

## CoRWM ACRONYM LIST

Note: This is a compilation of all the acronyms used in CoRWM reports and position papers. It is to be added to as necessary and used when drafting future reports and papers.

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| AECL  | Atomic Energy of Canada Ltd   |
| AGR   | advanced gas cooled reactor (A type of reactor with a graphite core, and uranium oxide fuel in steel cladding with a graphite sleeve.)                  |
| ALARA | as low as reasonably achievable   |
| ALARP | as low as reasonably practicable  |
| ALS   | Advanced Light Source (at University of California Berkeley, USA)   |
| Andra | French state-owned agency for radioactive waste management  |
| ANRE  | Agency for Natural Resources and Energy (Japan)   |
| APM   | adaptive phased management (of nuclear fuel, Canada)  |
| APS   | Advanced Photon Source (at Argonne National Laboratory, USA)  |
| ASCC  | atmosphere assisted stress corrosion cracking   |
| ASN   | French nuclear and radiological safety regulator  |
| AWE   | Atomic Weapons Establishment (at Aldermaston). (AWE plc is the company that runs Aldermaston and Burghfield under contract to the Ministry of Defence.) |
| BAT   | best available techniques   |
| BBSRC | Biotechnology and Biological Sciences Research Council  |
| BE    | British Energy  |
| BERR  | Department for Business, Enterprise and Regulatory Reform (now part of the Department for Business, Innovation and Skills)                              |
| BGS   | British Geological Survey   |
| BIS   | Department for Business, Innovation and Skills  |
| BNES  | British Nuclear Energy Society  |
| BNFL  | British Nuclear Fuels Ltd   |

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| BNG    | British Nuclear Group   |
| BNGSL  | British Nuclear Group Sellafield Ltd (now simply Sellafield Ltd)  |
| BPEO   | best practicable environmental option   |
| BRE    | Building Research Establishment   |
| BTC    | BNFL Technology Centre (now the Central Laboratory) at Sellafield   |
| BWR    | boiling water reactor   |
| CANDU  | Canadian deuterium uranium reactor (a reactor with natural uranium fuel and heavy water (deuterium oxide) as the moderator and coolant) |
| CASE   | Co-operative Award in Science and Engineering (scheme to support PhD research in UK)  |
| CEA    | Commissariat à l'Energie Atomique (French government-funded technological research organisation)  |
| CEGB   | Central Electricity Generating Board  |
| CEH    | Centre for Ecology and Hydrology (a NERC research centre)   |
| CIP    | COWAM in Practice (the latest phase of the COWAM project)   |
| CNE    | French national R&D evaluation commission   |
| CNRS   | French government-funded national centre for scientific research  |
| COGER  | Coordinating Group on Environmental Radioactivity (an informal NERC advisory group)   |
| COMARE | Committee on the Medical Aspects of Radiation in the Environment  |
| CoRWM  | Committee on Radioactive Waste Management   |
| CoSLA  | Consortium of Scottish Local Authorities  |
| COWAM  | Community Waste Management (an EU project)  |
| CPD    | Continuing professional development   |
| CRIEPI | Central Research Institute of the Electric Power Industry (Japan)   |
| CRR    | Centre for Radiochemistry Research (BNFL URA at Manchester university)  |
| CSR    | Comprehensive Spending Review   |

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| D&V     | demonstration and validation   |
| DBD     | deep borehole disposal   |
| DECC    | Department of Energy and Climate Change  |
| Defra   | Department for Environment, Food and Rural Affairs   |
| DFR     | Dounreay Fast Reactor or Directorate of Fisheries Research (part of MAFF)  |
| DfT     | Department for Transport   |
| DIAMOND | Decommissioning, Immobilisation and Management of Nuclear Wastes for Disposal (a consortium of universities carrying out research, funded by RCUK) |
| DIUS    | Department for Innovation, Universities and Skills (now part of the Department for Business, Innovation and Skills)                                |
| DOE     | Department of Energy (USA)   |
| DoE     | Department of the Environment (subsequently the Department for Environment, Transport and the Regions, DETR, then Defra)                           |
| DoENI   | Department of the Environment Northern Ireland   |
| DRP     | Direct Research Portfolio (the directly funded NDA research programme)   |
| DSSC    | disposal system safety case (being developed by NDA)   |
| DU      | depleted uranium   |
| EA      | Environment Agency, England and Wales  |
| EARP    | Enhanced Actinide Removal Plant (at Sellafield)  |
| EBS     | engineered barrier system  |
| EC      | European Commission  |
| EDF     | Electricité de France  |
| EDZ     | engineered disturbed zone  |
| EHS     | Environment and Heritage Service (of Northern Ireland, superseded by the Northern Ireland Environment Agency)                                      |
| EIA     | environmental impact assessment  |

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| EMUS  | Encapsulation of Metallic Uranium Steering Group (established by Sellafield Ltd)  |
| EPHH  | environmental pollution and human health (a NERC research theme)  |
| EPP2  | Environmental Permitting Programme, phase 2   |
| EPS   | Encapsulated Product Store (at Sellafield, there are three stores: EPS1, EPS2 and EPS3)                                     |
| EPSRC | Engineering and Physical Sciences Research Council  |
| ERSP  | Environmental Remediation Sciences Program (in the USA)   |
| ESRC  | Economic and Social Research Council  |
| ESRF  | European Synchrotron Radiation Facility (in Grenoble)   |
| EU    | European Union  |
| FHP   | fuel handling plant   |
| FP    | Framework Programme (of the EC)   |
| FSD   | Food Sciences Division (part of MAFF)   |
| FUD   | Research, development and demonstration programme (Sweden)  |
| FZD   | Forschungszentrum Dresden (federally-supported research centre, Germany)  |
| GBq   | gigabecquerel (a unit of radioactivity)   |
| GDF   | geological disposal facility  |
| GDIB  | Geological Disposal Implementation Board (a UK Government Group)  |
| GDRF  | Geological Disposal Research Forum (a group convened by NDA)  |
| GLEEP | Graphite Low Energy Experimental Pile (a research reactor at Harwell)   |
| GOCO  | Government owned, contractor operated   |
| GRA   | Guidance on Requirements for Authorisation (for disposal of solid radioactive wastes, produced by the environment agencies) |
| HAW   | higher activity waste   |
| HAWS  | Higher Activity Wastes Strategy   |

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| HLW   | high level waste   |
| HMIP  | Her Majesty's Inspectorate of Pollution (a predecessor of the Environment Agency)                    |
| HPA   | Health Protection Agency   |
| HSE   | Health and Safety Executive  |
| IAEA  | International Atomic Energy Agency (a United Nations agency)   |
| ILL   | Institut Laue Langevin   |
| ILW   | intermediate level waste   |
| INE   | Institut für Nukleare Entsorgung (federally-supported research centre at Karlsruhe, Germany)         |
| IOMMM | Institute of Materials, Minerals and Mining  |
| IoP   | Institute of Physics   |
| IPC   | Infrastructure Planning Commission   |
| IPSE  | Institute for Particle Science and Engineering (BNFL URA at Leeds University)                        |
| IRSN  | Independent French agency that advises the regulator on radiological and nuclear safety              |
| ISL   | Immobilisation Science Laboratory (BNFL URA at Sheffield University)                                 |
| ITE   | Institute for Terrestrial Ecology  |
| ITRG  | Independent Technical Review Group (Canada)  |
| ITU   | European Institut für TransUranium elements (Karlsruhe, Germany)                                     |
| IVO   | Finnish nuclear power company  |
| JAEA  | Japanese Atomic Energy Authority   |
| JRC   | Joint Research Centre (of the EU)  |
| kg    | kilogramme   |
| KNOO  | Keeping the Nuclear Option Open (a consortium of universities carrying out research, funded by RCUK) |

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| KTA            | Knowledge Transfer Account (an EPSRC funding scheme to encourage knowledge transfer from universities to industry) |
| LGA            | Local Government Association   |
| LLW            | low level waste  |
| LLWR           | Low Level Waste Repository (near Drigg, in Cumbria)  |
| LoA            | Letter of Arrangement (Group, advisor to EPSRC)  |
| LoC            | Letter of Compliance (previously Letter of Comfort)  |
| LPA            | Local Planning Authority   |
| LTP            | lifetime plan  |
| LWR            | light water reactor (a generic term, includes BWRs and PWRs)   |
| m              | metre  |
| m <sup>3</sup> | cubic metre  |
| M&O            | management and operations  |
| MAFF           | Ministry of Agriculture, Fisheries and Food  |
| MEP            | Magnox Encapsulation Plant (at Sellafield)   |
| METI           | Ministry of Economy, Trade and Industry (Japan)  |
| MKG            | Swedish NGO office for nuclear waste review  |
| MoD            | Ministry of Defence  |
| MOP            | Magnox Operating Plan (the current plan is the eighth, MOP8)   |
| MOX            | mixed oxide fuel (contains uranium and plutonium oxides)   |
| MPC            | Materials Performance Centre (BNFL URA at Manchester University)   |
| MRC            | Medical Research Council   |
| MRP            | Magnox reprocessing plant (at Sellafield)  |
| MRWS           | Managing Radioactive Waste Safely (the UK programme for the management of higher activity wastes)                  |
| MVDS           | modular vault dry store  |

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| MWDF   | Minerals and Waste Development Framework   |
| NABIR  | Natural and Accelerated Bioremediation Program (in the USA)                                    |
| NAO    | National Audit Office  |
| NAS    | National Academy of Sciences (USA)   |
| NDA    | Nuclear Decommissioning Authority  |
| NDARB  | Nuclear Decommissioning Authority Research Board on nuclear decommissioning and waste clean-up |
| NEA    | Nuclear Energy Agency (part of the Organisation for Economic Cooperation and Development)      |
| NERC   | Natural Environment Research Council   |
| NFLA   | Nuclear Free Local Authorities   |
| NGO    | non-governmental organisation  |
| NIEA   | Northern Ireland Environment Agency  |
| NII    | Nuclear Installations Inspectorate (part of HSE)   |
| NNL    | National Nuclear Laboratory  |
| NPF    | National Planning Framework (in Scotland)  |
| NRI    | Nuclear Research Index (compiled by HSE)   |
| NSAN   | National Skills Academy Nuclear  |
| NSG    | National Stakeholder Group (for the NDA)   |
| NTEC   | Nuclear Training Education Consortium (UK)   |
| NuLeAF | Nuclear Legacy Advisory Forum  |
| NuSAC  | Nuclear Safety Advisory Committee (now disbanded, advised HSE)                                 |
| NUMO   | Nuclear Waste Management Organisation (Japan)  |
| NVQ    | National Vocational Qualification  |
| NWAT   | Nuclear Waste Assessment Team (within the Environment Agency)                                  |
| NWMO   | Nuclear Waste Management Organisation (Canada)   |

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| NWRF   | Nuclear Waste Research Forum (a group convened by the NDA)                                |
| NWTRB  | Nuclear Waste Technical Review Board (in the USA)   |
| OCNS   | Office of Civil Nuclear Security (part of HSE)  |
| OECD   | Organisation for Economic Cooperation and Development                                     |
| ONE    | Office of Nuclear Energy (part of USDOE)  |
| OPC    | ordinary Portland cement  |
| OPECST | French parliamentary commission on the assessment of scientific and technological studies |
| P&T    | partitioning and transmutation  |
| PACE   | French programme of nuclear research consortia  |
| PCG    | Programme Coordination Group (for the Research Councils)                                  |
| PCM    | Plutonium contaminated material   |
| PDRA   | post-doctoral research associate  |
| PFR    | Prototype Fast Reactor (at Dounreay)  |
| PIA    | Preliminary Investigation Area (Japan, for geological disposal facility)                  |
| PIP    | provisional implementation plan (the NDA plan for implementation of geological disposal)  |
| PNNL   | Pacific Northwest National Laboratory (USA)   |
| PVC    | polyvinylchloride   |
| PSE    | public and stakeholder engagement   |
| PWR    | pressurised water reactor   |
| RADREM | Radioactivity Research and Environment Monitoring (committee of UK DoE)                   |
| RAEng  | Royal Academy of Engineering  |
| RCEP   | Research Councils Energy Programme or Royal Commission on Environmental Pollution         |
| RCF    | rock characterisation facility  |

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| RCUK  | Research Councils UK (coordinating body for the various Research Councils)  |
| R&D   | research and development  |
| REPs  | Radioactive Substances Regulation Environmental Principles (for Environment Agency regulators)  |
| RS    | Royal Society   |
| RSC   | Royal Society of Chemistry  |
| RWIN  | Radioactive Waste Immobilisation Network  |
| RWMAC | Radioactive Waste Management Advisory Committee   |
| RWMC  | radioactive waste management case (a safety case for a proposed waste conditioning and packaging process) or Radioactive Waste Management funding and research Centre (Japan) |
| RWMD  | Radioactive Waste Management Directorate (of the NDA)   |
| SA    | sustainability appraisal  |
| SAC   | Scientific Advisory Committee (of RCUK)   |
| SAPs  | HSE's Safety Assessment Principles for Nuclear Facilities   |
| SDDG  | Strategy Development and Delivery Group (for the NDA, chaired by DECC)  |
| SEA   | strategic environmental assessment  |
| SED   | safety and environmental detriment (a scoring system used by the NDA to rank its facilities and sites in terms of hazard)   |
| SEPA  | Scottish Environment Protection Agency  |
| SF    | spent fuel  |
| SGHWR | Steam Generating Heavy Water Reactor (an experimental reactor at Winfrith)  |
| SISB  | Science and innovation strategy board (NERC advisory committee)   |
| SIXEP | Site Ion Exchange Plant (at Sellafield)   |
| SKB   | Swedish nuclear fuel and waste management company   |
| SKI   | Swedish nuclear power inspectorate (now part of SSM)  |

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| SLC     | site licence company (a company that runs an NDA site, under contract to the NDA, and holds the nuclear site licence) |
| SMS     | strategy management system (of the NDA)   |
| SNIFFER | Scotland and Northern Ireland Forum for Environmental Research  |
| SNWF    | Swedish Nuclear Waste Fund  |
| SRL     | Safety Reference Level (established by WENRA)   |
| SSC     | Sector Skills Council   |
| SSEB    | South of Scotland Electricity Board   |
| SSEC    | sub-surface exclusion criteria  |
| SSG     | Site Stakeholder Group (at NDA sites)   |
| SSI     | Swedish radiation protection authority (now part of SSM)  |
| SSM     | Swedish radiation safety authority (formed in 2008 by merger of SSI and SKI)  |
| SSP     | Site Security Plan  |
| SSRL    | Stanford Synchrotron Radiation Laboratory (USA)   |
| STFC    | Science and Technology Facilities Council   |
| STUK    | Finnish nuclear regulators  |
| TBuRD   | Technical Baseline and underpinning R&D Document (produced by each SLC for its sites)                                 |
| THCM    | thermal-hydrological-chemical-mechanical (coupled processes in the near-field of a GDF)                               |
| tHM     | Metric tonnes of heavy metal (uranium and plutonium)  |
| THORP   | Thermal Oxide Reprocessing Plant (at Sellafield)  |
| TMF     | Tails Management Facility (to be built at Urenco's Capenhurst site)   |
| TSB     | Technology Strategy Board (of BIS)  |
| TVO     | Finnish nuclear power company   |
| UCL     | Urenco Capenhurst Ltd   |

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| UKAEA | United Kingdom Atomic Energy Authority (now used only as an acronym, mainly as part of the names of the organisations into which the Authority was split) |
| UKSO  | United Kingdom Safeguards Office (part of HSE)  |
| URA   | University research alliance (e.g. with BNFL)   |
| URL   | underground research laboratory (and underground rock laboratory)   |
| USDOE | United States Department of Energy  |
| USGS  | United States Geological Survey   |
| USNRC | United States Nuclear Regulatory Commission   |
| VPS   | Vitrified Product Store (at Sellafield)   |
| WAG   | Welsh Assembly Government   |
| WAGR  | Windscale AGR (an experimental reactor at Sellafield)   |
| WANO  | World Association of Nuclear Operators  |
| WENRA | Western European Nuclear Regulators Association   |
| WIPP  | Waste Isolation Pilot Plant (a geological disposal facility in New Mexico, USA)   |
| WMO   | waste management organisation   |
| WMSG  | Waste Management Steering Group (a UK Government Group)   |
| WMT   | Waste Management Technology (company based at Winfrith)   |
| ZEBRA | Zero Energy Breeder Reactor Assembly (an experimental facility at Winfrith, now dismantled)   |