

HPC COMPANY DOCUMENT

HINKLEY POINT C MATERIAL CHANGE APPLICATION - PRELIMINARY ENVIRONMENTAL INFORMATION REPORT – GLOSSARY AND ABBREVIATIONS

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GLOSSARY

Term	Definition
Acoustic Fish Deterrent system	The intention was to use sound to repel hearing-sensitive fish as well as moderately hearing-sensitive fish from the Cooling Water system intake head.
As Low As Reasonably Practicable	Term used by the Office for Nuclear Regulation and the Health Safety Executive to ensure risks to workers and members of the public from all risks and hazards are mitigated.
Aspect	Factors to be scoped out of or into an EIA for a project including those factors identified in Regulation 5(2) of <i>The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017</i> .
Best Available Technique	Vehicle by which the Environment Agency meets the requirements of the International Basic Safety Standards to keep radiation doses to the public and environment As Low As Reasonably Practicable.
Compensation	A package of compensatory measures that will ensure that the overall coherence of the National Sites Network is protected.
Consultation Response	The complete/full response received from consultees during formal stages of consultation.
Cumulative effects	Effects that arise from the combined impacts of a number of different projects, in combination with the proposed development, on a receptor (i.e. the proposed changes on-site and off-site with other projects).
Decommissioning phase	The final phase in the life cycle of a nuclear power station covering all activities from shutdown and removal of fissile material to environmental restoration of the site.
Development Consent Order	A DCO is the form by which the relevant Secretary of State grants consent for development applied for under the Planning Act 2008.
Drainage Gallery	The level to which the groundwater level will recover following cessation of construction dewatering as currently approved within DCO.
Environment Agency	A Government Agency responsible for matters relating to contaminated land, waste management, permitted radioactive discharges, surface water drainage and discharges, flood risk management and water quality in England. Its stated aims are to protect and improve the environment, and to promote sustainable development.

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Term	Definition
Environmental Impact Assessment	A method or procedure for predicting the effects on the environment of a proposal, either for an individual project or a higher-level “strategy” (a policy, plan or programme), with the aim of taking account of these effects in decision-making.
Environmental Statement	The document reporting the process and outcomes of the EIA.
Geological Disposal	A long-term management option involving the emplacement of radioactive waste in an engineered underground Geological Disposal Facility (GDF) where the geology (rock structure) provides a barrier against the escape of radioactivity and there is no intention to retrieve the waste once the facility is closed.
Habitats Regulations Assessment	A Habitats Regulations Assessment (HRA) refers to the assessment which must be undertaken in accordance with the Conservation of Habitats and Species Regulations 2017 (as amended) to determine if a project may affect the protected features of a habitat's site before deciding whether to undertake, permit or authorise it.
Hinkley Point A	A Magnox Generation Power Station. Commissioned in 1965 and closed in 2000. Currently being decommissioned which is expected to be completed around 2100.
Hinkley Point B	An Advanced Gas Cooled Reactor (AGR) commissioned in 1976. The current scheduled closure date is expected to be around July 2022.
Hinkley Point C	The proposed new nuclear power station.
Hinkley Point C Project	The overall proposed development of the Hinkley Point C new nuclear power station and all on-site and off-site associated development.
Hinkley Point C Site	The Hinkley Point C Site comprises land required for the permanent power station development together with construction areas. The total land take is 175.2 Ha.
Impingement	Impingement is the process by which fish may be drawn into the cooling water system, often due to being caught in intake velocities which are too high to allow them to escape.
In-combination effects	Effects that arise from the combined action of multiple effects from the same project (i.e. the proposed changes on-site and off-site) on a single receptor.
Institute of Environmental Management and Assessment	Non-profit membership organisation established to promote best practice standards in environmental management, auditing and assessment.

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Term	Definition
Interim Spent Fuel Store	Building designed to store spent fuel and waste generated by the operation of nuclear reactors.
Kelp forest	Kelp forests create multi-dimensional habitats from the intertidal to subtidal zones, made up of several different layers: the holdfast, the stipe, and the frond. Each of these support organisms living directly on the kelp, as well as acting as habitat / refuge for species in the wider community. Kelp acts as a habitat engineer by modifying the local physical environment, with >1,800 species of plants and animals recorded within UK kelp forests, ranging from echinoderms, molluscs, crabs, lobsters and many fish species.
Local Planning Authority	The level of government responsible for planning within a given administrative area.
Long list of other projects	The long-list includes approved major planning applications and planning allocations (within development plans) referred to as 'other projects'.
Major planning application	Major planning applications are defined as applications for the following types of development: the winning and working of minerals or the use of land for mineral-working deposits; waste development; the provision of dwellinghouses where the number of dwellinghouses to be provided is 10 or more, or the development is to be carried out on a site having an area of 0.5 ha or more and it is not known whether the development provides dwellinghouses of 10 or more; the provision of a building or buildings where the floor space to be created by the development is 1,000 square metres or more; or development carried out on a site having an area of 1 ha or more.
Material change	An application to change a development consent order under paragraph 3(1) of Schedule 6 to the Planning Act 2008.
Meteorological Mast	Meteorological instrumentation mast to carry instruments to measure environmental conditions such as wind speed, wind direction and air temperature.
Natural England	A Government Agency promoting the conservation of England's wildlife and natural features and is responsible for designating National Nature Reserves, identifying Sites of Special Scientific Interest, and for advising a wide range of bodies and individuals including the Government on matters affecting nature conservation.
NNB Generation Company (HPC) Limited (NNB)	NNB Generation Company (HPC) Limited, part of EDF Energy, is the company that is the licensee for the development at Hinkley Point C.
Non-material change	An application to change a development consent order under paragraph 2(1) of Schedule 6 to the Planning Act 2008.
Order Limits	The limits shown on the works plans within which the authorised project may be carried out.

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Term	Definition
Oyster bed	Native oyster beds provide valuable ecosystem services, including enhanced fish production. Primarily found in shallow waters up to 10m, European oyster (<i>Ostrea edulis</i>) are habitat engineers, forming densely populated reefs (consisting of both live oysters and dead oyster shells), the structure of which supports a wide variety of flora and fauna. This can include high numbers of fish species, such as butterfish, five-bearded rockling and blenny. Atlantic cod and European sea bass are also associated with oyster bed habitats.
Planning allocation	An allocation refers to a location for development defined within a local or neighbourhood plan, often found in a local or neighbourhood plans policies map. They refer to housing, employment, community uses, mixed-use, agriculture, environmental, minerals and waste, infrastructure and all safeguarded sites. Safeguarded sites are also included in the definition of allocations.
Public right of Way	A Public Right of Way is a footpath or track over which the public have a right of access along a linear route.
Saltmarsh	Saltmarshes are accumulations of mud and sand which support meadows of salt tolerant vegetation. Saltmarshes are found in sheltered estuaries and bays around the coast. They are inundated by tidal waters twice every day are important habitats for plants and animals – birds, fish and invertebrates. Saltmarshes can also provide other benefits to mankind including recreation and wellbeing, flood and coastal defence, food provision and water quality improvement.
Scoping Opinion	A request for a formal opinion on the information supplied in a Scoping Report.
Scoping Report	The scoping report is produced prior to an ES to outline key issues associated with a project and helps to assist the relevant regulator in providing an EIA scoping opinion on the development proposals.
Seagrass bed	Seagrass ecosystems are well recognised as important nursery habitats, where juvenile and larval fish species can avoid predation and feed. In the UK and wider North Atlantic, the dominant seagrass species is the eelgrass <i>Zostera marina</i> . Within the Severn Estuary and Bristol Channel, <i>Z. marina</i> and the dwarf eelgrass <i>Z. noltei</i> are present in the subtidal and intertidal areas. As well as providing refuge for juvenile fish and invertebrates, seagrass can also provide spawning grounds for species including herring.
Spent fuel	Spent fuel is nuclear fuel that has been irradiated in and permanently removed from a reactor core. Due to the long half-life of a proportion of the radionuclides contained within spent fuel, its level of activity (and the fact this means it produces heat for long periods) and its fissile content (meaning it has the potential to be recycled and also raises security issues) means that the management of spent fuel is an important issue for the design of any new nuclear power station. The characteristics of spent fuel mean that it is management in a similar way to High Level Radioactive Waste (HLW) due to the high activity and heat generating characteristics.
The 2015 Amendment Order	The Hinkley Point C (Nuclear Generating Station) (Amendment) Order 2015

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Term	Definition
The 2017 Amendment Order	The Hinkley Point C (Nuclear Generating Station) (Amendment) Order 2017
The 2018 Amendment Order	The Hinkley Point C (Nuclear Generating Station) (Amendment) Order 2018
The 2021 Amendment Order	The Hinkley Point C (Nuclear Generating Station) (Amendment) Order 2021
Type 1 Visualisations	The Type 1 Visualisations comprise simple, annotated photographic illustrations of the proposed changes on-site.
Weir	A weir is a flow control structure that is usually formed of a low level barrier across the width of a river. It is usually constructed from reinforced concrete or masonry and there are several typical forms they usually exhibit, but they will usually incorporate an apron, a weir crest and may also incorporate wingwalls/ headwall structures. Weirs are used to control river levels, and usually results in increased water levels upstream and a controlled discharge downstream. They are common throughout British waterways and have historically been used for flood prevention, flow measurement and navigation reasons.
Zone of Theoretical Visibility	Digital representation of earth surface used in determining the visibility of an object (development or study area) in the surrounding landscape.
Zones of Influence	Area within which there are likely to be perceptible change or influence, based on the respective Aspect study areas.

ABBREVIATIONS

Abbreviation	Term
AADT	Annual Average Daily Traffic
AEP	Annual Exceedance Probability
AFD	Acoustic Fish Deterrent
ALARP	As Low As Reasonably Practicable
ALC	Agricultural Land Classification
AMMP	Adaptive Monitoring and Management Plan
AMMPAG	Adaptive Monitoring and Management Plan Advisory Group
AOD	Above Ordnance Datum
AONB	Area of Outstanding Natural Beauty
AQMA	Air Quality Management Area
AQO	Air Quality Objective
BAT	Best Available Technique
BDAW	Built Development Area West
BDAE	Built Development Area East
BEIS	Department for Business, Energy and Industrial Strategy
BGS	British Geological Survey
BMV	Best and Most Versatile

Abbreviation	Term
BoCC	Birds of Conservation Concern
CDL	Committed development log
CEA	Cumulative Effects Assessment
Cefas	Centre for Environment, Fisheries and Aquaculture Science
CEMP	Construction Environmental Management Plan
CEP	Compensation Expert Panel
CH₄	Methane
CIEEM	Chartered Institute of Ecology and Environmental Management
CIMP	Comprehensive Impingement Monitoring Programme
CO	Carbon Monoxide
CO₂	Carbon Dioxide
CO_{2e}	Carbon Dioxide Equivalent
CROW	Countryside and Rights of Way Act 2000
CRTN	Calculation of Road Traffic Noise
CTMP	Construction Traffic Management Plan
CWS	Cooling Water System
CWTP	Construction Workforce Travel Plan
DCLG	Department for Communities and Local Government
DCO	Development Consent Order

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Abbreviation	Term
DEFRA	Department for Environment, Food and Rural Affairs
DfT	Department for Transport
DLUHC	Department for Levelling Up, Housing and Communities
DMS	Delivery Management System
DoW:CoP	The Definition of Waste: Development Industry Code of Practice
EA	Environment Agency
EAV	Equivalent Adult Value
EEA	European Economic Area
EIA	Environmental Impact Assessment
EIADR	Environmental Impact Assessment for Decommissioning
ELWL	Extreme Low Water Level
EoG	End of Generation
EPSM	European Protected Species Mitigation
EPUK	Environmental Protection UK
EQS	Environmental Quality Standard
ES	Environmental Statement
FRR	Fish Recovery and Return
GCN	Great Crested Newt
GCER	Gloucestershire Centre for Environmental Records
GDF	Geological Disposal Facility
GHG	Greenhouse Gas

Abbreviation	Term
GI	Ground Investigation
GLVIA	Guidelines for Landscape and Visual Impact Assessment
GVA	Gross Value Added
GWDTE	Groundwater Dependent Terrestrial Ecosystems
GWP	Global Warming Potential
Ha	Hectares
HGV	Heavy Goods Vehicle
HLH	Hinkley Logistics Hub
HLSF	High Level Safety Function
HMWB	Heavily Modified Water Body
HPC	Hinkley Point C
HPI	Habitats of Principal Importance
Hz	Hertz
HRA	Habitats Regulations Assessment
HSE	Health Safety Executive
IAQM	Institute of Air Quality Management
ICES	International Council for Exploration of the Sea
IEMA	Institute of Environmental Management and Assessment
IMA	Incident Management Area
INNS	Invasive Non-Native Species
IROPI	Imperative Reasons of Over-riding Public Interest
ISFS	Interim Spent Fuel Store

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Abbreviation	Term
IUCN	International Union for Conservation of Nature
kV	Kilovolt
LAQM	Local Air Quality Management
LCA	Landscape Character Area
LCRM	Land Contamination Risk Management
LCT	Landscape Character Type
LDWR	Long-Distance Walking Route
LGV	Light Goods Vehicle
LIDAR	Light Detection and Ranging
LLCA	Local Landscape Character Area
LNR	Local Nature Reserve
LOAEL	Lowest Observed Adverse Effect Level
LPA	Local Planning Authority
LSCA	Local Seascape Character Area
LSE	Likely Significant Effect
LVIA	Landscape and Visual Impact Assessment
LVSE	Low Velocity Side Entrances
LWS	Local Wildlife Site
MADA	Multi-Attribute Decision Analysis
MCCA	Marine and Coastal Access Act 2009
MCZ	Marine Conservation Zone
MEH	Mechanical, Electrical, Heating and Ventilation

Abbreviation	Term
MHWS	Mean High Water Springs
MMO	Marine Management Organisation
MSA	Mineral Safeguarding Area
N ₂ O	Nitrous Oxide
NCA	National Character Area
NE	Natural England
NERC	Natural Environment and Rural Communities Act 2006
NHBC	National House Building Council
NHLE	National Heritage List for England
NNR	National Nature Reserve
NO ₂	Nitrogen Dioxide
NPPF	National Planning Policy Framework
NPS	National Policy Statement
NRW	Natural Resources Wales
NSIP	Nationally Significant Infrastructure Project
ONR	Office for Nuclear Regulation
OS	Ordnance Survey
PEIR	Preliminary Environmental Information Report
PINS	Planning Inspectorate
PPO	Public Path Order
PRoW	Public Right of Way
PWS	Private Water Supply

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Abbreviation	Term
RIMP	Routine Impingement Monitoring Programme
ROV	Remotely Operated Vehicle
SAC	Special Area of Conservation
SERC	Somerset Environmental Records Centre
SFIRF	Spent Fuel Inspection and Repackaging Facility
SLP	Strategic and Local Plan
SO₂	Sulphur Dioxide
SOAEL	Significant Observed Adverse Effect Level
SODAR	Sonic Detection and Ranging
SOLAS	Safety of Life at Sea
SPA	Special Protection Area
SPI	Species of Principal Importance
SPZ	Source Protection Zone
SRN	Strategic Road Network
SSSI	Site of Special Scientific Interest
TA	Transport Assessment
TCPA	Town and Country Planning Act
TIMP	Traffic Incident Management Plan
TRG	Transport Review Group
TRP	Transport Review Group
UK-AIR	UK Air Information Resource
UKCP18	UK Climate Projections 2018

Abbreviation	Term
UKHab	UK Habitat Classification
UKTAG	The UK Technical Advisory Group
UN	United Nations
UNCLOS	United Nations Convention on the Law of the Sea 1982
VP	Viewpoints
WCA	Wildlife and Countryside Act 1981
WCHR	Walking, Cycling and Horse Riding
WDA	Water Discharge Activity
WeBS	Wetland Bird Survey
WFD	Water Framework Directive
WMO	World Meteorological Organization
ZoI	Zones of Influence
ZTV	Zone of Theoretical Visibility