

Issue Date: June 2010	UNCLASSIFIED DIRECTORATE MAJOR PROJECT	Issue No: FINAL 2
Glossary	Hydrus Defence Exempt Environmental Appraisal Volume I	Reference: MER-110-012989

GLOSSARY

Term/Acronym/Abbreviation	Definition
µg.m-3	Micrograms per metre cubed.
AADT	Annual Average Daily Traffic.
AC	Assessment Criteria – in relation to ground conditions
AERMIC	American Meteorological Society/ Environmental protection Agency Regulatory Model Improvement Committee
AGL	Above Ground Level
ALARP	As Low as Reasonably Practicable
ALG	Association of London Government
AOD	Above Ordnance Datum
AONB	Area of Outstanding Natural Beauty
APPLE	Air Pollution Planning and the Local Environment
AQAP	Air Quality Action Plan
AQMA	Air Quality Management Area.
AQRA	Air Quality Risk Assessment
AQS	The Air Quality Strategy for England, Scotland, Wales and Northern Ireland
ATC	Automatic Traffic Count
AURN	Automatic urban rural network – related to air quality monitoring
AWE	Atomic Weapons Establishment.
AWRE	Atomic Weapons Research Establishment (former name of AWE).
BAP	Biodiversity Action Plan
BBOWT	Berkshire, Buckinghamshire and Oxfordshire Wildlife Trust
BDBC	Basingstoke & Deane Borough Council
Berkshire JSPU	Berkshire Joint Strategic Planning Unit
Berm	A narrow embankment (also see Bund)
BGL	Below Ground Level
BGS	British Geological Survey
BoCC	Birds of Conservation Concern.
BPEO	Best Practicable Environmental Option
BPG	Best Practicable Guide
BPM	Best Practicable Means – requirement set out under Section 72 of CoPA
Bq/g	Becquerels per gram - Units of measurement used to express the activity of a radionuclide and the dose of ionizing radiation
BREEAM	Building Research Establishment Environmental Assessment Method
BS/BSi	British Standard/British Standards Institute
BTEX	Benzene, Toluene, Ethylbenzene and Xylenes
Bund	An embankment of mounded earth
CA	Conservation Area – area designated for its historic or architectural merit
CACE	Central Area Construction Enclave
CAFE	Clean Air For Europe
Catenary	Curved cable hanging between two supports (part of Lightning Protection System)
CDM	Construction Design & Management Regulations 2007
CEMP	Construction Environmental Management Plan
CFA	Continuous flight auger piling system
CH ₄	Methane

Term/Acronym/Abbreviation	Definition
CHP	Combined Heat and Power
CIRIA	Construction Industry Research and Information Association
CLEA	Contaminated Land Exposure Assessment
CO	Carbon monoxide
CO ₂	Carbon dioxide
COBA	Cost Benefit Analysis – related to transport assessment
COC	Contaminants of Concern – related to ground conditions
CoCP	Code of Construction Practice
CoPA	Control of Pollution Act 1974
COSHH	Control of Substances Harmful to Health – related to ground contamination
CRTN	Calculation of Road Traffic Noise
CSCS	Constructions Skills Certification Scheme
CSM	Conceptual Site Model – used to evaluate potential effects of development on ground conditions
CSR	Construction Site Rules
Cumulative Impacts	Impacts that result from incremental changes caused by other past, present or reasonably foreseeable actions
CWS	County Wildlife Site
DA	Detailed Assessment – related to air quality
dB	Decibels – unit in which noise is measured.
DCLG	Department of Communities and Local Government
DE	Defence Estates
DEEA	Defence Exempt Environmental Appraisal – Report that is an environmental assessment for Proposed Development that is exempt from the EIA Regulations in the interest of national security.
DETR	Department of the Environment, Transport and the Regions
DMRB	Design Manual for Roads and Bridges – guidance produced by the Highways Agency.
DNSR	Defence Nuclear Safety Regulator
DoE	Department of Environment – former Government office responsible for environmental matters
DOSG	Ministry of Defence Ordnance Safety Group.
DPD	Development Plan Documents – collective name given to documents that form the Local Development Framework
DREAM	Defence Related Environmental Assessment Methodology
DRO	Diesel Range Organics – related to ground conditions
DWS	Drinking Water Standards
EAL	Environmental Assessment ILevel – related to air quality
EH	English Heritage
Environmental assessment	A technique for ensuring that the likely effects of new development on the environment are fully understood and taken into account before the

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	development is allowed to go ahead. It enables the importance of the predicted effects, and the scope for modifying or mitigating them, to be properly evaluated by the decision-making authority.
Environmental Impact	The total effect of any operation on the surrounding environment.
EPA	Environmental Protection Act 1990
EPAQS	Expert Panel on Air Quality Standards
EPR	Environmental Permitting Regulation – in relation to air quality
EPS	European Protected Species
EQS	Environmental Quality Standards
ESH	Environment, Safety and Health – in relation to air quality
EU	European Union
Executive Summary	Concise summary of the DEEA including the development proposal, alternatives, environmental impacts and mitigation measures.
Extensive Green Roof	A type of green or living roof that specifically uses hardy, drought-tolerant plant species such as Sedum growing in a shallow substrate. Green roofs serve to slow down the rate of rainwater run-off thus providing surface water drainage benefits. They can also improve building insulation properties, whilst enhancing biodiversity and visual amenity (the appearance of the drought-tolerant plants tends to vary through shades of green to brown/buff).
FCS	Favourable Conservation Status.
FFL	Finished Floor Level
FGD	Flue-gas desulphurisation
Flood Zone	Areas at risk of flooding and categorised as low, medium and high risk in accordance with PPG25.
FRA	Flood Risk Assessment.
g.s ⁻¹	Grams per second
GAC	Generic assessment criteria
GCTR	Ground Conditions Technical Report
GFA	Gross Floor Area
GIS	Geographical Information System
GLA	Greater London Authority
GLVIA	Guidelines for Landscape and Visual Impact Assessment – published by the Landscape Institute and IEMA
GOMMS	Guidance on the Methodology for Multi-Modal Studies.
GQA	General Quality Assessment – in relation to water resources
Green Roof	See Extensive Green Roof
GVA	Gross Value Added – in relation to socio economics
HBIC	Hampshire Biodiversity Information Centre
HCl	Hydrogen chloride
HDV	Heavy Duty Vehicle
HECZ	Historic Environment Character Zone
HEFF	Development proposed by AWE on

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	Aldermaston site that was subject to an Defence Exempt Environmental Appraisal that has been granted planning consent.
HEPA	High Efficiency Particulate Air
HF	Hydrogen fluoride
HGV	Heavy Goods Vehicle
HMSO	Her Majesty's Stationery office (now The Stationery Office (TSO)).
HRF	Hydrodynamics Research Facility – former name of the Hydrus project
HSE	Health and Safety Executive
HVAC	Heating, Ventilation and Air Conditioning
Hz	Hertz – unit in which frequency is measured.
IEA	Institute of Environmental Assessment – former name of IEMA
IEMA	Institute of Environmental Management and Assessment – chartered institute for environmental professionals.
IUCN	International Union for Conservation of Nature
IVA	Induction Voltage Adder
JNCC	Joint Nature Conservation Committee
km	Kilometre(s)
km ²	Square kilometres
L ₁₀ /LA ₁₀	The noise level exceeded for 10% of the measurement time.
LA90,T	The A weighted noise level exceeded for 90% of the specified measurement period. (T) in B84142:1990. It is used to define background noise level.
LAFN T	Percentile levels: The level of A-weighted noise exceeded for N5 of the measurement time. LAF90, T is often used as a measure of background noise in many standards and guidelines. The FAF90, T parameter would therefore represent the level exceeded for 90% of the measurement period, T. Likewise the LAF10, T would indicate the level exceeded for 10% of the measurement period, T indicating the higher noise levels measured.
LAQM	Local Air Quality Management
LBPG	London Best Practice Guidelines
LDD	Local Development Document – constituent part of a Local Development Framework (LDF), delivers spatial planning strategy for a local planning authority area.
LDF	Local Development Framework – portfolio of documents containing the Local Development Documents (LDDs) which collectively deliver the spatial planning strategy for a local planning authority area.
LDV	Light Duty Vehicle

Term/Acronym/Abbreviation	Definition
L _{eq} /L _{Aeq}	Equivalent Continuous Sound Pressure Level - An index for assessment for overall noise exposure is the equivalent continuous sound level, Leq. This is a notional steady level, which would, over a given period of time, deliver the same sound energy as the actual time varying sound over the same period. Hence fluctuating levels can be described in terms of a single figure level.
Lev	Local Exhaust Ventilation
LGV	Light Goods Vehicle
Listed Building	Buildings of special architectural or historic interest listed by the Secretary of State for Culture, Media and Sport on the advice of English Heritage. Buildings are graded to indicate their relative importance.
LNR	Local Nature Reserve
LPA	Local Planning Authority.
LPS	Lightning Protection System
LT	Long term in relation to air quality and noise
LTP	Local Transport Plan.
LWS	Local Wildlife Site
m	Metre
m ²	Square metres
m ³	Cubic metres
Made Ground	Soils or other material that has been deposited by man rather than natural processes, for example to make up ground levels.
MAGIC	Multi-Agency Geographical Information for the Countryside
mb	Millibars – unit of atmospheric pressure
MDL	Method Detection Limit – related to ground conditions
Medieval	Historic time period from AD1066-AD1485.
Mesolithic	Prehistoric time period from 12000-4000BC.
Mitigation measures	The measures put forward to prevent, reduce and where possible, offset any adverse effects on the environment.
mm/s	Millimetres per second
MoD	Ministry of Defence.
MPG	Minerals Planning Guidance Notes
ms ⁻¹	Metres per second
MTA	Modular Temporary Accommodation
Multiplier effect	Further economic activity (jobs, expenditure or income) associated with additional local income and local supplier purchasing.
N	North
NAQIA	National Air Quality Information Archive
NAQS	National Air Quality Strategy. The Environment Act 1995 required the Government to develop a National Air Quality Strategy. The Strategy, originally published in 1997, set challenging health based targets for eight main air pollutants. These are benzene; 1, 3-butadiene; carbon monoxide; lead; nitrogen dioxide; ozone; fine particles (PM10); and sulphur dioxide. The predominant source for most of these pollutants is road traffic, but industrial and domestic

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	sources are also major contributors.
NATA	New Approach to Transport Appraisal
NE (1)	Natural England
NE (2)	North East
Neolithic	Prehistoric time period from 4000-2000BC
NII	Nuclear Installations Inspectorate
NMR	National Monuments Record.
NNE	North North East
NNR	National Nature Reserve
NNW	North North West
NO	Nitric oxide
NO ₂	Nitrogen Dioxide, Road transport and the burning of fossil fuels for power are the main sources of Nitrogen Dioxide. In addition to being a green house gas it also contributes to photochemical smog formation. It is an irritant to the respiratory system.
NOA	New Office Accommodation – development proposed by AWE that has now been constructed.
NORM	Naturally occurring radioactive materials
NO _x	Nitrogen Oxides. NO _x is the generic term for a group of highly reactive gases, all of which contain nitrogen and oxygen in varying amounts. NO _x is typically comprised largely of nitric oxide (NO) and nitrogen dioxide (NO ₂). Many of the nitrogen oxides are colourless and odourless, although NO ₂ can often be seen as a reddish-brown layout over many urban areas when present alongside particulates. NO _x form when fuel is burned at high temperatures, as in a combustion process. Consequently, these emissions occur almost exclusively from the combustion of fossil fuels for industry and transport, and from the burning of biomass.
NRTF	National Road Traffic Forecast
NSCA	National Society for Clean Air, NSCA is the environmental protection charity that brings together organisation across the public, private and voluntary sectors to promote a balanced and innovative approach to understanding and solving environmental problems.
NSPA	Nuclear Storage and Processing Area
NSR	Noise Sensitive Receptor
NVC	National Vegetation Classification
ODPM	Office of the Deputy Prime Minister
OED	The Oxford English Dictionary
ONS	Office for National Statistics
PAH	Polycyclic aromatic hydrocarbons
Palaeolithic	Prehistoric time period from 450,000-12,000 BC.
Particulate Matter (PM)	Discrete particles in ambient air, sizes ranging between nanometres (nm, billionths of a metre) to tens of micrometers (µm, millionths of a metre).
PC	Process Contribution – in relation to air quality
PCPA	Planning and Compulsory Purchase Act 2004

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PEC	Predicted Environmental Contribution – in relation to air quality
PETIS	Preliminary Evaluation of the Transportation Implications of the SDCP.
PIA	Personal Injury Accident.
Planning Application	Documents submitted to the local planning authority to request permission for construction of a development.
Plc	Public Limited Company
PM ₁₀	Particulate matter with an (equivalent aerodynamic) diameter of ten microns or less.
PM _{2.5}	Particulate matter with an (equivalent aerodynamic) diameter of 2.5 microns or less.
PPC	Pollution Prevention and Control – Statutory requirements enacted by PPC Act 1999 and the PPC Regulations 2000.
PPG (1)	Planning Policy Guidance Notes – national planning policy documents, gradually being superceded by Planning Policy Statements (PPS).
PPG (2)	Pollution Prevention Guidance Notes – published by the Environment Agency
PPS	Planning Policy Statements – national planning policy documents, gradually replacing Planning Policy Guidance Notes (PPG).
PPV	Peak Particle Velocity
PREA	Project Register of Environmental Aspects – document(s) that summarise sensitive aspects to be considered during design and construction.
PRIME	Plume Rise Model Enhancements – in relation to air quality
PV	Photovoltaics. The process of converting light into electric energy.
QRA	Quantitive Risk Assessment – related to ground contamination
R&A	Review and Assessment (of local air quality).
R&D	Research and Development.
Ref.	Reference
Residual impacts	Those impacts of the development that cannot be mitigated or remain following implementation of mitigation proposals.
RPG	Regional Planning Guidance – now replaced by RSS
RPS Group Plc	Planning liaison, joint authors of the Environmental Appraisal.
RSA	Radioactive Substances Act 1993
RSPB	Royal Society for the Protection of Birds.
RSS	Regional Spatial Strategy – Strategic Planning Policy for a region that supercedes the former RPG
RTS	Regional Transport Strategy.
S	South
Saxon	Historical time period from AD410-AD1066.
SDCP	Site Development Context Plan – document prepared to provide guidance for the future development of AWE Aldermaston and Burghfield.

Term/Acronym/Abbreviation	Definition
SDiG	Sustainable Development in Government
SDP	Site Development Plan – published by AWE and involved the consolidation of the majority of AWE's activities at Aldermaston.
SE	South East
SEEDA	South East of England Development Agency
SEL	Sound Exposure Level
SFRA	Strategic Flood Risk Assessment
SGV	Soil Guideline Values
SINC	Sites of Importance for Nature Conservation
SM	Scheduled Monument – related to archaeology and heritage
SMR	Sites and Monuments Record
SOGE	Sustainable Operations on the Government Estate
SPG/SPD	Supplementary Planning Guidance/Document – expands on and supports planning policy.
SPR	Source-Pathway-Receptor – related to ground conditions
SPZ	Source Protection Zone – areas defined for the protection of aquifer water quality
SSAC	Site Specific Assessment Criteria (related to ground conditions)
SSoW	Safe System of Work – Approved methodologies adopted during construction and maintenance operations
SSSI	Site of Special Scientific Interest. The best sites for wildlife and geological features in England as designated under the Wildlife and Countryside Act 1981.
ST	Short Term – in relation to air quality and noise
Statutory Consultee	Groups or bodies that, by law, must be consulted as part of the planning application process.
SuDS	Sustainable Drainage Systems.
Sustainable Development	Development that meets the needs of the present generation without compromising the ability of future generations to meet their own needs.
SW	South West
SWC	Surface Water Control
SWL	Sound Power Level
TA	Transport Assessment. Prepared and submitted alongside planning applications for developments likely to have significant transport implications. For major proposals, assessments should illustrate the following: accessibility to the site by all modes, the likely modal split of journeys to and from the site and proposed measures to improve access by public transport, walking and cycling. Statutory plans produced by each borough which integrate strategic and local planning responsibilities through policies and proposals for the development and use of land in their area.

Term/Acronym/Abbreviation	Definition
Tardis-like	A thing which has a larger capacity than its outward appearance suggests; a building, etc., that is larger on the inside than it appears from the outside (OED, 2009)
TNx	Numbered Target Note.
TPO	Tree Preservation Order
TSO	The Stationery Office (formerly HMSO)
TVERC	Thames Valley Environmental Record Centre
µg.m ⁻²	Micrograms per cubic metre
UID	Unique Identification
UK	United Kingdom
ULSD	Ultra Low Sulphur Diesel
URS Corporation Ltd	Client Representative, EA Sign-off, joint authors of the Environmental Appraisal.
USA	Updating and Screening Assessment (related to Air Quality assessment).
UST	Underground storage tank
VDV	Vibration dose value
VER	Valued Ecological Receptor
VOC	Volatile organic compound
WBC	West Berkshire Council
WCA	Wildlife and Countryside Act 1981
WCC	Work Control Centre – site base for management of construction activities
WECE	West End Construction Enclave
WHO	World Health Organisation
ZVI/ZTV	Zone of Visual Influence/Zone of Theoretical Visibility – the potential geographical extent from which development may be seen.