

ABBREVIATIONS

| Term | Definition |
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| AACST | Annual Approved Carbon Storage Target |
| ABEX | Annualised Abandonment Expenditure |
| ABR | Additional Budget Request |
| ACAL | Asset Control and Assurance Listing |
| ACV | Approved Contract Value |
| A/D | Analogue to Digital |
| ADP | Area Development Plan |
| AELB | Atomic Energy Licensing Board |
| AFC | Approved for Construction |
| AFR | Approved for Removal |
| AGA | American Gas Association |
| ALARP | As Low As Reasonably Practicable |
| AMIR | Asset Management Integrated Review |
| ANSI | American National Standard Institute |
| APB | Annulus Pressure Build-Up |
| API | American Petroleum Institute |
| ARCR | Annual Review of Carbon Storage Resources |
| AS | Affiliate Services |
| ASTM | American Society for Testing and Materials |
| AWP&B | Abandonment Work Programme and Budget |
| BCP | Business Continuity Plan |
| BDEP | Basic Design & Engineering Package |
| BDP | Basic Design Package |
| BFD | Basis for Design |
| BHP | Bottom Hole Assembly |
| BHT | Bottom-Hole Temperature |
| BOCP | Blowout Contingency Plan |
| BOD | Basis Of Design |
| BOP | Blowout Preventer |
| BOSIET | Basic Offshore Safety Induction and Emergency Training |
| BPEOA | Best Practicable Environmental Option Assessment |
| BPV | Back Pressure Valve |
| BST | Basic Safety Training |
| BT | Budget Transfer |
| BTEX | Benzene, Toluene and Xylene |
| CA | Confidentiality Agreement |
| CAPEX | Capital Expenditure |

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| CCPF | Completion Cost per Foot |
| CCS | Carbon Capture and Storage |
| CCUS | Carbon Capture Utilisation and Storage |
| CDPTF | Completion Days per Thousand Feet |
| CMMS | Computerised Maintenance Management System |
| CMP | Corrective Measure Plan |
| CNG | Compressed Natural Gas |
| CO₂ | Carbon Dioxide |
| CoO | Cessation of Operation |
| CoP | Cessation of Production |
| CPL | Correction for the Effect of Pressure on Liquid |
| CPS | Correction for the Effect of Pressure on Steel |
| CRA | Cost Risk Assessment |
| CRS | Coordinate Reference System |
| CSEM | Controlled-source Electromagnetic |
| CSIR | Carbon Storage Information Release |
| CSP | Carbon Storage Project |
| CSPRA | Carbon Storage Project Risk Assessment |
| CSR | Concept Selection Report |
| CSU | Commissioning and Start-Up |
| CTL | Correction for the Effect of Temperature on Liquid |
| CTS | Correction for the Effect of Temperature on Steel |
| CUI | Corrosion Under Insulation |
| DAP | Detailed Abandonment Plan |
| DCS | Decommissioning for Carbon Storage Review |
| DCPF | Drilling Cost Per Foot |
| DDA | Due Diligence Assurance |
| DDP | Detailed Decommissioning Plan |
| DDPTF | Drilling Days per Thousand Feet |
| DDR | Daily Drilling Report |
| DEP | Decommissioning Environmental Plan |
| DG | Decision Gate |
| DM | Deferment Management |
| DOA | Decommissioning Option Assessment |
| DOE | Department of Environment |
| DOF | Department of Fisheries |
| DOR | Daily Operation Report |
| DP | Dynamic Positioning |
| DR | Decommissioning Review |
| DST | Drill Stem Test |
| ECD | Equivalent Circulating Density |

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| EDG | Exploration Decision Gate |
| EIA | Environmental Impact Assessment |
| EM | Electromagnetic |
| EMP | Environmental Management Plan |
| EN | European Standard |
| EPC | Engineering, Procurement and Construction |
| EPCC | Engineering, Procurement, Construction and Commissioning |
| EPCIC | Engineering, Procurement, Construction, Installation and |
| ERM | Enterprise Risk Management |
| ERP | Emergency Response Plan |
| ERT | Electrical Resistance Tomography |
| ESD | Emergency Shutdown |
| ESDV | Emergency Shutdown Valve |
| ESRT | Emergency Support Rescue Team |
| EUR | Estimated Ultimate Recovery |
| EVM | Earned Value Method |
| FA | Final Acceptance |
| FAD | Fish Aggregating Device |
| FAT | Factory Acceptance Test |
| FCB | Fast Crew Boat |
| FCI | First Commercial Injection |
| FDCR | Final Drilling and Completion Report |
| FDP | Field Development Plan |
| FEED | Front End Engineering Design |
| FFH | Final Facilities Handover |
| FFR | Full Field Review |
| FHD | Facilities Handover Date |
| FI | Final Inspection |
| FID | Final Investment Decision |
| FIP | Facilities Improvement Project |
| FIT | Formation Integrity Test |
| FMEA | Failure Mode and Effects Analysis |
| FR | Feasibility Report |
| FSA | Formal Safety Assessment |
| FSR | Feasibility Study Report |
| FTD | Final Total Depth |
| FWAR | Final Well Abandonment Report |
| FWIR | Final Well Intervention Report |
| FWOR | Final Workover Report |
| FWP | Fire Water Pump |
| G&A | General and Administrative |

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| G&G | Geological and Geophysical |
| GHG | Greenhouse Gas |
| GIS | Geographic Information System |
| HA | Handover Assurance |
| HAZID | Hazard Identification |
| HAZOP | Hazard and Operability Study |
| HEMP | Hazards and Effects Management Process |
| HIPPS | High Integrity Pressure Protection System |
| HIIP | Hydrocarbon Initially in Place |
| HPHT | High Pressure High Temperature |
| H₂S | Hydrogen Sulphide |
| HSE | Health, Safety & Environment |
| HSSE | Health, Safety, Security & Environment |
| HSSE MS | Health, Safety, Security & Environment Management System |
| HUET | Helicopter Underwater Evacuation Framing |
| HUC | Hook-up and Commissioning |
| HWU | Hydraulic Workover Unit |
| IA | Impact Assessment |
| IADC | International Association of Drilling Contractors |
| I.D. | Inside Diameter |
| IE | Injection Enhancement |
| IEC | International Electrotechnical Commission |
| IFH | Initial Facilities Handover |
| IMCA | International Marine Contractors Association |
| IMO | International Maritime Organization |
| IOM | Integrated Operation Meeting |
| IP | Intellectual Property |
| ISO | International Organization of Standardization |
| IT | Information Technology |
| IWR | Idle Well Reactivation |
| JOA | Joint Operating Agreement |
| JV | Joint Venture |
| KOM | Kick-off meeting |
| KPI | Key Performance Indicators |
| LLI | Long-lead Items |
| LTI | Lost Time Injury |
| LTIF | Lost Time Injury Frequency |
| LTOBM | Low Toxicity Oil-Based Mud |
| LNG | Liquefied Natural Gas |
| LOI | Letter of Intent |
| LOPC | Loss of Primary Containment |

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| LOT | Leak Off Test |
| LPG | Liquefied Petroleum Gas |
| LWD | Logging While Drilling |
| MAH | Major Accident Hazard |
| MAP | Measurement and Accounting Procedures |
| MAOP | Maximum Allowable Operating Pressure |
| MC | Mechanical Completion |
| MCD | Mechanical Completion Date |
| MCM | Monthly Coordination Meeting |
| MD | Measured Depth |
| MES | Minimum Environmental Specifications |
| MFC | Minimum Financial Commitment |
| MIT | Mechanical Integrity Test |
| MMV | Monitoring, Measurement and Verification |
| MOC | Management of Change |
| MOD | Money of the Day |
| MoM | Minute of Meeting |
| MPD | Managed Pressure Drilling |
| MPR | Monthly Progress Report |
| MSDS | Material Safety Data Sheet |
| MTAB | Measurement, Testing, Allocation and Balancing |
| MTBF | Mean Time Between Failures |
| MTR | Mean Time to Restore |
| MTTR | Mean Time to Repair |
| MWC | Minimum Work Commitment |
| MWD | Measurement While Drilling |
| NACE | National Association of Corrosion Engineers |
| NDT | Non-destructive Test |
| NFE | Notional Field Exploration |
| NFPA | National Fire Protection Agency |
| NLA | Nomination and Lifting Agreements |
| NMIM-SIRIM | National Metrology Institute of Malaysia - Standards and Industrial Research Institute of Malaysia |
| NOOP | Notice of Operation |
| NORM | Naturally Radioactive Materials |
| NOWAP | Notice of Well Abandonment Plan |
| NOWIP | Notice of Well Intervention Programme |
| NOWOP | Notice of Workover Operations |
| NPT | Non-Productive Time |
| NREB | Natural Resources and Environment Board |
| NTU | Nephelometric Turbidity Unit |

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| OCM | Operation Committee Meeting |
| OCS | Overall Contracting Strategy |
| OEM | Original Equipment Manufacturer |
| O.D. | Outside Diameter |
| OIML | International Organization of Legal Metrology |
| OJT | On the Job Training |
| OOC | Oil on Cuttings |
| OPEX | Operational Expenditure |
| ORM | Operational Risk Management |
| ORSA | Operation Readiness and Safety Assurance |
| OSP | Offshore Safety Passport |
| OSR MS | Offshore Self-Regulation Management System |
| PA | Provisional Acceptance |
| P&A | Plug and Abandonment |
| PAP | Project Assurance Plan |
| PAP | Pipeline Abandonment Plan |
| PBE | Pre-Budget Expectation |
| PCAP | Project Control and Assurance Plan |
| PCM | Project Coordination Meeting |
| PCO | Project Close Out |
| PCPG | PETROS Contracting and Procurement Guide |
| PD | Planned Deferral |
| PDCA | Plan, Do, Check, Adjust |
| PDG | Permanent Downhole Gauges |
| PDR | Post Drilling Review |
| PEMP | Project Execution Management & Planning |
| PEP | Project Execution Plan |
| PER | Project Execution Review |
| PISC | Post Injection Site Care |
| P&ID | Piping and Instrumentation Diagram |
| PIMS | Pipeline Integrity Management System |
| PIN | Project Initiation Note |
| PIR | Post Implementation Review |
| PLL | Project Lessons Learnt |
| PM | Project Manager |
| PMS | Project Management System |
| POB | Personnel on Board |
| POCM | Project Operation Coordination Meeting |
| PP | Procurement Plan |
| Ppb | Parts per Billion |
| PPC | Provisional Post-Closure |

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|-----------------|---|
| PPD | Project Premises Document |
| PPG | PETROS Petroleum Guideline |
| PPM | Parts per million |
| PPR | Project Performance Review |
| PRA | Project Risk Assessment |
| PSUA | Pre-Start-up Audit |
| PTL | PETROS Threshold Limit |
| PVT | Pressure Volume and Temperature |
| QA | Quality Assurance |
| QC | Quality Control |
| OSH | Occupational Safety & Health |
| RAM | Risk Assessment Matrix |
| RCD | Rotating Control Device |
| RCFA | Root Cause Failure Analysis |
| R&D | Research and Development |
| RFC | Ready For Commissioning |
| RFR | Ready For Removal |
| RFSU | Ready For Start-Up |
| ROP | Rate of Penetration |
| ROV | Remotely Operated Vehicle |
| RTD | Resistance Thermal Detector |
| SADIR | Storage Asset Development Integrated Review |
| SAMIR | Storage Asset Management Integrated Review |
| SAT | Site Acceptance Test |
| SBM | Synthetic Based Mud |
| SCE | Safety Critical Elements |
| SCSSV | Surface Controlled Subsurface Safety Valve |
| SCP | Sustained Casing Pressure |
| SDA | Storage Development Agreement |
| SDP | Storage Development Plan |
| SFAP | Surface Facilities Abandonment Plan |
| SG | Stage Gate Process |
| SIA | Social Impact Assessment |
| SIM | Structural Integrity Management |
| SIMOP | Simultaneous Operations |
| SIPROD | Simultaneous Production and Drilling Operation |
| SMP | Storage Management Plan |
| SPE-SRMS | Society of Petroleum Engineers' Carbon Dioxide (CO ₂) Storage Resources Management System Resources Management System |
| SPF | Shot-per-foot |
| SRM | Sarawak Resource Management |

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|----------------|---|
| SRA | Schedule Risk Assessment |
| SRP | Security Response Plan |
| SSA | Storage Study Agreement |
| SSC | Sulphide Stress Cracking |
| SSR | Storage Site Review |
| SSV | Surface Safety Valve |
| SWAP | Subsurface Well Abandonment Plan |
| TAM | Technical Authorities Manual |
| TD | Total Depth |
| TENORM | Technologically Enhanced Naturally Occurring Radioactive Material |
| T&D | Torque & Drag |
| TMS | Technology Management System |
| TOC | Top of Cement |
| TRC | Technical Review Committee |
| TRCF | Total Recordable Case Frequency |
| TSS | Total Solid Suspension |
| TVD | True Vertical Depth |
| TWA | Time-Weighted Average |
| UAT | User Acceptance Test |
| UAUC | Unsafe Act/ Unsafe Condition |
| UNFCCC | United Nations Framework Convention on Climate Change |
| UPC | Unit Production Cost |
| UPD | Unplanned Deferral |
| USDW | Underground Sources of Drinking Water |
| VDR | Virtual Data Room |
| WAR | Well Abandonment Report |
| WBE | Well Barrier Element |
| WCPF | Well Cost Per Foot |
| WIMS | Well Integrity Management System |
| WP | Work Programme |
| WOC | Wait-On-Cement |
| WOW | Waiting on Weather |
| YEP | Year-End Projection |
| YER | Year End Reporting |
| YTD | Year-to-Date |