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Health, Safety, Environment & Quality (HSEQ)

ABU DHABI / UAE OFFSHORE OPERATIONS

Compliant with ADNOC | ADOSH | EAD | Civil Defence | ISO | NFPA Standards

Document Title	Offshore Project Risk Register
Project Name	<i>[PROJECT NAME — Insert Here]</i>
Project Number	<i>[PROJECT NO. — Insert Here]</i>
Contract Package	<i>[CONTRACT PACKAGE — Insert Here]</i>
Client / Operator	<i>[CLIENT / ADNOC ENTITY — Insert Here]</i>
Contractor	<i>[MAIN CONTRACTOR — Insert Here]</i>
Location / Block	<i>[OFFSHORE BLOCK / FIELD NAME — Insert Here]</i>
Document Ref No.	<i>[DOC-REF-0001-YYYY]</i>
Revision	Rev 00 — For Review & Approval

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Date of Issue	<i>[DD/MM/YYYY — Insert Here]</i>
Prepared By	<i>[QHSE Lead — Name & Signature]</i>
Reviewed By	<i>[HSE Manager — Name & Signature]</i>
Approved By	<i>[Project Director / Authorised Representative]</i>
Classification	CONFIDENTIAL — For Project Use Only

IMPORTANT NOTICE

This Risk Register is a live document and must be updated following any change in scope, hazard identification, incident investigation, regulatory update, or geopolitical risk escalation. All placeholder fields marked in italic must be completed prior to project commencement. Review at minimum monthly.

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1. DOCUMENT CONTROL & REVISION HISTORY

Rev	Date	Description of Change	Prepared By	Approved By
00	[DD/MM/YYYY]	Initial Issue for Review	[Name / QHSE Lead]	[Project Director]

1.1 Distribution List

Name	Title / Role	Organisation	Copy Type
[Name]	Project Director	[Organisation]	Controlled
[Name]	HSEQ Manager	[Organisation]	Controlled
[Name]	Offshore Installation Manager (OIM)	[Organisation]	Controlled
[Name]	ADNOC HSE Representative	ADNOC	Controlled
[Name]	Client HSE Lead	[Client]	Reference

2. REGULATORY & STANDARDS

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All offshore project activities within Abu Dhabi and UAE territorial waters must comply with the following mandatory regulatory requirements, codes, and industry standards. This framework forms the legislative basis for all risk controls identified in this register.

2.1 UAE Federal Legislation — Mandatory Compliance

Legislation / Code	Scope / Application
UAE Federal Law No. 8 of 1980	UAE Labour Law — Employment, occupational safety, worker rights & welfare
UAE Federal Law No. 11 of 2006	Environment Protection and Development
UAE Federal Law No. 24 of 1999	Protection and Development of the Environment
Cabinet Resolution No. 37 of 2006	Regulation of Hazardous Waste Management
Federal Law No. 28 of 2001	Regulation of Chemicals & Hazardous Substances
Ministerial Decision No. 32 of 1982	Occupational Health Regulation
UAE Federal Law No. 6 of 2022	Cybersecurity Law — Project Information & OT Systems

2.2 ADNOC (Abu Dhabi National Oil Company) Mandatory Standards

ADNOC Standard	Description / Application
ADNOC HSEMS	Health, Safety & Environment Management System — overarching framework for all ADNOC operations
ADNOC CoP 1	Safety Management System

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ADNOC CoP 2	Permit to Work (PTW) System — mandatory for all offshore hot work, confined space, isolation
ADNOC CoP 6	Offshore Safety
ADNOC CoP 7	Emergency Response & Preparedness
ADNOC CoP 9	Environmental Management
ADNOC CoP 15	Marine Operations & Vessels
ADNOC CoP 16	Management of Change (MoC)
ADNOC CoP 17	Contractor HSE Management
ADNOC CoP 22	Simultaneous Operations (SIMOPs)
ADNOC CoP 25	Dropped Objects Prevention
ADNOC Group Process Safety Directive	Process Safety Management for Offshore Facilities
ADNOC Offshore Specific Requirements	Supplementary requirements per contract HSE Plan

2.3 ADOSH / OSHAD-SF (Abu Dhabi Occupational Safety & Health Centre)

ADOSH / OSHAD Standard	Description / Application
AD OSHMS Framework (OSHAD-SF v3.1)	Abu Dhabi OHS Management System Framework — Mandatory for all entities in Abu Dhabi
OSHAD-SF Element 01	Leadership & Management Commitment

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OSHAD-SF Element 02	Hazard Identification, Risk Assessment & Control (HIRAC)
OSHAD-SF Element 03	Legal & Other Requirements
OSHAD-SF Element 04	OHS Objectives & Programs
OSHAD-SF Element 05	Emergency Preparedness & Response
OSHAD-SF Element 06	Monitoring, Measurement & Audit
OSHAD-SF TG-02	Technical Guideline — Risk Assessment Methodology
OSHAD-SF TG-14	Technical Guideline — Offshore Operations
OSHAD-SF TG-20	Technical Guideline — Management of Chemicals & Hazardous Substances
OSHAD Certificate of Compliance	Required prior to project commencement and annually thereafter

2.4 Environment Agency Abu Dhabi (EAD)

EAD Standard / Regulation	Description / Application
EAD Regulation for Offshore Facilities	Environmental Impact Assessment (EIA) requirements — mandatory pre-project approval
EAD Waste Management Regulation	Offshore waste segregation, storage, and licensed disposal requirements
EAD Air Quality Standards	Emissions from offshore equipment, flaring, and marine vessels
EAD Marine & Coastal Zone Regulation	Protection of marine ecosystem, coral reefs, and coastal zones

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EAD Chemical Management	Storage, handling, and disposal of chemicals offshore
EAD Oil Spill Contingency Requirements	Mandatory OSCP and drill compliance
CITES — UAE Adherence	Protection of endangered marine species in UAE waters

2.5 Abu Dhabi Civil Defence (ADCD)

Civil Defence Requirement	Description / Application
ADCD Fire & Life Safety Code of Practice	Fire detection, suppression, and escape systems on offshore installations
ADCD Regulation No. 8 of 2020	Approval of fire safety systems and emergency exits
ADCD Emergency Response Coordination	Coordination with ADCD for emergency drills and offshore incident response
ADCD Helipad Requirements	Helideck standards, foam systems, and personnel safety (where applicable)
ADCD Hot Work Permit Standards	Fire watch, fire extinguisher placement, and hot work controls

2.6 International Standards — Referenced & Adopted

Standard / Code	Scope / Application
ISO 45001:2018	Occupational Health & Safety Management Systems — Requirements
ISO 14001:2015	Environmental Management Systems — Requirements

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ISO 9001:2015	Quality Management Systems — Requirements (QHSE integrated projects)
ISO 31000:2018	Risk Management — Guidelines (risk assessment methodology basis)
ISO 17776:2016	Offshore Production Installations — Major Accident Hazard Management
ISO 13702:2015	Control & Mitigation of Fires & Explosions on Offshore Production Installations
ISO 10418	Offshore Structures — Basic Surface Process Safety Systems
ISO 15544:2000	Offshore Structures — Emergency Response
ISO 13624:2009	Marine Drilling Riser Equipment
ISO 14224:2016	Collection & Exchange of Reliability & Maintenance Data
NFPA 10	Standard for Portable Fire Extinguishers
NFPA 11	Standard for Low/Medium/High-Expansion Foam — Offshore deluge systems
NFPA 12	Standard on Carbon Dioxide Extinguishing Systems
NFPA 20	Standard for Installation of Stationary Fire Pumps
NFPA 25	Inspection, Testing & Maintenance of Water-Based Fire Protection Systems
NFPA 30	Flammable & Combustible Liquids Code — Offshore fuel storage
NFPA 59A	Production, Storage & Handling of LNG
NFPA 70	National Electrical Code — Hazardous Area Classification
NFPA 72	National Fire Alarm & Signaling Code

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API RP 2D	Operation & Maintenance of Offshore Cranes
API RP 2SK	Station Keeping of Floating Structures
API RP 14C	Basic Surface Safety Systems for Offshore Platforms
API RP 14J	Hazards Analysis for Offshore Production Facilities
API RP 53	Blowout Prevention Equipment Systems for Drilling Wells
API RP 505	Classification of Locations for Electrical Installations at Petroleum Facilities
IOGP S-702	Life-Saving Rules — 9 Cardinal Rules
IOGP S-761	Emergency Response & Crisis Management
IMO MARPOL 73/78	International Convention for Prevention of Pollution from Ships
IMO SOLAS	Safety of Life at Sea — Applicable to support/construction vessels
ISPS Code	International Ship & Port Facility Security Code
IMO ISM Code	International Safety Management Code
OPRC Convention	Oil Pollution Preparedness, Response & Co-operation
MLC 2006	Maritime Labour Convention — Offshore seafarers welfare
IMCA D 018	Diving Operations
OPITO Standards	HUET, BOSIET, FOET — Offshore survival training mandatory

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3. RISK ASSESSMENT METHODOLOGY

The risk assessment methodology used in this register is aligned with OSHAD-SF TG-02, ISO 31000:2018, and ADNOC HSEMS. Risks are evaluated on a 5x5 Risk Matrix considering Likelihood and Consequence.

3.1 Risk Rating Matrix (5x5)

Consequence \ Likelihood	5 - Almost Certain	4 - Likely	3 - Possible	2 - Unlikely	1 - Rare
5 - Catastrophic	EXTREME	EXTREME	HIGH	HIGH	MEDIUM
4 - Major	EXTREME	HIGH	HIGH	MEDIUM	LOW
3 - Moderate	HIGH	HIGH	MEDIUM	LOW	LOW
2 - Minor	HIGH	MEDIUM	LOW	LOW	VERY LOW
1 - Negligible	MEDIUM	LOW	LOW	VERY LOW	VERY LOW

3.2 Likelihood Scale

Score	Descriptor	Definition	Offshore Example Frequency
5	Almost Certain	Expected to occur in most circumstances	More than once per year in similar operations
4	Likely	Will probably occur in most circumstances	Once per year in the industry
3	Possible	Might occur at some time	Once per 10 years

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2	Unlikely	Could occur at some time	Once per 100 years
1	Rare	May occur only in exceptional circumstances	Less than once per 1,000 years

3.3 Consequence Scale

Score	Descriptor	People / Safety	Environment	Asset / Project	Reputation
5	Catastrophic	Multiple fatalities	Massive irreversible environmental damage	Complete asset loss	International/ADNOC suspension
4	Major	Single fatality or permanent disability	Major long-term environmental damage	>USD 10M damage	National media, regulatory prosecution
3	Moderate	LTI / significant injury	Significant short-term damage	USD 1M–10M damage	Local media / client complaint
2	Minor	Medical Treatment Case (MTC)	Minor recoverable impact	USD 10K–1M damage	Internal complaint
1	Negligible	First Aid Case (FAC)	Minimal / no lasting impact	<USD 10K	No significant impact

3.4 Action Required by Risk Rating

Score	Rating	Required Action & Timeframe
15-25	EXTREME	IMMEDIATE STOP WORK. Work shall NOT proceed. Notify Project Director and ADNOC HSE Representative immediately. Formal risk review and written ADNOC approval required before resumption.

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8-14	HIGH	Work may proceed only with additional controls in place and written HSE Manager/OIM approval. Implement controls within 24 hours. Daily monitoring required.
4-7	MEDIUM	Implement controls within 5 working days. HSE Manager review required. Weekly monitoring and documentation.
2-3	LOW	Manage by routine procedures. Implement within 30 days. Document and monitor monthly.
1	VERY LOW	Accept. Monitor annually. No immediate action required.

4.1 Geopolitical Risk Register

SECTION GEO: Geopolitical & Regional Security Risks										
Risk ID	Risk Description	Category	Likelihood (1-5)	Consequence (1-5)	Initial Risk Rating	Control Measures & Safeguards	Residual Risk Rating	Risk Owner	Standard / Ref	Status
GEO-01	Houthi/proxy missile, drone, or maritime UAS/USV attack on offshore platform or support vessel — escalation from Yemen conflict and Iran proxy network	Security	3	5	HIGH	CICPA security registration and assessment. Offshore ISPS security plan in place. 24/7 radar monitoring. Armed security advisory assessment. Personnel muster drills. Emergency communication protocol with UAE Armed Forces. All support vessels ISPS compliant.	MEDIUM	[HSEQ Mgr]	ISPS Code, CICPA, UAE Law 6/2022, ADNOC CoP 7	OPEN



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ID	Description	Category	Impact	Frequency	Risk Level	Controls	Residual Risk	Responsible Party	References	Status
GEO-02	Iran IRGC vessel interdiction, asset seizure, or hostile encounter during marine transit — Arabian Gulf / Strait of Hormuz	Security	2	5	HIGH	Pre-transit security risk assessment. Route deviation plan. Vessel tracking (AIS/SSAS active). Emergency distress protocols. UAE Coast Guard coordination. Crew security training. Armed escort where mandated by threat level.	LOW	[Marine Supt]	ISPS Code, SOLAS Ch XI-2, CICPA, IMO MSC Circ 623	OPEN
GEO-03	Cyber-attack on offshore OT/SCADA/DCS systems — state-sponsored actors targeting UAE energy infrastructure	Cyber Security	3	4	HIGH	OT/IT network segmentation. IEC 62443 compliance. Multi-factor authentication. Regular penetration testing. ADNOC cybersecurity compliance. Incident response plan. Offline backup of critical systems. Staff cyber awareness training. NESA compliance.	MEDIUM	[IT/OT Lead]	UAE Law 6/2022, IEC 62443, ADNOC CoP 16, NESA	OPEN
GEO-04	Strait of Hormuz closure disrupting supply chain, crew rotation, and emergency evacuation logistics	Business Continuity	2	4	MEDIUM	Alternative supply routing identified. 30-day emergency stock maintained offshore. Alternative crew rotation routes approved by GCAA. Contingency contracts with alternative marine operators. Business continuity plan reviewed quarterly.	LOW	[Project Director]	ADNOC CoP 7, ISO 22301, NCEMA Framework	OPEN
GEO-05	Regional conflict escalation requiring non-essential personnel evacuation — impact on project continuity and safety	Security / HSE	2	4	MEDIUM	EOP updated with current threat scenarios. Mass evacuation drill conducted. Headcount accountability. Helicopter emergency evacuation coordination. Skeleton crew minimums defined. Crisis communication protocol with ADNOC.	LOW	[OIM]	ADNOC CoP 7, OSHAD-SF EI 05, ISO 15544	OPEN

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GEO-06	Conflict-related supply chain disruption — procurement of safety-critical materials (fire suppression, PPE, medications) delayed	Supply Chain	3	3	MEDIUM	Buffer stock minimum 30 days for all safety-critical materials. Pre-qualified alternate suppliers. Quarterly supply chain risk review. ADNOC procurement coordination. Emergency procurement protocol at 14-day stock threshold.	LOW	[Supply Manager]	<i>ADNOC CoP 17, ISO 22301</i>	OPEN
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5. PROCESS SAFETY & MAJOR ACCIDENT HAZARD (MAH) RISKS

SECTION MAH: Process Safety & Major Accident Hazard Risks										
Risk ID	Risk Description	Category	Likelihood (1-5)	Consequence (1-5)	Initial Risk Rating	Control Measures & Safeguards	Residual Risk Rating	Risk Owner	Standard / Ref	Status
MAH-01	Blowout / Loss of Well Control — uncontrolled hydrocarbon release from wellbore during drilling, completion, or workover operations	Process Safety	2	5	HIGH	BOP tested per API RP 53 and ADNOC CoP. Well control competency (IWCF/IADC certified crew). Kill sheet prepared. MASP calculations completed. Well barrier verification. Emergency Disconnect System (EDS) tested. ADNOC well control approval obtained.	MEDIUM	[Drilling Mgr]	<i>API RP 53, ISO 13703, ADNOC CoP 6, IADC</i>	OPEN
MAH-02	Hydrocarbon leak and fire/explosion on production platform — HAZID/HAZOP-identified release scenarios	Process Safety	2	5	HIGH	HAZOP completed and actioned. ESD system tested per ISO 10418. F&G detection system calibrated. Hot work PTW per ADNOC CoP 2. Deluge system tested per NFPA 11. Monthly emergency	MEDIUM	[HSEQ Mgr]	<i>ISO 13702, ISO 10418, API RP 14C, ADNOC CoP 6, NFPA 11</i>	OPEN



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						shutdown drills. ADNOC PSRM requirements complied with.				
MAH-03	H2S Release — personnel exposure to toxic hydrogen sulphide from reservoir or sour service pipework	Process Safety / Health	2	5	HIGH	Fixed and portable H2S monitoring. SCBA supplied and trained. H2S competency training mandatory. Muster stations positioned upwind. Cascade breathing air system available. H2S emergency response drills. ADNOC CoP 6 compliance verified.	LOW	[HSEQ Mgr]	ADNOC CoP 6, OSHAD-SF TG-20, API RP 49	OPEN
MAH-04	Riser/Flowline failure — structural integrity loss leading to major hydrocarbon release and potential ignition	Process Safety	2	5	HIGH	Riser integrity management plan per ISO 13624. Regular IRM inspection. CP monitoring. ROV inspection program. Emergency shutdown valve (ESDV) functional testing. Risk-based inspection (RBI) program maintained.	MEDIUM	[Integrity Mgr]	ISO 13624, API RP 2RD, ADNOC CoP 6, DNV-ST-F201	OPEN
MAH-05	Mooring System Failure — loss of station keeping leading to platform drift, collision, or riser pull-out	Structural / Process	2	5	HIGH	Mooring integrity management program per API RP 2SK. Mooring tension monitoring. Classification Society inspection intervals maintained. Metocean monitoring with weather window limits. Emergency towing protocol. DP backup where applicable.	MEDIUM	[Marine Supt]	API RP 2SK, ISO 19901-7, ADNOC CoP 15	OPEN
MAH-06	Dropped Objects — lifting operations result in dropped load causing fatality, equipment damage, or subsea infrastructure damage	Mechanical / Safety	3	4	HIGH	Dropped Object Prevention Scheme (DROPS) per ADNOC CoP 25. All lifting equipment certified (SWL tagged). Crane operator competency per API RP 2D. Exclusion zones during lifts. Subsea dropped object assessment. Lifting Plan required for all critical lifts.	MEDIUM	[Lifting Coord]	ADNOC CoP 25, API RP 2D, LOLER, OSHAD-SF TG-02	OPEN

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6. OCCUPATIONAL SAFETY RISKS

SECTION OSH: Occupational Safety & Health Risks										
Risk ID	Risk Description	Category	Likelihood (1-5)	Consequence (1-5)	Initial Risk Rating	Control Measures & Safeguards	Residual Risk Rating	Risk Owner	Standard / Ref	Status
OSH-01	Working at Height — personnel working at elevation on platforms, derricks, and external structures without adequate fall prevention	Occupational Safety	3	4	HIGH	Work at Height permit for all work >1.8m. 100% tie-off rule enforced per IOGP Life-Saving Rules. Harness inspection program. Scaffolding inspection by competent person. Safety net installation. Rescue plan prepared before work. IOGP S-702 compliance.	LOW	[HSEQ Mgr]	OSHAD-SF TG-02, IOGP S-702, ADNOC CoP 2	OPEN
OSH-02	Confined Space Entry — entry into tanks, vessels, pipework with oxygen-deficient, toxic, or flammable atmosphere risk	Occupational Safety	3	4	HIGH	Confined Space Entry Permit per ADNOC CoP 2. Atmospheric testing (O2, LEL, H2S, CO). Standby man at all times. Rescue equipment pre-positioned. SCBA on standby. Competency records maintained. Emergency rescue drill.	LOW	[HSEQ Mgr]	ADNOC CoP 2, OSHAD-SF, ISO 45001	OPEN
OSH-03	Electrical Hazards — live electrical contact, arc flash, inadequate isolation, short circuits in hazardous areas	Occupational Safety	3	4	HIGH	LOTO/LOTOTO isolation per ADNOC CoP 2. Electrical PTW for all live work. Arc flash risk assessment. Area classification per API RP 505 / NFPA 70. Electrical competency verification. Regular ATEX equipment inspection.	LOW	[Electrical Eng]	ADNOC CoP 2, IEC 60079, NFPA 70, API RP 505	OPEN



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OSH-04	Manual Handling & Musculoskeletal Injury — lifting, carrying, repetitive tasks causing injury	Occupational Health	4	2	MEDIUM	Manual handling training. Mechanical aids provided. Weight limit signage. Ergonomic assessment. Pre-employment medical. Work rotation for repetitive tasks. Incident reporting culture.	LOW	[HSEQ Lead]	UAE Labour Law, OSHAD-SF TG-02, ISO 45001	OPEN
OSH-05	Heat Stress & Heat-Related Illness — extreme temperatures (May-October) creating risk of heat exhaustion, heat stroke for offshore workers	Occupational Health	5	3	HIGH	Heat stress management plan per OSHAD-SF. Rest/shade regime mandatory. Acclimatisation period for new arrivals. WBGT monitoring. Potable water at all workstations (min 250ml/15 min). Medical officer onsite. MOHRE outdoor work ban compliance.	MEDIUM	[HSEQ Mgr]	OSHAD-SF, MOHRE Min. Resolution 3/2017, ADNOC CoP 17	OPEN
OSH-06	Diving Operations — risk of decompression sickness, nitrogen narcosis, equipment failure, or entanglement during air/saturation diving	Diving Safety	2	5	HIGH	IMCA D 018 compliance. Dive Supervisor DCBC certified. HSE Part II Dive Medical current. Diving Contractor HSE Plan approved by ADNOC. Lockout procedures for rotating equipment. EHRC (Emergency Hyperbaric Rescue Chamber) available.	MEDIUM	[Diving Supt]	IMCA D 018, ADNOC CoP 6, HSE Diving Regs	OPEN
OSH-07	Chemical Exposure — skin contact, inhalation, or ingestion of drilling chemicals, production chemicals, or solvents	Occupational Health	3	3	MEDIUM	Chemical risk assessment (COSHH). SDS in English and Arabic at point of use. Chemical register maintained. Appropriate PPE. Segregated chemical storage. Spill response kit at storage. ADOSH notification for hazardous chemicals.	LOW	[HSEQ Lead]	OSHAD-SF TG-20, ADNOC CoP 9, UAE Cabinet Res 37/2006	OPEN

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7. ENVIRONMENTAL RISKS

SECTION ENV: Environmental Risks										
Risk ID	Risk Description	Category	Likelihood (1-5)	Consequence (1-5)	Initial Risk Rating	Control Measures & Safeguards	Residual Risk Rating	Risk Owner	Standard / Ref	Status
ENV-01	Oil Spill / Hydrocarbon Release to Sea — from vessel bunkering, pipeline leak, or well fluid release impacting Arabian Gulf marine environment	Environmental	2	5	HIGH	Oil Spill Contingency Plan (OSCP) approved by EAD. Oil spill response equipment pre-positioned. Tier 1/2/3 response established. OSRL membership or contract. SOPEP on all vessels (MARPOL). Oil spill drills. ADNOC notification within 1 hour. EAD notification per Fed Law 24/1999.	MEDIUM	[Environmental Mgr]	MARPOL 73/78, EAD Reg, OPRC, UAE Fed Law 24/1999	OPEN
ENV-02	Produced Water / Drill Cuttings Discharge — non-compliant discharge causing marine pollution	Environmental	3	3	MEDIUM	Zero discharge policy for OBM cuttings. WBM cuttings per MARPOL Annex V. Produced water treated to <15 ppm. Cuttings management plan. Regular water quality sampling. EAD permit compliance. Records maintained.	LOW	[Environmental Mgr]	MARPOL Annex I/V, EAD Reg, ADNOC CoP 9	OPEN
ENV-03	Air Emissions — uncontrolled flaring, diesel generator exhaust, and VOC emissions exceeding EAD air quality limits	Environmental	3	3	MEDIUM	Flaring minimisation plan per ADNOC policy. Continuous emissions monitoring. EAD permit conditions adhered to. Diesel generator stack testing. Low-sulphur fuel procurement. Annual emissions inventory submitted to EAD.	LOW	[Environmental Mgr]	EAD Air Quality Standards, ADNOC CoP 9, UAE Fed Law 11/2006	OPEN



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ENV-04	Waste Mismanagement — improper segregation, storage, or disposal of hazardous/non-hazardous waste offshore causing marine pollution	Environmental	3	3	MEDIUM	Offshore waste management plan. Colour-coded segregation. Waste manifests for hazardous waste. EAD-licensed contractors only. Monthly waste audits. Crew waste management induction.	LOW	[Environmental Mgr]	Cabinet Res 37/2006, EAD Waste Reg, MARPOL Annex V	OPEN
ENV-05	Impact on Protected Marine Species — dugongs, sea turtles, hawksbill reef, mangroves in UAE waters during offshore activities	Environmental / Biodiversity	2	3	MEDIUM	Marine EIA approved by EAD. Exclusion zones around protected marine areas. Marine Mammal Observer (MMO) during piling/seismic. No vessel anchoring on coral. EAD biodiversity monitoring.	LOW	[Environmental Mgr]	EAD Marine Reg, CITES (UAE), UAE Fed Law 24/1999	OPEN
ENV-06	Noise Pollution — underwater noise from piling and subsea construction impacting marine mammals	Environmental	3	2	MEDIUM	Underwater noise impact assessment. Soft-start piling procedure. Exclusion zone monitoring by MMO. Noise monitoring program. Schedule high-noise activities per EAD guidance.	LOW	[Environmental Mgr]	EAD Marine Reg, ADNOC CoP 9, IFC Performance Standards	OPEN

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8. MARINE & TRANSPORT RISKS

SECTION MAR: Marine & Transport Risks										
Risk ID	Risk Description	Category	Likelihood (1-5)	Consequence (1-5)	Initial Risk Rating	Control Measures & Safeguards	Residual Risk Rating	Risk Owner	Standard / Ref	Status
MAR-01	Vessel Collision — OSV collision with installation, PTV, or third-party vessel during transit or offloading	Marine	3	5	HIGH	Marine operations plan per ADNOC CoP 15. Vessel-to-installation safety zones. Marine pilot briefing. Vessel movement log. Anti-collision radar. BRM training for deck officers. Safety Management Certificate (SMC) audit current.	MEDIUM	[Marine Supt]	ADNOC CoP 15, SOLAS, IMO COLREGS, ISM Code	OPEN
MAR-02	Personnel Transfer Failure — man overboard or fall during crew boat transfer, gangway boarding, or helicopter winching in adverse weather	Marine / Safety	3	4	HIGH	ADNOC CoP 15 personnel transfer procedures. Sea state criteria (Hs <=1.5m) for swing rope transfer. Survival suits and lifejackets mandatory. MOB drill monthly. Rescue boat on standby. OPITO HUET training mandatory for all offshore personnel.	MEDIUM	[Marine Supt]	ADNOC CoP 15, SOLAS, IOGP S-714, OPITO HUET	OPEN
MAR-03	Helicopter Incident — emergency landing, ditching, or crash during crew rotation to/from installation	Aviation / Safety	2	5	HIGH	OPITO HUET training mandatory. Helideck per IOGP S-714 / CAP 437. ADCA-registered operators only. Flight following active. Personnel manifest. Medical officer onsite. ERP for helicopter emergency	MEDIUM	[HSEQ Mgr]	IOGP S-714, CAP 437, ADCA, OPITO, ADNOC CoP 7	OPEN

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						including SAR coordination with UAE GCAA.				
MAR-04	Adverse Weather — operations in severe metocean conditions (high seas, lightning, sandstorm, haboob) creating vessel instability	Marine / Safety	3	3	MEDIUM	Metocean monitoring system. Weather downtime limits per operations manual. Vessel master authority to suspend operations. Crane suspended per wind speed criteria (>25 knots). Storm preparedness checklist.	LOW	[Marine Supt]	ADNOC CoP 15, API RP 2MET, ISO 19901-1	OPEN

9. FIRE, EMERGENCY & EVACUATION RISKS

SECTION FIR: Fire, Emergency & Evacuation Risks										
Risk ID	Risk Description	Category	Likelihood (1-5)	Consequence (1-5)	Initial Risk Rating	Control Measures & Safeguards	Residual Risk Rating	Risk Owner	Standard / Ref	Status
FIR-01	Uncontrolled Fire on Offshore Installation — structural fire in accommodation, electrical room, engine room, or process area leading to fatalities and platform loss	Fire Safety	2	5	HIGH	Fire detection (heat, smoke, F&G) per NFPA 72 and ADCD CoP. Fixed suppression (deluge, CO2, foam) per NFPA 11/12. F&G cause-and-effect matrix tested. Fire drills bi-monthly. Hot work fire watch per ADNOC CoP 2. ADCD-approved fire safety system in place.	MEDIUM	[HSEQ Mgr]	ADCD CoP, NFPA 10/11/12/72, ISO 13702, ADNOC CoP 2/6	OPEN
FIR-02	Mass Evacuation Failure — inability to safely evacuate all personnel due to inadequate LSA	Emergency Preparedness	2	5	HIGH	Emergency Response Plan (ERP) approved and exercised. TEMPSC	MEDIUM	[OIM]	SOLAS Ch III, ADNOC CoP 7, ISO 15544,	OPEN

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	maintenance or procedural failures					maintained per SOLAS LSA Code. Liferaft and lifebuoy certification current. Monthly muster drills. Quarterly Abandon Platform drill. ERP submitted to ADNOC HSE. Recovery vessel on standby.			OSHAD-SF EI 05	
FIR-03	Medical Emergency Offshore — serious injury or acute medical condition (cardiac event, trauma) requiring evacuation with limited medical resources	Medical Emergency	3	4	HIGH	Offshore medic (MEDEVAC Level 3 competency) onboard. Sick bay with AED, trauma kit per ADNOC medical requirements. MEDEVAC protocol with nearest hospital. Telemedicine facility. Medical emergency drills quarterly.	MEDIUM	[Medic / OIM]	ADNOC Medical Req, OSHAD-SF EI 05, UAE Labour Law	OPEN

10. WORKFORCE, WELFARE & PSYCHOSOCIAL RISKS

SECTION WKF: Workforce, Welfare & Psychosocial Risks										
Risk ID	Risk Description	Category	Likelihood (1-5)	Consequence (1-5)	Initial Risk Rating	Control Measures & Safeguards	Residual Risk Rating	Risk Owner	Standard / Ref	Status
WKF-01	Fatigue — impaired worker performance due to extended hours, shift patterns, or insufficient rest in demanding offshore environment	Occupational Health	4	3	HIGH	Fatigue Risk Management Plan per IOGP. Maximum 12-hour shift and minimum 8-hour rest per ADNOC. Rotation schedules reviewed by HSE Manager. Fitness-for-duty assessment. Supervisor	MEDIUM	[HSEQ Mgr]	OSHAD-SF, UAE Labour Law Art. 65, ADNOC CoP 17	OPEN

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						monitoring. No lone working when fatigued.				
WKF-02	Mental Health & Psychosocial Stress — psychological impact due to isolation, extended rotations, regional conflict conditions	Occupational Health	3	3	MEDIUM	Employee Assistance Programme (EAP). Mental health awareness training. Confidential counselling service. Open-door reporting culture. Regular management check-ins. ADNOC worker welfare compliance.	LOW	[HR / HSEQ]	ISO 45001, OSHAD-SF, ADNOC CoP 17, UAE Labour Law	OPEN
WKF-03	Migrant Worker Welfare Violations — non-compliance with UAE worker welfare standards for third-country nationals offshore	HR / Compliance	2	4	MEDIUM	ADNOC Contractor Code of Conduct compliance. MLC 2006 compliance for offshore seafarers. Accommodation per OSHAD-SF standards. No passport retention. MOHRE registration. Welfare officer appointed.	LOW	[HR Manager]	UAE Labour Law, ADNOC CoP 17, MLC 2006, OSHAD-SF	OPEN
WKF-04	Contractor HSE Management Failure — inadequate HSE management by contractors performing high-risk offshore activities	HSE Management	3	3	MEDIUM	Contractor HSE pre-qualification per ADNOC CoP 17. HSE Plan reviewed and approved before mobilisation. Contractor induction and site-specific training. Joint HSE audits. Stop-work authority communicated.	LOW	[HSEQ Mgr]	ADNOC CoP 17, OSHAD-SF, ISO 45001	OPEN

11. PROJECT, QUALITY & MANAGEMENT RISKS

SECTION PRJ: Project, Quality & Management Risks



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Risk ID	Risk Description	Category	Likelihood (1-5)	Consequence (1-5)	Initial Risk Rating	Control Measures & Safeguards	Residual Risk Rating	Risk Owner	Standard / Ref	Status
PRJ-01	Management of Change (MoC) Failure — design, scope, personnel, or procedure changes without formal MoC assessment introducing uncontrolled hazards	Project Management	3	4	HIGH	MoC procedure per ADNOC CoP 16. All changes require formal MoC form, risk assessment, and approvals before implementation. MoC register reviewed weekly. Supervisors trained on MoC triggers. PTW linked to MoC where applicable.	MEDIUM	[Project Mgr]	ADNOC CoP 16, ISO 45001, OSHAD-SF EI 02	OPEN
PRJ-02	Simultaneous Operations (SIMOPs) — concurrent activities (drilling, production, construction, lifting) creating interaction hazards	Project Safety	3	4	HIGH	SIMOPs management plan per ADNOC CoP 22. SIMOPs matrix and interaction risk assessment. Daily coordination meeting mandatory. Traffic light zone access system. OIM approval required. Dedicated SIMOPS Coordinator appointed.	MEDIUM	[SIMOPS Coord]	ADNOC CoP 22, ADNOC CoP 6	OPEN
PRJ-03	Regulatory Non-Compliance — failure to obtain required ADNOC/ADOSH/EAD permits and approvals before commencing activities	Compliance	2	4	MEDIUM	Regulatory compliance matrix maintained. Pre-mobilisation permit checklist. Compliance officer dedicated. ADOSH Certificate of Compliance current. EAD Environmental Permit issued. ADNOC Pre-Qualification current. Permit renewal calendar maintained.	LOW	[Compliance Mgr]	OSHAD-SF, ADNOC HSEMS, EAD Reg, UAE Fed Laws	OPEN
PRJ-04	Inadequate Emergency Preparedness — failure to maintain effective offshore emergency response capability	Emergency Preparedness	2	4	MEDIUM	ERP reviewed annually and post-exercise/incident. Quarterly full emergency drills. ADNOC HSE emergency notification	LOW	[OIM / HSEQ]	ADNOC CoP 7, OSHAD-SF EI 05, ISO 15544, NCEMA	OPEN

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						protocol. Interface with UAE NCEMA, Civil Defence, and Coast Guard.				
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12. RISK ACTION TRACKING LOG

All risk mitigation actions identified during risk assessments, audits, inspections, and incident investigations shall be logged here. Actions must be SMART and tracked to formal closure.

Action ID	Risk Ref	Action Description	Assigned To	Target Date	Completed Date	Status / Comments
ACT-001	[Risk ID]	[Insert action description here]	[Name / Department]	[DD/MM/YYYY]	[DD/MM/YYYY]	[] Open [] Closed [] Overdue
ACT-002	[Risk ID]	[Insert action description here]	[Name / Department]	[DD/MM/YYYY]	[DD/MM/YYYY]	[] Open [] Closed [] Overdue
ACT-003	[Risk ID]	[Insert action description here]	[Name / Department]	[DD/MM/YYYY]	[DD/MM/YYYY]	[] Open [] Closed [] Overdue
ACT-004	[Risk ID]	[Insert action description here]	[Name / Department]	[DD/MM/YYYY]	[DD/MM/YYYY]	[] Open [] Closed [] Overdue
ACT-005	[Risk ID]	[Insert action description here]	[Name / Department]	[DD/MM/YYYY]	[DD/MM/YYYY]	[] Open [] Closed [] Overdue
ACT-006	[Risk ID]	[Insert action description here]	[Name / Department]	[DD/MM/YYYY]	[DD/MM/YYYY]	[] Open [] Closed [] Overdue
ACT-007	[Risk ID]	[Insert action description here]	[Name / Department]	[DD/MM/YYYY]	[DD/MM/YYYY]	[] Open [] Closed [] Overdue
ACT-008	[Risk ID]	[Insert action description here]	[Name / Department]	[DD/MM/YYYY]	[DD/MM/YYYY]	[] Open [] Closed [] Overdue
ACT-009	[Risk ID]	[Insert action description here]	[Name / Department]	[DD/MM/YYYY]	[DD/MM/YYYY]	[] Open [] Closed [] Overdue
ACT-010	[Risk ID]	[Insert action description here]	[Name / Department]	[DD/MM/YYYY]	[DD/MM/YYYY]	[] Open [] Closed [] Overdue

13. RISK REGISTER REVIEW, APPROVAL & SIGN-OFF

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This Risk Register must be formally reviewed and approved prior to project mobilisation and at the frequency defined below. All approvers confirm controls are appropriate and implementable.

Role	Name	Signature	Date	Remarks
HSEQ Lead (Prepared By)	[Name]		[DD/MM/YYYY]	
HSE Manager (Reviewed By)	[Name]		[DD/MM/YYYY]	
OIM / Site Manager	[Name]		[DD/MM/YYYY]	
Project Manager	[Name]		[DD/MM/YYYY]	
Project Director (Approved By)	[Name]		[DD/MM/YYYY]	
ADNOC HSE Representative	[Name]		[DD/MM/YYYY]	
Client Representative	[Name]		[DD/MM/YYYY]	

13.1 Review Frequency

Review Type	Frequency / Trigger	Responsible Party
Routine Review	Monthly minimum during active project	HSEQ Lead
Post-Incident Review	Within 72 hours of any HIPO, LTI, or near miss	HSEQ Manager

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Scope Change Review	Prior to any significant design/scope change (MoC trigger)	HSEQ Mgr + Project Mgr
Regulatory Update Review	Within 30 days of new regulation or ADNOC directive	Compliance Officer
Geopolitical Risk Review	Monthly or following any regional security escalation	HSEQ Mgr + Project Director
Annual Full Review	Annual — complete re-assessment of all risks	Project Director + HSEQ Team

DOCUMENT END — OFFSHORE PROJECT RISK REGISTER

All italic placeholder fields must be completed prior to project mobilisation. This is a live document to be maintained throughout the project lifecycle. Queries: Project HSEQ Lead.