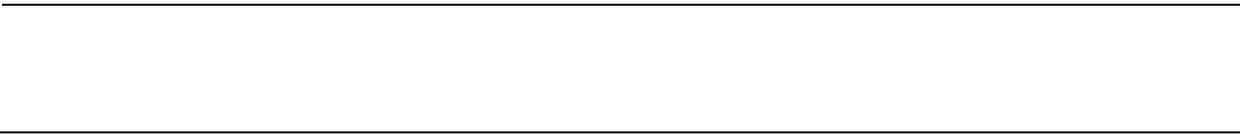




HORIZON

NUCLEAR POWER

Nuclear Site Licence Application – Glossary



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Contents

1 Purpose of the Nuclear Site Licence Application Glossary 1

2 Glossary of Terms and Definitions 1

List of Tables

Table 2.1 Glossary of Terms and Definitions 1

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1 Purpose of the Nuclear Site Licence Application Glossary

1. Horizon Nuclear Power Wylfa Limited (referred to as Horizon unless otherwise stated) has produced a glossary of terms and definitions to ensure important terms are used consistently throughout the organisation and to ensure readers understand what the terms mean. Each Site Licence Application (SLA) document contains a list of acronyms and abbreviations which spell out in full each acronym or abbreviation used within the document - they do not give a definition of the term to explain its meaning.
2. This Glossary should be used as a reference document as it provides the full definition of each defined term used within the SLA. It should be noted that whilst the definitions provided have been agreed for use within Horizon, they do not necessarily fully align with those of external organisations¹.

2 Glossary of Terms and Definitions

Table 2.1 Glossary of Terms and Definitions

Acronym or Abbreviation	Term	Definition
	Adoption	Horizon's inclusion, in a Wylfa Newydd major submission, of Generic Design Assessment (GDA) Level 1 and 2 material following issue of Design Acceptance Confirmation and Statement of Design Acceptability. The GDA Level 1 and 2 material will have been subject to a Design Authority review to demonstrate an adequate understanding of the material with regards to the requirements of the developing Wylfa Newydd Pre-Construction Safety Report, Best Available Techniques Case and other Wylfa Newydd major submissions.
ABWR	Advanced Boiling Water Reactor	<p>The ABWR is a third generation evolution of the Boiling Water Reactor (BWR) design. The ABWR was developed in the USA and Japan in the 1980s, as an evolution of earlier BWR designs.</p> <p>The major developments featured in the ABWR design compared to that of earlier BWRs include: use of reactor internal pumps, allowing deletion of recirculation pipework external to the reactor pressure vessel; fine motion control rod drive systems; advanced digital instrumentation and control systems; re-designed containment and emergency core cooling systems.</p> <p>Horizon will use the UK ABWR design provided by Hitachi-GE Nuclear Energy, Ltd. which is a region-specific derivation of the generic ABWR design currently licensed in Japan, Taiwan and the USA.</p>
AGR	Advanced Gas-cooled Reactor	A type of nuclear reactor that is fuelled by uranium dioxide and uses carbon dioxide as the coolant and graphite as the moderator.

¹ Note that any references to legislation and guidance in the Site Licence Application Glossary includes such legislation/guidance as exists at the date of this Glossary.

Acronym or Abbreviation	Term	Definition
	Agreement	<p>An Agreement is one of the six regulatory powers written into the Licence Conditions. These powers are normally referred to as “Primary Powers”.</p> <p>An Agreement issued by the Office for Nuclear Regulation (ONR) allows a Licensee to proceed with an agreed course of action. For example, Licence Condition 30 Periodic Shutdown enables the ONR to agree the extension of a plant’s operating period.</p>
	Applicant	The Applicant is Horizon Nuclear Power Wylfa Limited.
	Application	The Application made to the Office for Nuclear Regulation for the Nuclear Site Licence.
ASQEP	Appointed Suitably Qualified and Experienced Person	Required to be appointed in writing under particular legislation or Horizon procedure. Appointed SQEP Roles form part of Horizon’s Nuclear Baseline. A Duly Authorised Person under Licence Condition 12 (Duly Authorised and SQEP) is an example of an Appointed SQEP.
	Approval	<p>An Approval is one of the six regulatory powers written into the Licence Conditions. These powers are normally referred to as “Primary Powers”.</p> <p>An Approval can be used to freeze a Licensee’s arrangements and key elements of its safety management system, including the Terms of Reference of the Nuclear Safety Committee, Operating Rules, Maintenance Schedule and the “place and manner” in which Radioactive Waste can be stored or accumulated.</p> <p>If the Office for Nuclear Regulation (ONR) so specifies, the Licensee is required to submit its arrangements to the ONR for Approval. Once approved, the arrangements cannot be changed without the ONR’s agreement, and the procedure itself must be carried out in accordance with the approved arrangements.</p>
	Articles of Association	The Articles of Association is one of the constitutional documents of a company which sets out the basic management and administrative structure of the company. The Articles of Association regulates the internal affairs of the company including, for example, the issue and transfer of shares, board and shareholder meetings, powers and duties of directors, dividends and borrowing powers etc. The Articles of Association is a public document open to inspection at Companies House. It effectively creates a special kind of contract between the company and each of its members in their capacity as members.
ALARP	As Low As Reasonably Practicable	<p>The legal requirement to demonstrate that all risks are reduced to ALARP.</p> <p>For a risk to be ALARP it must be demonstrated that the sacrifice (in time, trouble and cost) involved in reducing the risk further would be grossly disproportionate to the benefit gained. ALARP is equivalent to the concept of So Far As Is Reasonably Practicable (SFAIRP) as defined in health and safety legislation. As Low As Reasonably Achievable (ALARA) can be used in radiological and environmental protection and is equivalent to the concept of ALARP.</p>
	Associated Development	Development that supports delivery of the Power Station, for example highway improvements along the A5025, park and ride facilities for construction workers, at least one logistics centre and off-site temporary worker accommodation.

Acronym or Abbreviation	Term	Definition
AEC	Atomic Energy Council	The AEC is the sole authority within the Taiwanese Central Government directly overseeing atomic energy related affairs. The AEC's mission is two-fold: to develop and enforce regulations, and to conduct research and development of nuclear technology.
BOD	Basis of Design	Horizon's design requirements that the supplier will need to demonstrate that his product can meet.
BAT	Best Available Techniques	A demonstration that certain operations are conducted in the optimum manner, to prevent or minimise releases and limit the impact on the environment, taking a number of factors into account including technological advances, economic feasibility and time.
BAT Case	Best Available Techniques Case	The BAT Case summarises the claims, arguments and evidence that have been compiled to demonstrate that BAT has been applied throughout the design of the Wylfa Newydd Power Station.
	Board	The board of directors of Horizon Nuclear Power Wylfa Limited.
BWR	Boiling Water Reactor	A reactor design where water (used both as coolant and moderator) is allowed to boil in the core. The resulting steam is used to drive a turbine and electrical generator, thereby generating electricity.
BWROG	Boiling Water Reactors Owners' Group	The BWROG provides a forum, which allows its member utilities to maintain and improve plant safety, achieve higher plant reliability, minimise and share costs, facilitate regulatory interaction, and effectively apply limited technical resources for mutual resolution of issues applicable to two or more members.
BCR	Business Competence Role	Those roles which are required to deliver day-to-day business requirements but do not affect the Nuclear Baseline Areas.
	Business Development Operational Unit	The Business Development Operational Unit acts as an interface with Hitachi, Ltd., the Government of Japan and its associated institutions and organisations, and Her Majesty's Government. The unit critically assures that the organisation delivers to its specifications, including those of Wylfa Newydd Project's financial backers. The unit ultimately is responsible for ensuring that the project attracts and retains investors.
	Capability	Capability refers to the ability of Horizon to deliver an activity or outcome. Capability is provided by a distinct team, or collection of teams within the organisation who will have the people, processes and tools to deliver it.
CEO	Chief Executive Officer	The most senior executive officer in Horizon, with overall accountability for the day-to-day running of Horizon.
CEO Office Functional Unit	Chief Executive Officer Office Functional Unit	The CEO Office Functional Unit operates as an important conduit between Horizon and its owner. The unit also provides advice to the CEO and assists him in monitoring progress of key project activities to ensure he is kept up to date with the work of all the Operational and Functional Units.
CNC	Civil Nuclear Constabulary	The CNC are the armed police force responsible for the protection of civil nuclear sites and nuclear materials in England, Scotland and Wales.
	Cogent Skills	Cogent Skills is the UK's strategic body for skills in the science industries, including the nuclear industry, focusing on standards, qualifications and labour market intelligence. The National Skills Academy Nuclear is a subsidiary of Cogent Skills.

Acronym or Abbreviation	Term	Definition
COD	Commercial Operation Date	The completion of the warranty run as part of the commissioning tests, and with the plant running at power, signifies the start of commercial operations.
COD1	Commercial Operation Date for unit 1	See definition for Commercial Operation Date.
COD2	Commercial Operation Date for unit 2	See definition for Commercial Operation Date.
	Commissioned Operational Service	The period of time between the completion of the last Start Up Test and the receipt by Horizon of ONR's approval of the Pre Operational Safety Report, and precedes the generating unit entering Normal Operations. During Commissioned Operational Service the Power Station will operate up to and including 100% reactor power, and the reactor may be synchronised to the national grid and may be generating for commercial trading.
	Commissioning	The process during which plant components and systems, having been constructed or modified, are made operational and verified to be in accordance with design assumptions and to have met the appropriate safety criteria.
	Commissioning Phase	The third Lifecycle Phase starts with the release of the hold point for bringing first fuel on to site, marking the commencement of the Commissioning Phase of the Power Station. This phase will see completion of site construction activities of the Power Station, Nuclear Fuel being brought to site, first criticality, start-up commissioning, disposal of the first Radioactive Wastes from site, and completion of establishing the Capability to be a competent operator. Following successful completion of the commissioning activities for both units and release of the commencement of normal operations hold point, commencement of the Generation Phase will be enabled.
	Company Secretariat	The Company Secretary and other staff, from time to time, providing company secretarial services to Horizon.
	Company Secretary	The person registered at Companies House as the Company Secretary of a company from time to time.
	Competency	Competency refers to the proficiency of a role holder to deliver their duties, activities and responsibilities. Factors contributing to a person's competence include the person's prior experience, aptitudes, attitudes, behaviours, skills, training and qualifications.
CSA	Conceptual Security Arrangements	CSAs are the assessed security requirements that complement the safety assessment. The key focus of the security assessment will be to understand the areas of the installation that require protection and the measures that will be designed into the facility to form an integral part of the overall security infrastructure if the facility were to be built. A robust process for the identification of potential 'vital areas' underpins this process. The CSAs are developed into an integrated protection solution.
	Condition Owner	Responsible for ensuring that arrangements are developed and implemented to achieve Nuclear Site Licence (NSL) or Environmental Permit – Radioactive Substances Regulation (EP-RSR) Condition compliance in delivery of business activities and objectives. A Condition Owner may be responsible for one or more conditions in either the NSL or EP-RSR or both.

Acronym or Abbreviation	Term	Definition
	Consent	<p>Consent is one of the six regulatory powers written into the Licence Conditions. These powers are normally referred to as “Primary Powers”.</p> <p>Consent is required before the Licensee can carry out any activity which is specifically identified in the licence or for any other activities which the Office for Nuclear Regulation (ONR) may specify. For example, the ONR normally specifies that a Licensee shall ensure that when a plant is shut down in accordance with the requirements of its maintenance schedule it shall not be started up again without the Consent of the ONR. Before being granted a Consent the Licensee must satisfy the ONR that the proposed activity is supported by an adequate Safety Case and that adequate procedures to manage safety are in place.</p>
CDM	Construction (Design and Management) Regulations 2015	<p>The Construction (Design and Management) Regulations aim amongst other things, to improve health, safety and welfare in the construction industry by requiring organisations to:</p> <ul style="list-style-type: none"> • sensibly plan the work so the risks involved are managed from start to finish; • have the right people for the right job at the right time; • cooperate and coordinate work with others; • have the right information about the risks and how they are being managed; • communicate this information effectively to those who need to know; and • consult and engage with workers about the risks and how they are being managed.
	Construction Operational Unit	The Construction Operational Unit provides the functions for the development, procurement, and design and construction management of the Power Station.
	Construction Phase	The second Lifecycle Phase is focused on the undertaking of construction work that could, if inadequately conceived or executed, affect nuclear safety when the plant is operational. The construction activity within this phase is predominately considered to be nuclear safety related. The phase starts with the first irreversible structural concrete pour for the reinforced concrete base slab on the nuclear island, termed First Nuclear Concrete. The phase also includes the commencement of Construction and Pre Operational Testing, as part of the first stages of commissioning activities. This phase ends with release of the hold point for bringing first fuel on to site marking the commencement of the Commissioning Phase.
CSSP	Construction Site Security Plan	Horizon’s plan for managing security issues at the construction site, as approved and monitored by the Office for Nuclear Regulation. The CSSP will cover detailed measures to address identified threats to the site and those threats posed by activities on the construction site to a neighbouring operating nuclear site.
	Construction Testing	The first stage of Commissioning in which a series of tests will be conducted on components of the Wylfa Newydd Power Station. These tests will be carried out at the end of the Construction Phase.
	Contract for Difference	A long-term contract between a company that is wholly owned by the government and an electricity generator (or prospective electricity generator) that provides increased electricity price certainty to the electricity generator and various other protections.

Acronym or Abbreviation	Term	Definition
C&I	Control and Instrumentation	The design, development, installation, management and/or maintenance of equipment which is used to monitor and control engineering systems, machinery and processes.
COMAH	Control of Major Accident Hazards Regulations	An establishment having any dangerous substance present at or above a qualifying quantity (as stated in the regulations) is subject to the requirements of the COMAH regulations. There are two thresholds, known as lower tier and upper tier, which are used to determine the precise requirements that an establishment must satisfy.
	Core Capability	The knowledge, functional specialisms and resources that the Licensee should maintain within its own organisation to be able to remain in control of the nuclear safety, security, radiological environmental protection, and quality of its activities at all times.
	Corporate Affairs Functional Unit	The Corporate Affairs Functional Unit provides the corporate function of promoting and protecting Horizon's brand and managing the communication activity.
Corporate RPA Body	Corporate Radiation Protection Adviser Body	Horizon's Corporate Radiation Protection Adviser Body provides advice on radiation protection, to ensure compliance with the Ionising Radiations Regulations 1999.
Corporate RWA Body	Corporate Radioactive Waste Adviser Body	Horizon's Corporate Radioactive Waste Adviser Body provides advice on Radioactive Waste management and environmental radiation protection, to ensure compliance with the Environmental Permit - Radioactive Substances Regulation.
CAP	Corrective Action Programme	The mechanism for reporting and resolving any condition that has affected or could affect safety (nuclear and conventional), security and safeguards, health, environmental protection and quality to continually improve the organisation.
DWMP	Decommissioning and Waste Management Plan	The part of the Funded Decommissioning Programme that details the steps to be taken in relation to all technical matters including: (a) treatment, storage, transportation and disposal of hazardous material during the operation of a Nuclear Installation on the site; (b) decommissioning of any relevant Nuclear Installation and the cleaning-up of the site; and (c) activities preparatory to the matters mentioned in (b) above. The DWMP also presents the estimated cost associated with all designated technical matters, including the steps that need to be taken to decommission the installation and clean-up the site (which includes the management and disposal of waste) after the nuclear power station has finally ceased generation in each case.
	Decommissioning Phase	Decommissioning is the final Lifecycle Phase, and begins when the station is shut down and ceases generating electricity. This phase includes defuelling of the reactors, the progressive removal of all buildings and facilities, on-site storage of higher activity waste and spent fuel pending disposal in the UK Geological Disposal Facility, remediation of the land if required, and the justification for the surrender/ removal of all licenses and permits, for example the Nuclear Site Licence and Environmental Permit - Radioactive Substances Regulation.
DoA	Delegations of Authority	The Delegations of Authority delegate authority for making decisions to the Chief Executive Officer and other individuals within Horizon.

Acronym or Abbreviation	Term	Definition
	Delicense	The process of a Licensee ending their period of responsibility for a site or part(s) thereof. This can occur only when the Office for Nuclear Regulation has notified the Licensee that the “no danger from ionising radiation” criterion set by the Nuclear Installations Act 1965 has been met.
DECC	Department of Energy and Climate Change	In July 2016, following the appointment of Theresa May as Prime Minister, DECC was abolished and its functions were transferred to the new Department for Business, Energy and Industrial Strategy (which replaces the Department for Business, Innovation and Skills).
DBEIS	Department for Business, Energy and Industrial Strategy	The Department for Business, Energy and Industrial Strategy is the government department responsible for government policy in relation to business, energy and industrial strategy, amongst other things. It was formerly known as the Department of Business, Innovation and Skills and absorbed the functions of the Department of Energy and Climate Change in 2016.
DBIS	Department for Business, Innovation and Skills	The government department that was formerly responsible for business, innovation and skills. Its responsibilities and functions are now performed by Department for Business, Energy and Industrial Strategy.
	Derived Powers	Voluntary working level administrative provisions within Horizon’s Management Arrangements, agreed between Horizon and the Office for Nuclear Regulation (ONR) that offer the ONR the ability to exercise regulatory control and oversight (e.g. permissioning of activities) of Horizon’s activities without recourse to their Primary Powers under the Nuclear Site Licence.
DAC	Design Acceptance Confirmation	If the Office for Nuclear Regulation are content with the generic safety and security aspects of the reactor design then it would provide the Requesting Party with a DAC which would mark the end of Generic Design Assessment for that generic design.
DA	Design Authority	The DA is responsible for understanding, managing and controlling those aspects of the whole plant design (including the constituent structures, systems and components) that have an effect on nuclear safety, security or the environment. The DA role extends over the whole Lifecycle of the Power Station from design to decommissioning. The Head of Design Authority has ultimate accountability for the DA.
DRP	Design Reference Point	The reference design for the UK Advanced Boiling Water Reactor (UK ABWR) at Wylfa Newydd Power Station will be confirmed in the Design Reference Point at which point the design will be frozen. The aim of the Design Reference Point is to appropriately identify the revision status of the design documentation and thus to facilitate the identification and control of any subsequent changes to the design with regard to the construction and operation of the UK ABWR. Changes to the reference design will be controlled through suitable interim arrangements until Licensee requirements for Licence Condition 20 (Modification to design of plant under construction) arrangements become active.
DCO	Development Consent Order	The consent for a Nationally Significant Infrastructure Project required under the Planning Act 2008.

Acronym or Abbreviation	Term	Definition
	Development Phase	<p>This is the first of five Lifecycle Phases. The activities within this phase include: establishing the Basis of Design of the UK Advanced Boiling Water Reactor (UK ABWR), creating the site specific design for the UK ABWR to be built on the Wylfa Newydd Power Station site on Anglesey, site preparation and clearance, procurement of Long Lead Items, establishment (and oversight) of the Engineering, Procurement and Construction Contract, applying for major permissions, and establishing an organisation capable of holding the major permissions and undertaking nuclear safety related construction in the subsequent Lifecycle Phase.</p> <p>The phase ends with completion of release of the Hold Point enabling the first irreversible structural concrete pour for the reinforced concrete base slab on the nuclear island, the undertaking of which marks the commencement of the Construction Phase.</p>
	Direction	<p>A Direction is one of the six regulatory powers written into the Licence Conditions. These powers are normally referred to as “Primary Powers”. A Direction is issued by the Office for Nuclear Regulation (ONR) when it requires the Licensee to take a particular action. For example, Licence Condition 31 Shutdown of Specified Operations gives ONR the power to direct a Licensee to shut down any plant, operation or process. Such a Direction would relate to a matter of major or immediate safety importance.</p>
DAP	Duly Authorised Person	<p>A person who has been designated as a Duly Authorised Person for the purposes of Licence Condition 12 (Duly Authorised and other Suitably Qualified and Experienced Persons) to control and supervise operations which may affect plant safety.</p>
ECE	Early Contractor Engagement	<p>ECE is a contract between Horizon and Menter Newydd in order to develop engineering design, construction planning, Engineering, Procurement and Construction Contract price and schedule, and also provide support to the Safety Case of major permissions.</p>
EPRI	Electric Power Research Institute	<p>The EPRI conducts research, development and demonstration relating to the generation, delivery and use of electricity for the benefit of the public. An independent, non-profit organisation, EPRI brings together scientists and engineers as well as experts from academia and the industry to help address challenges in electricity production. The worldwide membership that supports EPRI’s work and mission comprises more than 1,000 organisations. While most members are electric utilities, many are firms, government agencies, corporations, or public or private entities engaged in some aspect of the generation, delivery or use of electricity. Members work collaboratively in advisory councils that help inform the development of the annual research portfolio.</p>
EDRMS	Electronic Document and Records Management System	<p>A system Horizon uses to share business related documentation and data in a controlled environment. It will be used to manage access and permissions for documents and data, and can track versions through their lifetime history. The additional information captured at creation or upload of documents and data helps with easy filing and retrieval.</p>
	Employee	<p>Individual in an approved Post, engaged via a permanent or fixed term contract of employment with Horizon Nuclear Power Services Limited. Employees form part of the Horizon Organisation.</p>

Acronym or Abbreviation	Term	Definition
	Energy Act 2013	The UK legislation which, among other things, provided a framework for the Electricity Market Reform and created the Office for Nuclear Regulation.
EPC Contract	Engineering, Procurement and Construction Contract	<p>An agreement which includes design, procurement of materials and pieces of equipment, construction, assembly, installation, commissioning and testing of the works. An EPC Contract can apply to an entire project or a defined scope of work which makes up part of a project.</p> <p>Within this framework, the EPC contractor normally bears the risk of delivering the project on time, on budget and according to the guaranteed performance values.</p>
EA	Environment Agency	The executive non-departmental public body with responsibility for environmental regulation in England. The Environment Agency is one of the regulators undertaking Generic Design Assessment for the UK Advanced Boiling Water Reactor on behalf of UK Government. The Environment Agency provides nuclear regulation services and resources to Natural Resources Wales under a memorandum of understanding.
EC	Environment Committee	The purpose of the Environment Committee is to provide independent advice on environmental matters as part of environmental governance arrangements to the Chief Executive Officer, Horizon Leadership Team and the Board.
EIA	Environmental Impact Assessment	The process in which the likely significant effects of a development on the environment are identified and assessed. The aspects of the environment that are assessed can include population, fauna and flora, architectural and archaeological heritage and soil.
EP	Environmental Permit	A permit that is required to operate a regulated activity under the Environmental Permitting (England and Wales) Regulations 2016.
EP-RSR	Environmental Permit-Radioactive Substances Regulation	Radioactive Substances Regulation specific requirements are set out in Schedule 23 to the Environmental Permitting (England and Wales) Regulations. The Environmental Permitting (England and Wales) Regulations 2016 describe the general permitting and compliance requirements; the Radioactive Substances Regulation in Schedule 23 specifically cover the keeping and use of radioactive materials, and the accumulation and disposal of radioactive waste.
	Euratom Treaty	<p>The Treaty establishing the European Atomic Energy Community, signed on 25 March 1957.</p> <p>The result of the UK Referendum regarding membership of the European Union was for the UK to cease to be a member state. Whilst the realisation of non-membership will relieve the UK of strict compliance with the total body of European law (including those obligations placed on a member states' administration or on a developer by the Euratom Treaty), Horizon has adopted the strategy of 'no change' until advised otherwise by the UK Government, or an actual change of law occurs.</p>
	European Commission	The European Commission is the executive body of the European Union. It represents the interests of the European Union as a whole (not the interests of individual countries).

Acronym or Abbreviation	Term	Definition
	European Union	The European Union is an economic and political union between 28 member states. The result of the UK Referendum regarding membership of the European Union was for the UK to cease to be a member state. Whilst the realisation of non-membership will relieve the UK of strict compliance with the total body of European law (including those obligations placed on a member states' administration or on a developer by the Euratom Treaty), Horizon has adopted the strategy of 'no change' until advised otherwise by the UK Government, or an actual change of law occurs.
EUR	European Utilities Requirements	The aim of EUR is to harmonise and stabilise the conditions in which light water reactors to be built in Europe in the first decades of the century will be designed and developed.
	Executive Director	A director on the Board of Horizon who also holds executive office and sits on the Horizon Leadership Team, and is involved in managing the day-to-day business of Horizon.
	Existing Power Station	The existing Magnox Power Station at Wylfa.
	Excepted Matter	Nuclear Matter that is excluded from the provisions of the Nuclear Installations Act 1965 (and defined within the Nuclear Installation (Excepted Matter) Regulations 1978), and therefore does not attract the liability for damage which is imposed on United Kingdom operators or on responsible parties under the Act.
	Experiment	Any test or non-routine activity other than an activity carried out pursuant to Licence Conditions 21 (Commissioning) and 28 (Examination, inspection, maintenance and testing).
ECI	Export Controlled Information	ECI is specific information necessary for the development, production or use of controlled goods, or controlled software, specifically including information used for the development, production or use of dual use items used in the nuclear sector and relevant for the UK Advanced Boiling Water Reactor, the handling of which is controlled by international export regimes and will likely require a licence to export. No licence is required for ECI in the public domain or basic scientific research.
	Finance and Risk Functional Unit	The Finance and Risk Functional Unit provides the corporate finance, enterprise risk, property, and facilities functions.
FID	Final Investment Decision	The point at which investors are content to make an investment decision to proceed with construction of the Power Station. A positive FID will require obtaining some consents and permissions to enable construction to proceed once a positive decision is received.
FNC	First Nuclear Concrete	The pour of the structural reinforced concrete for buildings or structures with nuclear safety significance, which also represents commencement of first practicably irreversible nuclear construction.
FNC1	First Nuclear Concrete for unit 1	See definition for First Nuclear Concrete.
FNC2	First Nuclear Concrete for unit 2	See definition for First Nuclear Concrete.

Acronym or Abbreviation	Term	Definition
	Fissile Material	Fissile Material is material capable of sustaining a nuclear fission chain reaction, for example Uranium-235. Fission is the splitting of an atomic nucleus into two or more fragments, either spontaneously or as a result of the impact of a particle, usually with an associated release of energy. Within a reactor core this produces energy, usually in the form of heat, which is then used to boil water that can be used to drive large turbines. This, in turn, activates generators to produce electrical power.
	Fukushima	Japanese prefecture and location of the Fukushima Daiichi nuclear power station, which suffered extensive damage following the earthquake and tsunami of 11 March 2011.
	Functional Units	Collective reference to: <ul style="list-style-type: none"> • Chief Executive Officer Office Functional Unit; • Corporate Affairs Functional Unit; • Human Resources Functional Unit; • Organisational Effectiveness Functional Unit; • Finance and Risk Functional Unit; • Safety and Licensing Functional Unit; and • Legal Functional Unit.
FDP	Funded Decommissioning Programme	A programme, required by the Energy Act 2008, detailing what the expected cost of the decommissioning of a nuclear power station, and safely and securely managing and disposing of its waste, will be and how those costs are anticipated to be met. The Energy Act 2008 requires that an FDP is approved by the Secretary of State. It is anticipated that the FDP would comprise a Decommissioning Waste Management Plan and a Funding Arrangements Plan.
FAP	Funding Arrangements Plan	The section of the Funded Decommissioning Programme which details how the anticipated costs associated with designated technical matters set out in the Decommissioning and Waste Management Plan are to be met.
	Generation Phase	The fourth Lifecycle Phase follows the completion of commissioning of the Power Station, the phase begins following approval of the Pre-Operational Safety Report and completion of a period of commissioned operational service. During this phase the Power Station will be synchronised to the national grid and will be generating for commercial trading. The phase will continue until the Power Station finally ceases generation and disconnects from the national grid at the end of its life.
GDA	Generic Design Assessment	The process used by the Office for Nuclear Regulation and the Environment Agency to assess the non-site specific safety, security and environmental implications of new nuclear reactor designs for the UK, separately from applications to build them at a specific site.
GDA-PCSR	Generic Design Assessment Pre-Construction Safety Report	The Pre-Construction Safety Report produced as part of Generic Design Assessment to demonstrate to the UK regulators, the UK public and related UK stakeholders that a UK Advanced Boiling Water Reactor constructed on a "generic" UK site meets (or will meet) UK regulatory expectations.
GEP	Generic Environmental Permit	The concept of the GEP is part of the Generic Design Assessment process. The GEP will inform the content of the suite of documents that will be provided to the regulators to obtain a Statement of Design Acceptability.

Acronym or Abbreviation	Term	Definition
GSE	Generic Site Envelope	<p>The collective name for a suite of external conditions that is embraced by the generic design of the UK Advanced Boiling Water Reactor (external conditions are those that are beyond the control of the facility operator, comprising environmental conditions and man-made challenges).</p> <p>The GSE provides criteria for the design to address normal operating conditions and the challenge of extreme hazards. It was compiled to be generally (but not always) enveloping of the conditions pertaining to potential new build nuclear sites in the UK. It covers aspects such as weather (air temperature, rainfall, snow etc.), seismic activity and aircraft impact.</p>
GDF	Geological Disposal Facility	A highly-engineered facility capable of isolating radioactive waste within multiple protective barriers, deep underground, to ensure that no harmful quantities of radioactivity ever reach the surface environment.
	Good Practice Guide	A Good Practice Guide is produced by the nuclear industry. It is not prescriptive but offers guidance and in some cases a toolbox of methods and techniques that can be used to demonstrate compliance with regulatory requirements and approaches.
	Grid Connection Agreement	A phrase Horizon uses to refer to the Wylfa Newydd Power Station Bilateral Connection Agreement and Construction Agreement. The agreements are with National Grid and are required to connect to, and use, the national electricity transmission system.
	Group 1 Licence Condition	Those Licence Conditions where proportionate and compliant arrangements are in place at the point of Site Licence Grant. In some cases there may be further development planned for a future point in the project lifecycle.
	Group 2 Licence Condition	<p>Those Licence Conditions (LCs) which regulate matters which will not yet have arisen at the point of Site Licence Grant, meaning that Horizon need not implement any active arrangements to achieve compliance with these LCs at that point in time. Where appropriate, the Horizon Management System identifies activities for which arrangements will need to be in place to achieve LC compliance, and prohibit such activities until such arrangements are developed.</p> <p>Further, for these LCs, there are plans to develop arrangements at an appropriate point in the project lifecycle. That point is always in advance of the lifecycle when the activity is first undertaken.</p>
	Head of Function	Responsible for leading a substantial discipline or function and the associated staff within the organisation. These will report to a Horizon Leadership Team Director or Non-Horizon Leadership Team Director.
HSE	Health and Safety Executive	A statutory body whose role is the enforcement of work-related health and safety law.
HASS	High Activity Sealed Source	A sealed source is an apparatus or radioactive substance whose structure prevents any dispersion of radioactive materials into the environment under normal conditions of use. A sealed source is classified as a HASS if the activity exceeds the values given in Annex I of the EU HASS Directive.
HLW	High Level Waste	Radioactive Waste exceeding 4 GBq (giga Becquerels) per tonne of alpha, or 12 GBq per tonne of beta/gamma activity which need heat removal to be taken into account in the design of storage or disposal facilities. HLW is usually produced as a by-product of nuclear reactions that occur inside nuclear reactors.

Acronym or Abbreviation	Term	Definition
Hitachi	Hitachi, Ltd.	A company which is currently the ultimate shareholder of Horizon Nuclear Power Limited.
Hitachi-GE	Hitachi-GE Nuclear Energy, Ltd.	Hitachi-GE is a strategic global alliance between Hitachi, Ltd. and General Electric Co, founded on 1 July 2007, in which Hitachi, Ltd. is the majority shareholder. Hitachi-GE is putting the UK Advanced Boiling Water Reactor through Generic Design Assessment and developing a delivery team to lead on-site construction. Not to be confused with GE Hitachi Nuclear Energy, its US counterparty, which has General Electric as the majority shareholder.
	Hitachi Seconded	An employee of, or contractor engaged by, Horizon's shareholder, Hitachi, Ltd., who is represented on Horizon's organisational chart.
	Hold Point	Points in the schedule that restrict certain activities from progressing until specific criteria have been achieved and permission to proceed with the specified activities is approved by the relevant authorised person.
	Horizon	Horizon Nuclear Power Wylfa Limited unless otherwise stated.
	Horizon Group	Horizon Nuclear Power Limited and its subsidiaries including: <ul style="list-style-type: none"> • Horizon Nuclear Power Oldbury Limited; • Horizon Nuclear Power Wylfa Holdings Limited; • Horizon Nuclear Power Services Limited; and • Horizon Nuclear Power Wylfa Limited.
HLT	Horizon Leadership Team	Is the senior management team with collective day-to-day responsibility for management of Horizon and its activities and delivery of the approved business plan and strategy.
	HLT Director	A director that sits on the Horizon Leadership Team.
HMS	Horizon Management System	The interrelated processes, people and systems that are required to conduct Horizon's business to achieve its objectives and satisfy requirements to successfully achieve the company's mission. These arrangements are described in a hierarchical suite of documentation from policy at the top level, through organisational manuals, business processes, procedures and associated forms.
	Horizon Nuclear Power Limited	A private limited company registered in England and Wales, under company number 06660388, and with a registered office address of Sunrise House 1420 Charlton Court, Gloucester Business Park, Gloucester, England, GL3 4AE.
	Horizon Nuclear Power Services Limited	A private limited company registered in England and Wales, under company number 06812099, and with a registered office address of Sunrise House 1420 Charlton Court, Gloucester Business Park, Gloucester, England, GL3 4AE.
	Horizon Nuclear Power Wylfa Limited	A private limited company registered in England and Wales, under company number 06811987, and with a registered office address of Sunrise House 1420 Charlton Court, Gloucester Business Park, Gloucester, England, GL3 4AE. This company will be the applicant for the Nuclear Site Licence and other permits for the Wylfa Newydd Project.
	Horizon Nuclear Power Wylfa Holdings Limited	A private limited company registered in England and Wales, under company number 09641958, and with a registered office address of Sunrise House 1420 Charlton Court, Gloucester Business Park, Gloucester, England, GL3 4AE.

Acronym or Abbreviation	Term	Definition
	Horizon Organisation	The totality of resource under direct Horizon control (employee and temporary embedded contractors) which deliver Horizon's activities.
HR	Human Resources Functional Unit	The Human Resources Functional Unit provides the corporate function of Human Resources (including management of the Nuclear Baseline) and supports the delivery of organisation effectiveness.
IDR	Independent Document Review	A governance step that includes Nuclear Oversight and Regulatory Affairs reviewing a document that is significant to one or more of nuclear safety, environmental protection or security. The reviews are carried out by Independent Nuclear Safety Review, Independent Environmental Review or both as appropriate.
IER	Independent Environmental Review	A formal and independent review performed by Nuclear Oversight and Regulatory Affairs in Horizon of documents that are significant to environmental protection.
INSR	Independent Nuclear Safety Review	A formal and independent review performed by Nuclear Oversight and Regulatory Affairs in Horizon of documents that are significant to nuclear safety.
ITPIA	Independent Third Party Inspection Agency	The organisation employed by Horizon for independent oversight during the manufacture and construction of Very High Integrity, High Integrity and Safety Class 1 Structures, Systems and Components.
	Inspection Agency	Approved inspection agency contracted to support Horizon in its own monitoring and inspection activities of suppliers.
	Installation	See Nuclear Installation
INPO	Institute of Nuclear Power Operations	INPO promotes the highest levels of safety and reliability in the operation of commercial nuclear power stations by: <ul style="list-style-type: none"> • establishing performance objectives, criteria and guidelines for the nuclear power industry; • conducting regular detailed evaluations of nuclear power stations; and • providing assistance to help nuclear power stations continually improve their performance.
IC	Intelligent Customer	As an Intelligent Customer, in the context of nuclear safety, security and/or radiological environmental protection, Horizon should know what is required, should fully understand the need for a contractor's goods, works or services, should specify requirements, should supervise the work and should technically review the output before, during and after implementation. The concept of Intelligent Customer relates to the attributes of the organisation rather than the capabilities of individual post holders.
ILW	Intermediate Level Waste	Radioactive Wastes exceeding 4 GBq (giga Becquerels) per tonne of alpha, or 12 GBq per tonne of beta/gamma activity but which do not need heat removal to be taken into account in the design of storage or disposal facilities.
IAEA	International Atomic Energy Agency	The IAEA is an international organisation that seeks to promote the peaceful use of nuclear energy, and to inhibit its use for any military purpose, including nuclear weapons. The IAEA was established as an autonomous organisation on 29 July 1957.

Acronym or Abbreviation	Term	Definition
INSAG	International Nuclear Safety Advisory Group	The INSAG is a group of experts with high professional competence in the field of safety working in regulatory organisations, research and academic institutions and the nuclear industry. INSAG is convened under the auspices of the International Atomic Energy Agency with the objective to provide authoritative advice and guidance on nuclear safety approaches, policies and principles.
ISO	International Organization for Standardization	ISO is an independent, non-governmental membership organisation and the world's largest developer of voluntary International Standards. International Standards give world-class specifications for products, services and systems, to ensure quality, safety and efficiency.
IRR99	Ionising Radiations Regulations 1999	The regulations are made under the Health and Safety at Work Act 1974, and implement most of the Euratom Basic Safety Standards Directive (96/29/Euratom). Supported by an approved code of practice, they establish a framework for ensuring that exposure to ionising radiation arising from work activities is kept as low as reasonably practicable and does not exceed specified dose limits.
IACC	Isle of Anglesey County Council	The local authority governing the area within which the Power Station is intended to be constructed. IACC has a number of functions, including the granting of planning permission as Local Planning Authority.
JSCO	Joint Safety Case Office	The JSCO is a collaborative (Hitachi-GE/Horizon) group focused on delivering the Safety Cases and underpinning claims and arguments required to support Generic Design Assessment (GDA) and the development of the Wylfa Newydd Pre-Construction Safety Report (WN-PCSR). Toward the end of GDA the JSCO arrangements may be reviewed to ensure the suitability for the production of the WN-PCSR and beyond (preserving good practices and collaborative working).
KM	Knowledge Management	An integrated, systematic approach to identifying, managing and sharing an organisation's knowledge and enabling groups of people to create a new knowledge collectively to help in achieving the organisation's objectives.
	Land Registry	The Land Registry is a non-ministerial department which registers the ownership of land and property in England and Wales.
	Legal Functional Unit	The Legal Functional Unit provides legal as well as company secretarial services to Horizon.
LC	Licence Condition	The Office for Nuclear Regulation (ONR) currently attaches 36 standard Licence Conditions to Nuclear Site Licences including those which require the Licensee to make and implement adequate arrangements, providing the main basis for regulation by the ONR.
LI	Licence Instrument	A generic term for a formal document issued to a Licensee by the Office for Nuclear Regulation which either permits an activity or requires some form of action, or ceasing of an action, pursuant to a Licence Condition.
	Licensable Activity	A Licensable Activity is one which must be undertaken on a site where a Nuclear Site Licence is in force.
	Licensee	The corporate body named on the Nuclear Site Licence (NSL). The NSL also identifies the location of the site to which it relates and the prescribed/licensable activities which are permitted to be carried out at the site.

Acronym or Abbreviation	Term	Definition
	Licensee Certificate	<p>Prior to procuring Long Lead Items (LLIs) the Office for Nuclear Regulation (ONR) require Horizon to secure a Licensee Certificate, indicating capability as a potential Nuclear Licensee to procure LLIs.</p> <p>The Licensee Certificate was granted to Horizon by an independent accreditation body, following completion of a successful assessment against the ONR's Technical Assessment Guide 77. The Licensee Certificate confirms that Horizon's management systems and assurance arrangements are suitable to procure high risk LLIs, verifying that Horizon understands its quality assurance responsibilities with regard to items or services significant to nuclear safety.</p>
	Lifecycle Phase	<p>A series of Lifecycle Phases have been defined. Each Lifecycle Phase definition describes the activities (i.e. fuel being bought to site, or completion of Pre Operational Testing) that will occur within each phase, and acts as a framework for developing Horizon's organisational capability to support commencement of these activities. The Lifecycle Phase is applied to the overall Power Station, with the start of each phase characterised by the most advanced activity occurring on the site for the most developed unit.</p>
LLI	Long Lead Item	<p>A component of a system or piece of equipment for which an early commitment of funds to procure is required in order to meet the commercial operation date.</p>
LLISP	Long Lead Item Safety Pack	<p>The LLISP is an 'interim Safety Case' constructed for Long Lead Items (LLIs) to provide sufficient confidence that a Safety Case can be made and that the LLI may be procured. They will be extant in the period leading up to the formal issue of the Wylfa Newydd Pre-Construction Safety Report, following which the LLISP will no longer be required.</p>
LLW	Low Level Waste	<p>Waste that has a radioactive content not exceeding 4 GBq (gigaBecquerels) per tonne of alpha, or 12 GBq per tonne of beta/gamma activity.</p>
	Magnox Limited	<p>The Licensee carrying out operations on behalf of the Nuclear Decommissioning Authority at various nuclear sites.</p>
	Magnox Reactor	<p>A first generation UK nuclear reactor, so called because of the non-oxidising magnesium alloy fuel cladding used to contain uranium fuel rods.</p>
MA	Management Arrangements	<p>All or part of the people, processes and/or systems Horizon uses to manage its ways of working. Management Arrangements are developed, documented and controlled following a graded approach to ensure safety, quality and compliance. Management Arrangements are described in a hierarchical suite of documents (often referred to as Horizon Management System documents) from policy at the highest level, through organisational manuals, processes, procedures to the supporting forms.</p>
MoNBC	Management of Nuclear Baseline Change	<p>The procedure and arrangements for managing changes to Horizon's organisation that affect Horizon's Nuclear Baseline.</p>
MP	Management Prospectus	<p>Explains why the Horizon Organisation is suitable to hold a Nuclear Site Licence.</p>

Acronym or Abbreviation	Term	Definition
MDSL	Master Document Submission List	The Master Document Submission List is a living document that allows the Office for Nuclear Regulation to understand and reference precisely what constitutes the totality of the latest versions of the Generic Design Assessment submissions supporting the latest Safety Case.
	Menter Newydd	One of the key suppliers for the Wylfa Newydd Project is Menter Newydd, a joint venture comprising Hitachi Nuclear Energy Europe Ltd, Bechtel Management Company Limited and JGC Corporation (UK) Limited, which is currently Horizon's counterparty under an Early Contractor Engagement Contract.
	Modification	Any alteration to buildings, plants, operations, processes or Safety Cases and includes any replacement, refurbishment or repairs to existing buildings, plants or processes and alterations to the design of plants during the period of construction.
	National Grid	National Grid is the public company that owns and maintains the high-voltage electricity transmission system in England and Wales, together with operating the system across Great Britain.
	National Assembly for Wales	The National Assembly for Wales is a devolved assembly with power to make legislation in Wales. It is commonly also known as the Welsh Assembly. It is a democratically elected body that represents the interests of Wales and its people, makes laws for Wales, agrees Welsh taxes and holds the Welsh Government to account.
NPS EN-6	National Policy Statement for Nuclear Power Generation EN-6	The National Policy Statement designated in July 2011 by the then Secretary of State for Energy and Climate Change (now being the Secretary of State for Business, Energy and Industrial Strategy) which sets out national policy on new nuclear power stations.
NSAN	National Skills Academy for Nuclear	An employer-led organisation established to ensure that the UK nuclear industry and its supply chain has the skilled, competent and safe work-force it needs to deal with the current and future UK nuclear programme, including all sub-sectors.
NRW	Natural Resources Wales	The public body whose stated purpose is to ensure that the natural resources of Wales are sustainably maintained, enhanced and used, now and in the future. It absorbed the previous regulatory and advisory duties of the Environment Agency Wales, Countryside Council for Wales and the Forestry Commission in Wales.
NDT	Non-Destructive Testing	Non-Destructive Testing is a means of analysing the properties of a material, component or system without causing it any damage.
NED	Non-Executive Director	A Director on the Board of Horizon who does not hold executive office, but is selected for appointment due to his or her breadth of experience and to bring challenge of, and support to, the management of the business to Board meetings.
Non-HLT Director	Non-Horizon Leadership Team Director	Posts within Horizon which have the title of Director but do not sit on the Horizon Leadership Team.
	Normal Operations	The period of time after Horizon has received the Office for Nuclear Regulation's approval of the Pre-Operational Safety Report for a particular generating unit, and completed a period of commissioned operations service. During Normal Operations the Power Station will be synchronised to the national grid and will be generating for commercial trading.

Acronym or Abbreviation	Term	Definition
	Notification	<p>A Notification is one of the six regulatory powers written into the Licence Conditions. These powers are normally referred to as “Primary Powers”.</p> <p>The standard Licence Conditions give the Office for Nuclear Regulation (ONR) powers to request the submission of information by notifying the Licensee of the requirement. For example, in Licence Condition 21 Commissioning the licensee shall, if notified by ONR, submit a Safety Case and shall not commence operation of the relevant plant or process without the consent of ONR.</p>
NB	Nuclear Baseline	The means by which Horizon demonstrates that its organisational structures, staffing and competencies are, and will remain, suitable and sufficient to manage those activities covered by the Nuclear Baseline Areas throughout the full range of Horizon’s current and planned business activities.
	Nuclear Baseline Areas	The collective reference to scope of activities covered by the Nuclear Baseline - nuclear safety, radiological environmental protection, security and quality in so far as it supports the delivery of these.
	Nuclear Baseline Organisation	The collection of Posts across the Horizon Organisation which hold one or more Nuclear Baseline Roles.
	Nuclear Baseline Report	Demonstrates that Horizon’s staffing levels and competencies are suitable for the tasks being undertaken.
	Nuclear Baseline Role	Those roles where action or inaction by an individual or group delivering activities covered by the Nuclear Baseline Areas which if inadequately conceived or executed, could pose an immediate or latent (direct but not immediate) detriment.
NDA	Nuclear Decommissioning Authority	The non-departmental public body created through the Energy Act 2004 responsible for decommissioning and clean-up of nuclear facilities in the UK, and providing for the disposal of all the resulting wastes.
	Nuclear Fuel	Fissionable nuclear material in the form of fabricated elements for loading into the core of a nuclear reactor.
NISR	Nuclear Industries Security Regulations 2003	The regulations that ensure that Nuclear Licensed Sites, Nuclear Material held on other nuclear premises or in the course of transport, the construction of new nuclear sites adjoining existing operating nuclear sites, Sensitive Nuclear Information and uranium enrichment equipment/software held by the civil nuclear industry are subject to effective security protection.
NICoP	Nuclear Industry Code of Practice	The Safety Directors Forum has produced Nuclear Industry Codes of Practice (NICoP). A NICoP represents the industry’s understanding of good practice which, if followed, should promote a consistent approach that satisfies regulatory requirements.
	Nuclear Installation	An Installation that falls within the definition of a Nuclear Installation for the purposes of the Nuclear Installations Act 1965. This would include a nuclear reactor.
NIA65	Nuclear Installations Act 1965	The Nuclear Installations Act 1965 being the principal piece of UK legislation that imposes, amongst other things, an obligation to obtain a Nuclear Site Licence to install or operate a Nuclear Installation and which implements the UK’s obligations under certain international treaties in relation to nuclear liability.

Acronym or Abbreviation	Term	Definition
NIR71	Nuclear Installations Regulations 1971	The Nuclear Installations Act 1965 requires a corporate body to be granted a Nuclear Site Licence before they may use a site for the installation or operation of a nuclear reactor or certain other classes of Nuclear Installations that are prescribed in the Nuclear Installations Regulations 1971.
NLS	Nuclear Licensed Site	A site in respect of which a Nuclear Site Licence has been granted.
	Nuclear Material	Any fissile material in the form of (a) uranium metal, alloy or compound, or (b) plutonium metal, alloy or compound, or any other fissile material prescribed by regulations made by the Secretary of State.
	Nuclear Matter	(a) any fissile material in the form of uranium metal, alloy or chemical compound (including natural uranium), or of plutonium metal, alloy or chemical compound, and any other fissile material which may be prescribed; and (b) any Radioactive Material produced in, or made radioactive by exposure to the radiation incidental to, the process of producing or utilising any such Fissile Material as aforesaid.
	Nuclear Oversight	Horizon's Nuclear Oversight function provides internal assurance through formal activities including observation and surveillance, inspection, and independent review of documents that are significant to nuclear safety, security or environmental protection.
NORA	Nuclear Oversight and Regulatory Affairs	Provides independent assurance of the company's technical activities, independent nuclear safety oversight and to direct and control the company's interactions with the nuclear regulators.
NRC	Nuclear Regulatory Commission	The NRC are the United States' regulator. Their regulatory activities are focused on reactor safety oversight and reactor licence renewal of existing plants, materials safety oversight and materials licensing for a variety of purposes, and waste management of both high level waste and low level waste.
NSC	Nuclear Safety Committee	An advisory body established by a Licensee in accordance with current Licence Condition 13 (Nuclear Safety Committee) to provide nuclear safety advice to the chairman, the Board and Horizon Leadership Team.
NSSEPs	Nuclear, Safety, Security and Environmental Principles	The NSSEPs are intended to establish Horizon's expectations for nuclear, safety, security and environmental protection, where a non-prescriptive, goal setting, approach is taken to regulation. Nuclear and conventional safety are addressed as are security, radiological and non-radiological environmental protection.
	Nuclear Safeguards	Measures, including Nuclear Material accountancy, to verify that civil nuclear materials are properly accounted for and are not diverted to undeclared and/or unauthorised uses.
NSL	Nuclear Site Licence	The licence required under the Nuclear Installations Act 1965 for the installation or operation of a Nuclear Installation (which includes a nuclear reactor) granted by the Office for Nuclear Regulation.
NSSP	Nuclear Site Security Plan	The plan by the Licensee detailing the security arrangements in place, together with their rationale, for the site throughout its lifecycle. The NSSP is written in accordance with security assessment principles.

Acronym or Abbreviation	Term	Definition
OHSAS 18001	Occupational Health and Safety Management Systems	OHSAS 18001 is a framework for an occupational health and safety management system and is a part of the OHSAS 18000 series of standards. It can help an organisation put in place the policies, procedures and controls needed for the organisation to achieve the best possible working conditions and workplace health and safety, aligned to internationally recognised best practice.
ONR	Office for Nuclear Regulation	The regulator that is responsible for (among other things) the regulation of nuclear safety and nuclear security at Nuclear Licensed Sites in the UK. The ONR is responsible for granting Nuclear Site Licences and sets the Licence Conditions that each Licensee must comply with. The ONR inspects Nuclear Licensed Sites for compliance with the Licence Conditions, and also permissions certain activities on Nuclear Licensed Sites.
ONR CNS	Office for Nuclear Regulation Civil Nuclear Security	The ONRs CNS programme is responsible for approving security arrangements within the civil nuclear industry and enforcing compliance to prevent the theft or sabotage of nuclear or other Radioactive Materials, the sabotage of nuclear facilities, and to protect Sensitive Nuclear Information.
	Operations Operational Unit	The Operations Operational Unit is responsible for providing the operational functions, building the generation business capability, for commissioning, operating and maintaining the Power Station, and the technical training function.
	Operations	"Operations" includes maintenance, examination, testing and operation of the plant and the treatment, processing, keeping, storing, accumulating or carriage of any radioactive material or radioactive waste and "operating" and "operational" shall be construed accordingly.
	Operational Units	Collective reference to: <ul style="list-style-type: none"> • Business Development Operational Unit; • Construction Operational Unit; • Operations Operational Unit; and • Technical Operational Unit.
	Operating Instructions	The Operating Instructions provide clear direction and guidance for operating staff to enable safe operation of the plant. The Operating Instructions are divided into various procedures, providing system specific instructions for all modes of operating.
OPEX	Operational Experience	Operational Experience is a term for a systematic approach that is used to capture experience from the activities of the company, and others, and to learn from that experience to improve the performance of the company. This takes many forms from improving processes and procedures, changing training, reflecting the result of experience into the design. Part of the OPEX arrangements include the membership of appropriate national and international organisations. It is sometimes also referred to as Learning from Experience and this term is sometimes used in Horizon.
	Operating Partner	An organisation or group of organisations engaged by Horizon to augment Horizon's Operations team either through provision of embedded resources or by reachback and delivery of materials, advice, review of data, development and delivery of world class processes to underpin Horizon's efforts to become a credible nuclear operator in the UK.

Acronym or Abbreviation	Term	Definition
	Operating Partner programme	A defined collection of activities linked together to provide the assured support for becoming a credible nuclear operator in the UK and providing pathway to excellence in operational performance. It comprises a combination of formal and informal networks with nuclear generation utilities worldwide and recognised industry bodies (e.g. Boiling Water Reactor Owners Group, World Association of Nuclear Operators, Institute of Nuclear Power Operations, Electric Power Research Institute etc). From an early stage in the project this program will result in a systematic approach to support of generation readiness through secondments, embedded resources, reachback, technical support, project tasks, benchmarking, peer review and other recognised methods used throughout the nuclear industry and elsewhere: <ol style="list-style-type: none"> 1. to focus on key areas and instil the foundations for excellence in organisation and plant performance; and 2. for promotion of learning and continuous improvement.
OSR	Operational Safety Report	The Safety Case produced for normal operations, once operation is established further updates to the Safety Case will be treated as normal business.
	Organisational Capability	The breadth (of skill types) and depth (in capability/numbers) of human resources required to deliver activities.
	Organisational Capability Database	This is the database in which the 'live' organisational data (including Nuclear Baseline data) is stored and managed.
OEC	Organisational Effectiveness Committee	The purpose of the Organisational Effectiveness Committee is to oversee the organisational effectiveness of Horizon necessary to deliver the Wylfa Newydd Power Station. This will include monitoring the development of the leadership capability across Horizon, overseeing the development of an appropriate culture and the requisite Intelligent Customer capability and approving the long-term resourcing strategy for Horizon.
	Organisational Effectiveness Functional Unit	The Organisational Effectiveness Functional Unit provides the corporate function for organisational development which includes organisational culture, information systems and management systems.
	Owner's Engineer	An independent third party contracted by Horizon to provide it with additional technical resource. The Owner's Engineer will provide Horizon with both additional technical resource capacity and additional depth of technical expertise. The Owner's Engineer will typically assist Horizon with the specification of detailed requirements and the review of design documentation, construction proposals and construction activities to ensure requirements are met.
	Owner's Scope	Works which form part of the Wylfa Newydd Project which are to be delivered outside the main Engineering, Procurement and Construction (EPC) Contract supply chain are referred to as Owner's Scope. Owner's Scope includes elements of the project such as site enabling works, Associated Development (including highways improvements, worker accommodation and park and ride facilities), earthworks, deep excavation and marine works together with certain (predominantly non-nuclear) permanent facilities and structures on the Power Station site. The scope of works within the definition of Owner's Scope may change from time to time as the division of responsibility with the EPC supply chain emerges through negotiation.

Acronym or Abbreviation	Term	Definition
PC	Permit Condition	A legal obligation imposed on the operator of a permitted activity under an Environmental Permit granted under Section 12 of the Environmental Permitting Regulations (England and Wales) Regulations 2016.
	Permit Holder	Refers to Horizon as a holder of an (one or more) Environmental Permit as granted by Natural Resources Wales.
	Plant and Buildings Schedule	The Site Plan shows the location of every building or plant on site which may affect safety. The Plant and Buildings Schedule provides the particulars of each such building and plant, and the operations associated with them. If any changes are made which affect the said buildings, plant or operations, the Licensee shall send an amended Site Plan and Schedule to the Office for Nuclear Regulation.
	Post	A Post is a position within the Horizon Organisation and is represented on the organisation chart. A Post has defined accountabilities and responsibilities, and a defined set of activities required of the Post holder. These are encapsulated within the Roles assigned to a Post.
	Power Station	The proposed new nuclear power station, comprising two UK Advanced Boiling Water Reactors, and related buildings, structures, systems and components. Used to refer to Wylfa Newydd Power Station (see definition for Wylfa Newydd Power Station for further information).
	Pre Adoption	Horizon's inclusion, in a Wylfa Newydd major submission, of Generic Design Assessment (GDA) Level 1 and 2 material prior to issue of Design Acceptance Confirmation and Statement of Design Acceptability. The GDA Level 1 and 2 material will have been subject to a Design Authority review to demonstrate an adequate understanding of the material with regard to the requirements of the developing Wylfa Newydd Pre-Construction Safety Report, Best Available Techniques Case and other Wylfa Newydd major submissions.
PCmSR	Pre-Commissioning Safety Report	The PCmSR demonstrates that the as-built design is understood and that the residual radiological risks associated with commissioning activities are As Low As Reasonably Practicable.
PCSR	Pre-Construction Safety Report	A report prepared as part of staged approvals for a facility Safety Case that addresses the overall risks of a new facility and demonstrates they are As Low As Reasonably Practicable. Specifically this staged report addresses construction risks whilst also demonstrating the overall facility Safety Case is achievable.
Pre-NSC	Preliminary Nuclear Safety Committee	The purpose of the Preliminary Nuclear Safety Committee is to provide independent nuclear safety advice around organisation, operation and management to the Chief Executive Officer, Horizon Leadership Team and the Board. It is the precursor of the Nuclear Safety Committee under current Licence Condition 13.
POSR	Pre-Operational Safety Report	The Safety Report that demonstrates the facility has been constructed in accordance with the design, commissioning has been successfully completed and the risks during normal operation and the transition out of commissioning are understood, appropriately mitigated and are As Low As Reasonably Practicable.
	Pre Operational Testing	The second stage of Commissioning in which a series of tests are conducted on systems of the Power Station.

Acronym or Abbreviation	Term	Definition
PWR	Pressurised Water Reactor	Design of nuclear reactor employing pressurised water as the coolant and moderator, prevalent around the world as the most common type of nuclear reactor design.
	Primary Power	<p>Powers conferred directly upon the Office for Nuclear Regulation by the Licence Conditions.</p> <p>The Licence Conditions provide six Primary Powers comprising "Consent", "Approval", "Direction", "Notification", "Specification" and "Agreement".</p> <p>Where it is not considered appropriate to use Primary Powers to effect regulatory control, Derived Powers provide a working level alternative to exercise the necessary level of control.</p>
	Prior Information	The information given to the identified population group which a radiation emergency could reasonably expect to affect. The information includes actions to be taken in the unlikely event of an off-site nuclear emergency.
	Property Transaction	"Property Transaction" means any property transaction including a transfer, conveyance, assignment, demise, letting, under-letting, parting with possession, sharing occupation or use, or granting or reserving any property licence, easement or wayleave or in relation to the site or any part of it, but excluding a right of access or any right of occupation, use or possession to or with a party performing statutory, regulatory or international obligations, or a party delivering contracted services solely to or for the benefit of the licensee in relation to that Nuclear Licensed Site.
	Property and Facilities function	The Property and Facilities function provides Horizon with a service in all aspects of acquisition and management of real estate and associated workplace facilities.
QA	Quality Assurance	Measures put in place to provide confidence that quality requirements will be fulfilled and specifications met.
QC	Quality Control	A review of the factors fulfilling quality requirements involved in service delivery or production, which may include inspection and testing.
REPPIR	Radiation (Emergency Preparedness and Public Information) Regulations	The main aim of REPPIR and the supporting guidance is to establish a framework for the protection of the public through emergency preparedness for radiation accidents with the potential to affect members of the public, from premises and specified transport operations; and to ensure the provision of information to the public in advance in situations where a (REPPIR) radiation emergency might arise and in the event of any kind of radiation emergency (however it may arise).
	Radioactive Material	Material designated in national law or by a regulatory body as being subject to regulatory control because of its radioactivity.
	Radioactive Waste	Any material, whatever its physical form, that is either radioactive itself or is contaminated by radioactivity, for which no further use is envisaged by its owner.
RPV	Reactor Pressure Vessel	A cylindrical vessel (container) that houses the reactor core in a coolable and controllable geometry. The vessel is constructed of strong, high quality materials to prevent damage and loss of the coolant/moderator.
	Regulatory Justification	Regulatory Justification is a process based on international legislation which requires that before any new class or type of practice involving ionising radiation can be introduced in the UK, the Government must first assess it to determine whether the individual or societal benefit outweighs the health detriment it may cause.

Acronym or Abbreviation	Term	Definition
	Relevant Site	The Wylfa Newydd Power Station licensed site will become a Relevant Site once a Nuclear Site Licence is in force. The Relevant Site means any of the following: (a) a licensed site at any time during the period of the licensee's responsibility; (b) any premises at any time when they are occupied by the authority; (c) any site at any time when it is occupied by a government department, if that site is being or has been used by that department as mentioned in Section 9 of this Act (Nuclear Installations Act 1965); (d) any site in a relevant territory other than the United Kingdom at any time when that site is being used for the operation of a relevant installation by a relevant foreign operator.
RP	Requesting Party	Requests for the Office for Nuclear Regulation and the Environment Agency to undertake Generic Design Assessment (GDA), are made by a "Requesting Party" and normally originate from a reactor vendor organisation. However, this may also be done as a vendor / operator partnership. The term Requesting Party is used to identify the organisation seeking the GDA and to distinguish it from a Nuclear Site Licence / permit applicant.
	Reserve Ultimate Heat Sink	An alternate medium or route into which the transferred residual heat can always be accepted, even if all other means of removing the heat have been lost or are insufficient.
RD	Responsible Designer	An organisation that has a formal responsibility for maintaining detailed, specialised knowledge of all the systems, structures and components important to safety.
	Role	A defined set of activities, accountabilities and responsibilities, requiring a defined set of qualifications, experience, knowledge and skills of holders of the Role. One or more Roles may be assigned to each Post in the Horizon Organisation.
	Safety (Licence Condition 1)	Safety refers to the safety of persons whether on or off the Nuclear Licensed Site. This definition is specific to Licence Condition 1 - Interpretation. Note that the definition of Safety within Horizon documentation is often wider than the definition above.
	Safety and Licensing Functional Unit	The Safety and Licensing Functional Unit delivers two main functions, the first provides the corporate independent function for setting and assuring policies and standards for nuclear safety (including radiation protection), non-nuclear health and safety, radiological environmental protection, non-radiological environmental protection, security (including Nuclear Safeguards and export control) and quality in so far as it supports the delivery of these. The second function is responsible for delivering the Nuclear Site Licence and ensuring compliance with the attached Licence Conditions.

Acronym or Abbreviation	Term	Definition
	Safety Case	The Safety Case is in totality, the set of documents that describes risk in terms of the hazards presented by the facility, site and the modes of operation, including potential faults and accidents, and those reasonably practicable measures that need to be implemented to prevent or minimise harm. It takes account of experience from the past, is written in the present, and sets expectations and guidance for the future if the hazards are to be controlled successfully. The Safety Case clearly sets out the trail from safety claims through to arguments and supporting evidence. The Safety Case is produced in accordance with Licence Condition 14 (Safety Documentation).
SCDP	Safety Case Development Plan	Presents a high level plan for the development of the Safety Case required for the Power Station as it progresses through construction to commercial operation.
SCSR	Safety Case Status Report	The SCSR is the top level document that sits above the issued Safety Case Report (e.g Wylfa Newydd Pre-Construction Safety Report) and identifies the site Safety Case documentation that has been produced, where it applies, any anomalies or differences between the units, and the forward plan for release of Hold Points and expected regulatory permissions, including the status of previous submissions.
	Safety Report	A detailed safety justification for the permissioning of a major Lifecycle Phase of the facility or site in question with a series of safety claims, arguments and evidence to justify why the activities are safe to undertake and risks are As Low As Reasonably Practicable. The Safety Report in question forms part of the wider Safety Case which comprises the totality of all safety documentation over all Lifecycle Phases.
SDF	Safety Director's Forum	The SDF brings together senior level nuclear executives to: <ul style="list-style-type: none"> • promote learning; • agree strategy on key issues facing the industry; • provide a network within the industry (including with government and regulators) and external to the industry; • provide an industry input to new developments in the industry; • to ensure that the industry stays on its path of continual improvement; and • to identify key strategic challenges facing the industry in the fields of environment, health, safety, quality, safeguards and security and resolve them, often through working with the UK regulators and Department for Business, Energy and Industrial Strategy. <p>SDF membership is drawn from every Licensee in the UK, every Ministry of Defence authorised site and organisations which are planning to become site Licensees, including Horizon.</p>
SPI	Safety Performance Indicator	SPIs are approved measures to assess Horizon's safety performance and show how effective controls are at preventing undesirable safety outcomes. SPIs are used to identify trends in performance relative to Horizon's safety objectives, allowing action to take place to address undesirable changes. SPIs are either activity indicators that show whether or not a control is actually in place (leading indicators) or outcome indicators (lagging indicators) that measure events after they have occurred.

Acronym or Abbreviation	Term	Definition
SNI	Sensitive Nuclear Information	Sensitive Nuclear Information has the meaning given to it in the Anti-terrorism, Crime and Security Act 2001, and as supplemented by the Nuclear Industries Security Regulations 2003. This includes information relating to activities carried out on or in relation to nuclear sites or other nuclear premises which appears to the Secretary of State to be information which needs to be protected in the interests of national security.
	Site	The Site identified on the Nuclear Site Licence (NSL) and defined on the boundary map which will be attached to the NSL for the Wylfa Newydd Power Station.
SLA	Site Licence Application	A written application to the Chief Nuclear Inspector, supported by sufficient information to enable the Office for Nuclear Regulation to assess the prospective licensee and the proposed site.
SLG	Site Licence Grant	The point at which the Office for Nuclear Regulation grants Horizon a Nuclear Site Licence.
	Site Plan	The Site Plan is a drawing showing the location of the Nuclear Licensed Site Boundary and every building or plant on the Nuclear Licensed Site which might affect safety. If any changes are made which affect the said buildings, plant or operations, the Licensee shall send an amended site plan and schedule to the Office for Nuclear Regulation.
SFAIRP	So Far As Is Reasonably Practicable	A term used in the Health and Safety at Work Act 1974 when defining the duty on employers to ensure "so far as is reasonably practicable" the health and safety of their employees and others who may be affected by their undertaking.
	Specification	A Specification is one of the six regulatory powers written into the Licence Conditions. These powers are normally referred to as "Primary Powers". The standard Licence Conditions gives the Office for Nuclear Regulation (ONR) discretionary controls with regard to a Licensee's arrangements and these are implemented through Specifications. For example, in Licence Condition 23 Operating Rules, if ONR specifies, the Licensee is required to refer Operating Rules to their Nuclear Safety Committee for consideration.
	Spent Fuel	Fuel that has been used in a Nuclear Reactor. Spent Fuel requires special handling and storage to meet health, safety, security and environmental regulations. Spent Fuel must be cooled for a period of time once it is removed from the Nuclear Reactor, it is then transferred to a on-site storage building before being transferred off-site for long term storage.
	Start Up Testing	The final stage of Commissioning activities (undertaken within the Commissioning Phase) which commences with the first receipt of Nuclear Material to the generating unit and ends with the final test which operates the generating unit at full power for a set duration and subsequent Commercial Operations Date.
SoDA	Statement of Design Acceptability	On completion of the Generic Design Assessment the Environment Agency, in consultation with Natural Resources Wales, will issue a SoDA if they judge the generic radiological environmental aspects of the reactor design to be satisfactory.
SSA	Strategic Siting Assessment	The process which was used during the preparation of the National Policy Statement EN-6 to identify and assess sites which are considered strategically suitable for the deployment of new nuclear power stations by the end of 2025.

Acronym or Abbreviation	Term	Definition
SSC	Structures, Systems and Components	Structures, Systems and Components that make up the physical plant.
	Sub-Programmes	Collective reference to sub-programmes of the Construction Operational Unit: <ul style="list-style-type: none"> • Owner’s Scope sub-programme; • Project Development sub-programme; • Engineering, Procurement and Construction Contract sub-programme.
SQEP	Suitably Qualified and Experienced Person	Current Nuclear Site Licence Condition 12 (Duly authorised and other suitably qualified and experienced persons) requires Horizon to “make and implement adequate arrangements to ensure that only Suitably Qualified and Experienced Persons perform any duties which may affect the safety of operations on the site”. For each Role within Horizon the associated Role Profile and Competency definition details what is deemed as suitable in terms qualifications and experiences of the role holder.
SFWP	Summary Forward Work Plan	Describes how Horizon will develop its Capability and Management Arrangements through the lifecycle of the Power Station.
TAG	Technical Assessment Guide	Produced by the Office for Nuclear Regulation (ONR), TAGs are intended to give additional guidance to ONR specialist inspectors, and sit below the safety assessment principles. The guides also contain principles relevant to Licence Condition compliance. These guides therefore can be used for information on the ONR's expectations (e.g. for Safety Cases, Organisational Capability, security, Licence Condition compliance).
TECDOC	Technical Document (IAEA)	The International Atomic Energy Agency (IAEA) Technical Documents (IAEA-TECDOCs) are a series of reports covering many aspects of the IAEA’s work.
	Technical Operational Unit	The Technical Operational Unit provides the Design Authority, support for the Generic Design Assessment, and owns the Safety Case and Best Available Techniques Case.
TEC	Temporary Embedded Contractor	Approved agency workers or framework consultants fulfilling an approved post in Horizon for a limited period of time: <ul style="list-style-type: none"> • in advance of a permanent appointment (no more than 12 months); and • to fulfil essential requirements that are not envisaged to be a permanent employee but need to be part of the Horizon Organisation and where a fixed term employee is not possible. TECs form part of the Horizon Organisation.
ToR	Terms of Reference	A description of the objectives and structure of a meeting, committee, project, etc.
TCPA	Town and Country Planning Act 1990	The Act that forms part of the land use planning regime in the UK and (among other things) establishes the legal framework in respect of applications for, and determination of, planning permissions.

Acronym or Abbreviation	Term	Definition
UK ABWR	UK Advanced Boiling Water Reactor	The UK ABWR derives from the generic design of the ABWR. The standard design of the first ABWRs (Kashiwazaki-Kariwa units 6 and 7 in Japan) together with improvements and optimisation from subsequent ABWR power stations (Ohma and Shimane 3) and implementation of learning from the Fukushima-Daichii represent the reference plant for the Wylfa Newydd Power Station. The design reference point for the UK ABWR will be established during Step 4 of the Generic Design Assessment process.
	Units (Organisational Structure)	Collective reference to all Operational Units and Functional Units: <ul style="list-style-type: none"> • Business Development Operational Unit; • Construction Operational Unit; • Operations Operational Unit; • Technical Operational Unit; • Chief Executive Officer Office Functional Unit; • Corporate Affairs Functional Unit; • Human Resources Functional Unit; • Organisational Effectiveness Functional Unit; • Finance and Risk Functional Unit; • Safety and Licensing Functional Unit; and • Legal Functional Unit.
	Welsh Assembly Member	The National Assembly for Wales is made up of 60 Assembly Members. 40 Assembly Members represent the constituencies of Wales and 20 Assembly Members represent the five regions: North Wales, Mid and West Wales, South Wales West, South Wales East and South Wales Central. Assembly Members carry out the work of the National Assembly for Wales; they represent the interests of Wales and its people, make laws for Wales and hold the Welsh Government to account.
WENRA	Western European Nuclear Regulators Association	A cooperation formed in 1999 comprising of the head of regulators for nuclear safety within the European Union and Switzerland.
	White Paper	A policy document produced by the Government that sets out their proposals for future legislation. White Papers are often published as command papers and may include a draft version of a bill that is being planned. This provides a basis for further consultation and discussion with interested or affected groups and allows final changes to be made before a bill is formally presented to Parliament.
WPC	Work Package Consultant	Engaged via third party organisations to complete specific, defined work packages within defined timescales via a commercial relationship. WPCs do not form part of the Horizon Organisation.
WANO	World Association of Nuclear Operators	An international membership organisation uniting every company and country in the world that has an operating commercial nuclear power station with the aim to achieve the highest levels of operational safety and reliability.
Wylfa NPS Site	Wylfa National Policy Statement Site	The Wylfa site designated by NPS EN-6 as potentially suitable for the deployment of a new nuclear power station.

Acronym or Abbreviation	Term	Definition
WN-DSR	Wylfa Newydd Decommissioning Safety Report	The WN-DSR is a Safety Case to demonstrate that the safety of the decommissioning operations meet legislative requirements (for example, the Licence Conditions) and that they are consistent with modern standards and take account of best practices from other decommissioning projects. The Safety Case must be consistent with the Licensee's decommissioning programme and should address the changing hazards from a plant which may occur as a result of modifications to the plant which take place during the stages of decommissioning. The Safety Case must demonstrate that risks are reduced in line with the As Low As Reasonably Practicable principle.
	Wylfa Newydd Power Station	The proposed new nuclear power station to be built at the Wylfa Newydd site, comprising two UK Advanced Boiling Water Reactors, and related buildings, structures, systems and components.
WN-PCSR	Wylfa Newydd Pre-Construction Safety Report	The Pre-Construction Safety Report produced as part of the Generic Design Assessment will be updated to include site-specific information to produce the WN-PCSR, specifically this report will address construction risks whilst also demonstrating the overall facility Safety Case is achievable.
WN-PCmSR	Wylfa Newydd Pre-Commissioning Safety Report	A Safety Case to demonstrate the plant design, as constructed, can safely be commissioned through inactive and active stages and that risks are reduced So Far As Is Reasonably Practicable.
WN-POSR	Wylfa Newydd Pre-Operational Safety Report	The Safety Report that demonstrates the facility has been constructed in accordance with the design, commissioning has been successfully completed and the risks during normal operation and the transition out of commissioning are understood, appropriately mitigated and are As Low As Reasonably Practicable.
WN-PSR	Wylfa Newydd Preliminary Safety Report	The purpose of a WN-PSR is to summarise the design and key safety aspects and give confidence that an acceptable site specific Pre-Construction Safety Report can be made for the UK Advanced Boiling Water Reactor at Wylfa Newydd Power Station when required, and also to enable early identification of issues, gaps, uncertainties and risks that may affect the Safety Case.
WN-SJR	Wylfa Newydd Site Justification Report	Horizon must demonstrate that the Wylfa Newydd site is suitable for the proposed development, for example the site is of sufficient size, can be connected to the National Grid and has suitable geology to support the construction of the necessary structures.
WN-SSR	Wylfa Newydd Station Safety Report	The WN-SSR will permission 'Normal Operation' for the two units on the Wylfa Newydd Power Station site. The WN-SSR will follow the Wylfa Newydd Pre-Construction Safety Report, Wylfa Newydd Pre-Commissioning Safety Report and Wylfa Newydd Pre-Operational Safety Report. Once this Safety Case submission is issued, it will require a periodic review and assessment, i.e. the 10 year maximum period for periodic reviews (Licence Condition 15) will start.
	Wylfa Newydd Project	The delivery over time of the Power Station and Associated Development. The Wylfa Newydd Project encompasses any and all subordinate programmes and projects that contribute to this overall objective.

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