



DRAFT Contingency Plan Guideline

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Foreword

The Canada-Nova Scotia Offshore Petroleum Board and Canada-Newfoundland and Labrador Offshore Petroleum Board (the *Regulators*) have issued this Guideline to assist operators in the development of a Contingency Plan to meet the requirement of section 11 of the *Canada-Newfoundland and Labrador* and the *Canada-Nova Scotia Offshore Area Petroleum Operations Framework Regulations*. This Guideline applies to all works and activities conducted in the *Offshore Area*.

Guidelines are developed to provide assistance to those with statutory responsibilities (including operators, employers, employees, supervisors, providers of services, suppliers, etc.) under the *Accord Acts* and regulations. Guidelines provide an understanding of how legislative requirements can be met. In certain cases, the goals, objectives and requirements of the legislation are such that no guidance is necessary. In other instances, guidelines will identify a way in which regulatory compliance can be achieved.

The authority to issue Guidelines and Interpretation Notes with respect to legislation is specified by subsection 151.1 and 205.067 of the *Canada-Newfoundland and Labrador Atlantic Accord Implementation Act, S.C. 1987, c.3 (C-NLAAIA),* subsection 147 and 201.064 of the *Canada-Newfoundland and Labrador Atlantic Accord Implementation Newfoundland and Labrador Act, RSNL 1990 c. C-2,* subsection 156(1) and 210.068 of the *Canada-Nova Scotia Offshore Petroleum Resources Accord Implementation Act, S.C. 1988, c.28 (CNSOPRAIA)* and subsection 148 and 202BQ(1) of the *Canada-Nova Scotia Offshore Petroleum Resources Accord Implementation (Nova Scotia) Act.* The *Accord Acts* also state that Guidelines and Interpretation Notes are not deemed to be statutory instruments.

For the purposes of this Guideline, these Acts are referred to collectively as the *Accord Acts*. Any references to the C-NLAAIA, the CNSOPRAIA or to the regulations in this Guideline are to the federal versions of the *Accord Acts* and the associated regulations.

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1.0 Acronyms and Abbreviations

2D/3D/4D Two, Three and Four Dimensional

API American Petroleum Institute

CCG Canadian Coast Guard

CCO Chief Conservation Officer

C-NLAAIA¹ Canada-Newfoundland and Labrador Atlantic Accord

Implementation Act

C-NLOPB Canada-Newfoundland and Labrador Offshore

Petroleum Board

CNSOPB Canada-Nova Scotia Offshore Petroleum Board

CNSOPRAIA² Canada-Nova Scotia Offshore Petroleum Resources

Accord Implementation Act

COP Code of Practice

DFO Fisheries and Oceans Canada

ECRC Eastern Canada Response Corporation

FLO Fisheries Liaison Officer

H₂S Hydrogen Sulfide

HSE Health, Safety and Environment

IADC International Association of Drilling Contractors

IMC Instrument Meteorological Conditions

ISO International Organization for Standardization

JRCC Joint Rescue Coordination Center

MEDEVAC Medical Evacuation as interpreted in the *Incident*

Reporting and Investigation Guideline

¹ References to the C-NLAAIA in this Guideline are to the federal version of the Accord Act

² References to the CNSOPRAIA in this Guideline are to the federal version of the *Accord Act*





NAFO	Northwest Atlantic Fisheries Organization
11/1/1/0	NOI LINGUITATION LIGHT AND LINE OF SAIN LALION

NL Newfoundland and Labrador

NS Nova Scotia

OA Operations Authorization

OIM Offshore Installation Manager

OHS Occupational Health and Safety

RPAS Remotely Piloted Aircraft Systems

SAR Search and Rescue

TCAS Terrain Collision Avoidance System

TQSP Atlantic Canada Offshore Petroleum Code of Practice

for the Training and Qualifications of Offshore

Personnel

UNCLOS United Nations Convention on the Law of the Sea

2.0 Definitions

In this Guideline, the terms such as "authorization", "chief conservation officer", "development plan", "employee", "employer", "hazardous substance", "marine installation or structure", "oil", "operator", "passenger craft", "petroleum", "providers of services", "spill", "spill-treating agent", "supervisor" and "supplier", "workplace" and "workplace committee" referenced herein have the same meaning as in the Accord Acts.

Refer also to defined terms in both the Framework Regulations and OHS Regulations.

For the purposes of this Guideline, the following terms have been capitalized and italicized when used throughout. The following definitions apply:

Accord Acts	means the Canada-Nova Scotia Offshore Petroleum Resources Accord Implementation Act and Canada-Nova Scotia Offshore Petroleum Resources Accord Implementation (Nova Scotia) Act, Canada-Newfoundland Atlantic Accord Implementation Act and the Canada-Newfoundland and Labrador Atlantic Accord Implementation (Newfoundland and Labrador) Act
Framework	means the Canada-Newfoundland and Labrador Offshore Area
Regulations	Petroleum Operations Framework Regulations, SOR/2024-25 and



	the Canada-Nova Scotia Offshore Area Petroleum Operations Framework Regulations, SOR/2024-26
Marine Installation or Structure	means a "marine installation or structure" as defined in Part III.1 of the <i>Accord Acts</i> . For the purposes of this Guideline, it generally refers to any installation or vessel used in the conduct of authorized petroleum-related works or activities, excluding support craft.
Offshore Area	means an offshore area as defined by the Accord Acts
OHS Regulations	means the Canada-Newfoundland and Labrador Offshore Area Occupational Health and Safety Regulations, SOR/2021-247 or the Canada-Nova Scotia Offshore Area Occupational Health and Safety Regulations, SOR/2021-248
Regulator	means the Canada-Newfoundland and Labrador Offshore Petroleum Board or the Canada-Nova Scotia Offshore Petroleum Board, as the case may be

3.0 Purpose and Scope

The objective of this Guideline is to assist an operator in the development and submission of a Contingency Plan pursuant to section 11 of the *Framework Regulations* and to provide clarity on the information to be included. Contingency Plans must accompany an application for an OA pursuant to section 8 of the *Framework Regulations*. This includes the following types of works or activities:

- Production
- Well operations (e.g., drilling, completion, intervention, servicing, testing)
- Diving
- Construction
- Geoscientific
- Geotechnical
- Environmental

In addition to the requirements under section 11 of the *Framework Regulations*, operators should also refer to the following:

• Refer to the requirements and associated guidance under Part 3 and sections 41, 48 and 49 of the *Framework Regulations* which includes requirements for documents and emergency response procedures. Refer also to requirements for risk assessments and emergency response equipment in the *Framework Regulations*.





- Refer to the requirements and associated guidance under Part 2, 5, 6 and 32 of the
 OHS Regulations which includes requirements for emergency response plans,
 procedures and equipment.
- The Accord Acts³ permit the public release of Contingency Plans. Therefore, the operator should ensure that any personal information that is protected under federal or provincial privacy legislation and that is necessary to be included within these plans is, to the greatest degree possible, arranged in such a manner to facilitate its ready identification and redaction. The operator should also ensure that any information that may compromise security is excluded and provided to the Regulator by other means.

As there are prescriptive requirements respecting Contingency Plans in the *Framework Regulations* and for Emergency Response Plans in the *OHS Regulations*, this Guideline provides additional clarification of the requirements, as necessary.

The Contingency Plan may be submitted to the *Regulator* as one or several documents. All documents that constitute the Contingency Plan must be listed within the application for an OA that is submitted to the *Regulator*. The document or documents submitted to fulfill the requirement for a Contingency Plan should be the documents that would be used by all persons including contractors, providers of service and suppliers.

If the operator proposes an amendment to the OA to change the scope of activities, the Contingency Plan and any associated risk assessments and measures may require amendment to reflect the changes in the scope. The revised Contingency Plan will be reviewed by the *Regulator* as part of the amendment to the OA and prior to the changes being implemented. Some additional guidance is provided in section 11 of the *Framework Regulations*.

4.0 Types of Events

Pursuant to subsections 11(1) and 11(2) of the *Framework Regulations*, the documents that comprise the Contingency Plan should include all processes in place to prevent, mitigate or respond to all accidental events, including potential emergencies or major accidental hazard events. This should include, as applicable:

4.1 All Works or Activities

4.1.1. Adverse Physical and Environmental Conditions

Procedures should be developed for dealing with adverse physical and environmental conditions (e.g., seismic, foundation stability, temperature, storms, motion). This should include the procedures for suspending operations, making the *Marine Installation or Structure* safe while protecting the environment (which may include disconnection of a floating platform or

³ C-NLAAIA 119(5)(f); CNSOPRAIA 122(5)(f)



flushing risers or flowlines), precautionary reduction of personnel or escape, evacuation and rescue. In addition, any specific physical and environmental condition limitations on the *Marine Installation or Structure* or the operation of equipment (e.g., stability, life-saving appliances, fire protection systems, materials handling equipment, elevators, pressure vessels) should be specified or reference made to where these details are located (e.g., Safety Plan). With respect to measures for dealing with icebergs and pack ice refer to section 4.1.9 of this Guideline. The Contingency Plan should include the above information and make reference to where more detailed information can be obtained.

Refer to the following:

- For all works or activities, refer to the requirements and associated guidance for observations of physical and environmental conditions under section 42 of the *Framework Regulations*.
- For a drilling, production or accommodations installation, refer to:
 - The requirements and associated guidance provided in sections 104, 105, 106, 109 and 156 of the Framework Regulations.
 - In NL, Code of Practice Best Practice Newfoundland and Labrador Offshore Adverse Weather Communications Protocol.

4.1.2. Simultaneous Operations

Procedures should be developed for dealing with activities that should or should not occur at the same time as other activities as they may pose a threat to the safety of personnel, the *Marine Installation or Structure* or the environment. This should include the following:

- Consideration of concurrent activities such as production, drilling, intervention, diving, geoscientific, lifting or other activity. This should also include consideration of activities being undertaken by divers, if applicable.
- Consideration of concurrent activities within the same area that should not proceed at the same time, such as hoisting loads near or above producing wellheads, flowlines, piping, process vessels or pipelines.
- If the activity will be conducted in close proximity to other *Marine Installations or Structures* or other vessels (e.g., fishing vessels and any associated deployed fishing gear) conducting other activities, consideration of implementing measures that have been agreed to with other affected parties to ensure adequate coordination and cooperation. The agreed procedures should be developed and provided to all personnel. In NL, Refer to *One Ocean Protocol for Seismic Survey Programs in Newfoundland and Labrador* for guidance on communications with fishing interests in the area. With respect to interactions with international fishing activities beyond the 200nm limit





and with consent from the operator, the C-NLOPB will provide information regarding the scope, purpose, location, *Marine Installations or Structures* involved, timing and nature of the proposed work or activity to DFO for distribution to the NAFO Secretariat.

Refer to the requirements and associated guidance under Part 10 of the *OHS Regulations* and the requirements under paragraph 4(1)(z) and sections 41 and 49 of the *Framework Regulations*. Consideration should be given to implementing a matrix of permitted operations (as referenced in documents such as the IADC HSE Case) or equivalent to provide a guide to offshore personnel. The determination of activities that can or cannot be conducted simultaneously should be supported by the risk management process.

With respect to geoscientific programs and the associated coordination and cooperation with other agencies or activities occurring in the area at the same time, guidance is provided in the following:

- For 2D, 3D and 4D seismic surveys:
 - The operator should engage with DFO to coordinate geoscientific activities recognizing there may be DFO science surveys ongoing at the same time.
 - Operational arrangements should be developed between the operator, vessel and nearby fishing interests such that they are informed of each other's planned and ongoing activities, if required. The use of a FLO onboard geoscientific vessels and the use of a support vessel (e.g., standby, picket, guard, chase) is considered best practice in this respect. Refer to the requirements and associated guidance under paragraph 41(g) of the Framework Regulations if a support vessel is planned to be used.
 - Where more than one survey operation is active in a region, the operator should arrange for a single point of contact for marine users to facilitate communication.

4.1.3. Release of a Hazardous Substance

Procedures should be developed for dealing with the release of any toxic, flammable or combustible substance or other substance that may pose a hazard to individuals (e.g., oxygen deficient atmosphere, H₂S, flooding, radiation, loss of hydrocarbon containment). If there is a risk, the Contingency Plan should describe the procedures in place and make reference to where more detailed information can be obtained.

Refer to the following:





- For all works or activities, refer to the requirements and associated guidance for chemical substances under section 45 of the *Framework Regulations*.
- For drilling, production and accommodations installations, refer to the requirements and associated guidance for risk assessments under section 107 of the *Framework Regulations*.

For any release that constitutes pollution, refer to section 4.1.4 of this Guideline.

4.1.4. Pollution

Procedures should be developed for dealing with pollution that may have an impact on the environment (including unauthorized discharges of any kind, and petroleum spills). Pollution is any discharge that has not been described and accepted as part of the Environmental Protection Plan referred to in section 10 of the *Framework Regulations*. All programs should have resources and procedures in place that are commensurate with the potential releases associated with the program. If there is a risk, the Contingency Plan should describe the procedures in place and make reference to where more detailed information can be obtained.

4.1.5. Fire

Procedures should be developed for dealing with both hydrocarbon and non-hydrocarbon fires. Guidance on the different types of fire scenarios that should be considered, as applicable, are provided in section 107 of the *Framework Regulations* but operators should note that this section of the regulations is only applicable to an installation. The procedures for dealing with a fire should include steps for suspending operations and evacuation, escape and rescue. The Contingency Plan should describe the procedures in place and make reference to where more detailed information can be obtained.

4.1.6. Explosion

Procedures should be developed for dealing with explosions. Guidance on the different types of explosion scenarios that should be considered, as applicable, are provided in section 107 of the *Framework Regulations* but operators should note that this section of the regulations is only applicable to an installation. The procedures for dealing with an explosion should also include steps for suspending operations and evacuation, escape and rescue. The Contingency Plan should describe the procedures in place and make reference to where more detailed information can be obtained.





4.1.7. Collision with Vessel or Drifting Object

Procedures should be developed for collision avoidance and vessel traffic management and include:

- procedures for dealing with authorized and unauthorized vessels or drifting objects;
- procedures for maintaining a radar watch and for plotting targets;
- criteria for declaring collision alerts;
- procedures to alert intruding vessels;
- the role of the standby vessel and/or support vessels, if available;
- procedures for suspending operations, making the Marine Installation or Structure safe while protecting the environment (which may include disconnection of the floating platform or flushing risers or flowlines e.g., t-times), precautionary reduction of personnel and evacuation, escape and rescue; and
- notification procedures between the *Marine Installation or Structure* and shore base.

The Contingency Plan should describe the procedures in place and make reference to where more detailed information can be obtained.

Refer to the following:

- For all works or activities, refer to:
 - Requirements and associated guidance on safety zones in section 173 of the Framework Regulations.
 - Associated requirements under UNCLOS (www.un.org) and associated Coastal State requirements (e.g., Transport Canada's Collision Regulations and Navigation Safety Regulations).
- For drilling, production and accommodations installations, refer to the requirements and associated guidance for lights and sound-signalling appliances and radars under sections 127 and 128 of the *Framework Regulations*.

4.1.8. Collision with Aircraft

For use of an aircraft to conduct an activity or transport passengers, appropriate collision avoidance procedures and detection systems should be in place to prevent a collision with aircraft, vessels, installations and other obstructions in the flight path. As a minimum, the collision avoidance detection system should include a TCAS. Detailed procedures for IMC approaches to the *Marine Installation or Structure* should be included in the operations manual of the aircraft services provider. Additional guidance on Contingency Plans for using RPAS is provided in the *Remotely Piloted Aircraft System (RPAS) Guidelines*. RPAS operations should have its own operations





manual that includes notification and separation procedures from other aircraft that may be operating within a 7 nm radius of the *Marine Installation* or *Structure* during RPAS flight operations. If there is a risk, the Contingency Plan should describe the procedures in place and make reference to where more detailed information can be obtained.

4.1.9. Collision with Icebergs or Pack Ice

When ice may be present, operators should develop ice management plans that include Contingency Plans for dealing with pack ice and icebergs. This plan should include procedures for suspending operations, making the *Marine Installation or Structure* safe while protecting the environment (which may include disconnection of a floating platform or flushing risers or flowlines), precautionary reduction of personnel and evacuation, escape and rescue. If this is a risk, the Contingency Plan should describe the procedures in place and make reference to where more detailed information can be obtained.

Refer to the following:

- For all works or activities, refer to the requirements and associated guidance under section 42 of the Framework Regulations and ISO 35104 Petroleum and Natural Gas Industries: Arctic Operations – Ice Management.
- With respect to a drilling, production or accommodations installation, refer also to the requirements and associated guidance provided in 104, 106 and 109 of the Framework Regulations.

4.1.10. Loss of or Impairment to Support Craft or Passenger Craft

If aircraft or support vessel(s) are being used, operators should maintain an effective flight following and vessel tracking system to monitor support craft location and status and facilitate mutual aid. Refer also to the requirements for passenger craft under paragraphs 50(2)(a) and 51(2)(a) of the OHS Regulations.

Maritime and aeronautical SAR is under the responsibility of the JRCC. Procedures should be in place for dealing with a lost or overdue support craft and ensuring resources are deployed to locate the missing craft. This should include notification and coordination of associated SAR with JRCC. Procedures should also be in place for dealing with an impairment to a support craft. While some impairments can be mitigated until the support craft returns safely to shore, mitigations might need to be implemented in the interim including contact with the CCG for assistance. For an installation, if there is an impairment to a standby vessel rendering it unable to fulfill its



duties and another vessel is not in the field to assume the standby role, additional mitigations should be implemented to reduce the risk of the offshore activity until another standby vessel is available. Refer to the requirements and associated guidance provided for support craft under paragraph 41(g) of the Framework Regulations. If there is a risk, the Contingency Plan should describe the procedures in place and make reference to where more detailed information can be obtained.

For the use of aircraft, procedures should be in place for dealing with a ditching or crash while enroute to or from a *Marine Installation or Structure* and for dealing with a crash, whether it be onshore at the landing site or near or onboard the *Marine Installation or Structure*. This should include notification and coordination of associated SAR efforts with JRCC. In the NL *Offshore Area*, operators should be maintaining a dedicated SAR helicopter on a 24-hour per day basis in support of helicopter operations. This helicopter should be capable of being airborne within 20 minutes. Equipment should include auto-hover, forward looking infrared radar (FLIR), a search light, a rescue-winch and survival equipment suitable for deployment from the helicopter. ARefer to the requirements and associated guidance provided under *paragraph 41(g)* of the *Framework Regulations* for helicopter operations and support craft. If this is a risk, the Contingency Plan should describe the procedures in place and make reference to where more detailed information can be obtained.

4.1.11. Impairments to Critical Equipment

Procedures should be in place for dealing with the different types of impairments to critical equipment or systems, including impairments that occur as a result of another emergency (e.g., collision, fire, explosion). Depending on the severity, Contingency Plans could include actions such as shutting down high risk activities and making the *Marine Installation or Structure* safe while protecting the environment, reducing the number of personnel onboard to those that are essential, or conducting a full evacuation. Some common types of impairments (or partial impairments) include:

- Loss of structural integrity
- Loss of pressure containment (including loss of support (e.g., tensioners) or integrity of the drilling riser onboard a drilling installation)
- Failure of rotating equipment
- Failure of electrical equipment
- Failure of materials handling equipment
- Dropped or swinging objects
- Loss of watertight integrity

⁴ Refer to recommendations from the Ocean Ranger Inquiry and the Offshore Helicopter Safety Inquiry.





- Loss of station keeping, if equipped
- Loss of stability or ballast control, if equipped
- Loss of communications
- Loss of all power
- Loss of primary or secondary well barrier element during well and production operations, if equipped
- Loss of temporary safe refuge, if equipped
- Loss of fire and gas detection systems
- Loss of passive or active fire protection systems
- Loss of evacuation systems
- Loss of towing equipment, if being towed
- Damage to a subsea production system, pipeline or subsea well equipment due to ice, dragged anchor or dropped objects
- Change in composition of well fluids being produced or injected (e.g., formation of H₂S, hydrates) for a production installation
- Loss of pressure, atmospheric contamination or life support system malfunction of compression chambers, dive bells and associated diver equipment, if equipped
- Loss of dive bell, if equipped

If there is a risk, the Contingency Plan should describe the procedures in place and make reference to where more detailed information can be obtained. For drilling, production and accommodation installations, refer to design operational limits on equipment or systems under section 156 and paragraph 157(1)(d) of the *Framework Regulations*.

For floating drilling and production installations, operators should develop procedures for enacting a controlled or an emergency disconnect and the associated limits at which these plans are activated. These plans should consider any pending collision with a vessel, iceberg or other drifting object and the scenarios noted above, which may require the emergency disconnect system to be activated. The procedures should also consider any environmental releases associated with the disconnect and the reliability of these systems (e.g., independent back-up systems such as separate accumulators or secondary release systems should be in place). The Contingency Plan should describe the procedures in place and include the above information. The Contingency Plan should also make reference to where more detailed information can be obtained. Refer to the requirements and associated guidance in sections 73, 138, 146, 147, 148, 149, 150 and 164 of the *Framework Regulations*.

For any floating accommodations installation or support vessel that may be connected via a gangway to a fixed or floating installation, procedures for enacting an emergency disconnect of the gangway should also be in place. If





there is a risk, the Contingency Plan should describe the procedures in place and make reference to where more detailed information can be obtained.

4.1.12. Events from Adjacent Marine Installations or Structures

For any works or activities conducted in close proximity to another *Marine Installation or Structure* (e.g., diving support vessel adjacent to a production installation) or that is connected to another installation via a pipeline, procedures should be in place to deal with any emergency that may have an impact on the other *Marine Installation or Structure*. Adjacent *Marine Installations or Structures* should consider shutting down normal activities and sharing resources to assist, if needed. The Contingency Plan should describe the procedures in place and make reference to where more detailed information can be obtained.

4.1.13. Security

Procedures should be in place for dealing with bomb threats, cyber attacks and terrorism and for dealing with individuals that may pose a threat to themselves or to others, including while they are being transported. Procedures may be embedded within the *Marine Installation or Structure's* security plan (which need not be submitted); however, the Contingency Plan should describe the procedures in place and make reference to where more detailed information can be obtained. Procedures should also be in place for ensuring that any support services (e.g., vessel shore bases, aircraft services) and any associated onshore control centers are secure.

When there is a risk of cybersecurity attacks, procedures should be in place for preventing and dealing with a cybersecurity attack. Contingencies should be described for when control and monitoring systems have been affected. The Contingency Plan should describe the procedures in place and make reference to where more detailed information can be obtained. Refer to the associated guidance referenced under sections 123, 124, 125 and 169 of the *Framework Regulations*.

4.1.14. Rescue Plans for Individuals

Certain activities may require rescue plans to be in place. Once an activity is undertaken, personnel expected to respond to emergencies should be consulted to ensure they are familiar with the plan and have the necessary resources available. The Contingency Plan should describe the procedures in place and make reference to where more detailed information can be obtained. Examples of rescue plans include:



- Person Overboard Procedures should be in place for dealing with a
 person overboard. A fast rescue boat must be available and held in
 readiness when there is a risk (e.g., work over the side, work on a back
 deck). Refer to the requirements and associated guidance under section
 29 of the OHS Regulations.
- **Fall Protection Rescue** Where fall protection is used, procedures should be in place for rescuing a person that is either suspended by a fall arrest system or in a safety net. Refer to the requirements and associated guidance under Part 22 of the *OHS Regulations*.
- Confined Space Rescue Procedures should be in place for rescuing a person from a confined space or from an area that might be suspected to have become a confined space due to the introduction of a hazardous substance. Refer to the requirements and associated guidance under Part 25 of the OHS Regulations.
- Loss of Dive Bell or Diver For a diving project, procedures should be in place for locating and recovering a dive bell or a lost diver. Refer to the requirements and associated guidance under Part 32 of the OHS Regulations.

4.1.15. Epidemic or Pandemic

Procedures should be in place for dealing with communicable diseases including epidemics or pandemics. These should include procedures for dealing with food poisoning, influenza, etc., where several personnel may need to be treated or quarantined. Refer to the "Social Legislation" as defined and referenced in Part III.1 of the *Accord Acts* for any associated requirements. The Contingency Plan should describe the procedures in place and make reference to where more detailed information can be obtained.

4.1.16. Major Injuries

Procedures should be in place for dealing with medical emergencies, including consultation with onshore physicians (and/or diving physician specialists, as required) and MEDEVACs. The Contingency Plan should describe the procedures in place and include the associated range, limitations and level of care provided on all types of emergency medical evacuation services, whether it is via vessel or aircraft. It should also make reference to where more detailed information can be obtained.

Refer to the following:

- The requirements and associated guidance for first aid in Part 6 of the *OHS Regulations*.
- For diving projects and decompression sickness, refer to the requirements under Part 32 of the *OHS Regulations*.





4.1.17. Fatalities

Procedures should be in place for dealing with a work-related and non-work-related fatality. The Contingency Plan should describe the procedures in place and make reference to where more detailed information can be obtained. In addition, refer to the *Accord Acts* for requirements in relation to disturbance of the scene for serious injuries or fatalities.

4.2 Well Operations

4.2.1. Shallow Gas Release

For well operations, operators should have procedures in place for detecting and dealing with shallow gas releases and the use of a diverter system, if applicable. This should include the measures to be taken to detect shallow gas and the procedure for moving off location and/or evacuation, escape and rescue. The Contingency Plan should include the above information and make reference to where more detailed information can be obtained.

Refer to the requirements and associated guidance under section 73 of the *Framework Regulations*.

4.2.2. Loss of Well Control or Well Barriers

For well operations, operators should develop procedures covering loss of well control or lost circulation and the steps necessary to regain well control, such as drilling a relief well or employing subsea capping and containment. This should include procedures for suspending operations and/or evacuation, escape and rescue. A reference to any standards that are being followed should also be included. The Contingency Plan should include the above information and make reference to where more detailed information can be obtained.

Refer also to the requirements and associated guidance for source control and containment measures and well control under subsection 11(3) and sections 68 and 73 of the *Framework Regulations*.

With respect to subsection 11(3) of the *Framework Regulations*, the following should be described for source control and containment equipment:

- The arrangements for ongoing inspection, testing and maintenance of the equipment to ensure its readiness.
- The arrangements for ensuring that installations or vessels that may be engaged in relief well drilling, deployment or use of subsea



containment equipment or capture of fluids will meet all regulatory requirements of the *Accord Acts* prior to coming into our jurisdiction for the type of activity it is performing. This includes benefits, impact assessments, safety and Certificate of Fitness (if applicable). All efforts should be made to include commitments with respect to these installations or vessels in the Contingency Plan, benefits plans, impact assessments, environmental assessments and the concept safety analysis, as applicable, and to ensure regulatory requirements will be met and that the deployment time is minimized.

Guidance is also provided in the following references:

- NORSOK D-010 Well Integrity in Drilling and Well Operations
- API RP 17W Recommended Practice for Subsea Capping Stacks
- CAPP Best Practice Source Control in Well Planning for Subsea Wells

4.3 Production and Well Operations

4.3.1. Pollution

For production and well operations, the Contingency Plan should document the procedures for responding to spills of crude and refined oil, as well as drilling fluids, if applicable. The Contingency Plan should include:

- Scenarios This should describe both low-probability large-scale events (e.g., blowouts) and more-frequent smaller-scale events. For operations where oil is expected or may be encountered, oil spill trajectory analysis should be provided for a number of spill scenarios at various times of year.
- Description of response resources The types and quantity of response resources should be described, be commensurate with the scenarios referenced and include resources located on site, in the local region and nationally and internationally. For spill scenarios requiring national or international response resources, a check should be conducted using the ready check tool on www.oilspillresponse.com. Arrangements should be made with third party or governmental response resources in advance of the program.
- Spill-treating agents A description of the scenarios under which a spill-treating agent would be used, the likely efficacy of that use, and the likely net environmental benefit that could be achieved for those scenarios should be included. The process for determining incident specific efficacy and likely net environmental benefit to support an application to the CCO for an incident specific approval of that use should be described. Protocols for monitoring the effectiveness of the use of a spill-treating agent should also be included. Requirements for



spill-treating agents are provided in subsection 11(4) and sections 12, 86, 87, 88 and 89 of the *Framework Regulations*. The guidance for these sections of the regulations is provided in section 11 of this Guideline.

- Countermeasures strategies Describe the resources and strategies that will be used for containment and cleanup in reference to the spill scenarios, including strategies for on-water response at and around the spill site, response to any shoreline contamination and operations in any ice infested waters.
- Real-time trajectory modelling Describe the resources available and their capability for implementing a real-time oil spill trajectory model, using real-time wind and current data, to support spill response operations.
- Spill environmental effects monitoring Describe and make reference to plans to monitor the environmental effects of any pollution event that of sufficient size or potential persistence, or both, to constitute a risk of adverse environmental effects to valued components.
- Wildlife response plans Describe and make reference to plans for monitoring impacts to wildlife and responding to those impacts recovery, handling and treating of wildlife (e.g., birds, whales).
- **Environmental information** Environmental information necessary to establish pollution response priorities should be referenced in, or appended to, the plan, including:
 - biological sensitivity charts that identify the areas containing spillsensitive flora and fauna;
 - socio-economic sensitivity charts that indicate local human uses of the area potentially affected by oil spills;
 - physical sensitivity charts that identify shoreline types, coastal currents, ice forms and movement, and the nature of the littoral zone; and
 - o charts depicting operational resources and considerations.

5.0 Escape, Evacuation and Rescue

For all works or activities, procedures should be in place to ensure that all personnel can safely escape and evacuate from the *Marine Installation or Structure* and be rescued. With respect to paragraph 11(2)(f), the Contingency Plan must include a description of the procedures for coordinating and liaising with all relevant emergency response organizations. As an example, all SAR plans should be coordinated with the JRCC, including those involving a helicopter ditching (noted above) or loss of or impairment to a support craft (noted above). In addition:

 For a drilling, production or accommodations installation, refer to the requirements and associated guidance for risk assessments and escape, evacuation and rescue,





support craft and rescue boats under paragraph 41(g) and sections 107, 108, 116, 118, 119, 171 and 172 of the *Framework Regulations*.

• For a diving project, refer to requirements and associated guidance for hyperbaric evacuation under Part 32 of the *OHS Regulations*.

6.0 Reporting of Events

With respect to paragraph 11(2)(b) of the *Framework Regulations*, refer to the requirements and associated guidance for the reporting and classification of incidents in section 179 of the *Framework Regulations*.

7.0 Organizational Structure for Emergencies

With respect to paragraph 11(2)(d) of the *Framework Regulations*, the description of the organizational structure, chain and command and resources should include:

- An organizational chart listing both onshore and offshore positions with interfaces to all external resources.
- Succession plans in the event that a position is impacted by an ongoing accidental event for each emergency response position.
- The associated training and competency for each emergency response position and back-up positions.
- A description of mechanisms in place to ensure that personnel are not assigned to emergency response teams with conflicting emergency response duties.

For emergency response teams and associated emergency response training onboard a *Marine Installation or Structure* and associated support craft, refer to the COP TQSP. Personnel responsible for the management of other emergencies or major accidental events that are not covered by the COP TQSP, such as pollution response, should be trained and competent. Requirements and associated guidance for other *Marine Installations or Structures* is provided in Parts 4 and 5 of the *OHS Regulations*. The authority of designated OIMs under section 193.2 (or 198.2) of the *Accord Acts* or other arrangements for command and control (e.g., role of captain) should be clearly reflected in documentation and communicated to onshore and offshore personnel.

8.0 Resources and Equipment

With respect to paragraphs 11(2)(d) and (f) of the *Framework Regulations*, resources and equipment should include the following, as applicable:

- Standby vessels (for drilling, production and accommodations installations)
- Other support craft and associated equipment
- Relief drilling rig
- Contracted spill response services (e.g., ECRC)
- Containment vessels



- Waste disposal services
- Contracted SAR helicopter
- Contracted medical services
- Emergency medical evacuation services
- Contracted hyperbaric chambers (diving)
- Onshore emergency support centers
- Flight following and vessel tracking services
- Ice management flights and vessels
- Contracted weather forecasting services
- Federal or provincial SAR resources

Further, if the response required to deal with an emergency could escalate and require national or international resources, a tiered structure is commonly used, corresponding to the scale of the incident. This ranges from at-site resources (Tier 1), significant resources sourced nationally (Tier 2 and/or Tier 3) and international resources (Tier 3).

9.0 Mutual Aid Agreements

With respect to paragraph 11(2)(e) of the *Framework Regulations*, when more than one operator is active in an area, operators should have mechanisms to facilitate the effective exchange of information and, if necessary, to share resources such as vessels and helicopters in order to prevent or provide assistance for emergencies. If there are shared resources for spill response, the formal resource sharing agreements among operators and/or response organizations should be described, as well as key countermeasures equipment.

10.0 Drills and Exercises

With respect to paragraph 11(2)(i) of the *Framework Regulations*, the effectiveness of Contingency Plans, including the interface between offshore and onshore and associated response organizations, should be tested periodically through drills and exercises. Operators should be able to demonstrate that all accidental event scenarios are tested routinely and that they have the competence and capability within their organization and the resources to respond to emergencies. The Contingency Plan should describe the frequency of these exercises, including a commitment to conduct an exercise at the onset of the work or activity and regularly thereafter. In addition, refer to the following:

- The requirements and associated guidance for drills and exercises in section 30 of the OHS Regulations.
- If a drill is required to be done by a code or standard that has been adopted, then the drill should be carried out as recommended by that code or standard. In the event of a conflict with the regulations, the more stringent requirements apply.
- Records generated from drills and exercises should measure performance against the
 goals established (e.g., time to muster, time to don an immersion suit, time to
 evacuate). Operators should also be able to demonstrate performance against
 established goals from actual events and associated response times.





- Drills should be held at expected and unexpected times and under different conditions to simulate the unusual conditions that may occur in an actual emergency.
- Refer to the COP TQSP for types and frequencies of drills and for the records to be maintained.
- If there is a risk of a hydrocarbon spill, operators should conduct an oil spill countermeasures exercise prior to the start of the program and annually thereafter.
- Operators may undertake their own training and exercises or participate in group exercises with other Operators (e.g., Synergy), but they are responsible to verify their own readiness.
- With respect to different types and associated frequencies of well control drills that should be conducted, refer to NORSOK D-010 Well Integrity in Drilling and Well Operations and API RP 59 Recommended Practice for Well Control Operations. In addition to the guidance provided in NORSOK and API, periodic weight-up drills should be carried out when using the "wait and weight" method of well control whereby the density of a small quantity of drilling fluid (4.0 8.0 m³) is increased by 120 240 kg/m³ as a test of the equipment, procedures and the crew's proficiency in responding to a well kill situation.

11.0 Spill-Treating Agents

- Refer to the definition of "spill-treating agent" and associated requirements in the *Accord Acts*⁵.
- The list of spill-treating agents that may be used in the *Offshore Area* is the same list that applies in all jurisdictions in Canada *Regulations Establishing a List of Spill-treating Agents (SOR/2016-108)*.

PRE-APPROVAL OF SPILL TREATING AGENTS

- If a spill-treating agent has been identified to be used as a spill response measure, appropriate details are required to be included in the Contingency Plan as per subsections 11(4), (5) and (6) of the *Framework Regulations*. The following should be considered:
 - With respect to paragraph 11(4)(a) of the Framework Regulations, tests can be conducted on an oil that closely resembles the oil at the site. Once the oil at the site becomes available, testing should be repeated.
 - With respect to paragraph 11(4)(b) of the Framework Regulations, an assessment of the environmental costs and benefits of the use of the spill-treating agent must be included along with a list of scenarios for which the use is likely to produce a net environmental benefit.
 - With respect to paragraphs 11(4)(d) and (e) of the Framework Regulations, all equipment, methods, procedures and associated instruction and training for those expected to use spill-treating agents should be described. This should include:

⁵ C-NLAAIA 138.21, 161.1 – 161.5; CNSOPRAIA 142.21, 165.1 – 165.5





- All circumstances or scenarios in which a spill-treating agent could be used.
- The methodology for determining efficacy of a spill-treating agent on a particular oil.
- The methodology for determining efficacy of a spill-treating agent with respect to certain physical and environmental conditions and the associated degradation, aging and emulsification of spilled oils.
- For application of spill-treating agents from support craft (e.g., vessel, aircraft), the method of application, the support craft(s) involved, the associated application equipment and personnel, and their associated instruction and training. If support craft are being accessed nationally or internationally, a description of the arrangements to access same should be provided.
- A description of the location and minimum quantity of all spill-treating agents and time to deploy to the Offshore Area, whether it is located nationally or internationally.
- Criteria for safely working with spill-treating agents.
- Protocols for monitoring the use, effectiveness and environmental effect of spill-treating agents.
- Reference to standards or methodological approaches that were used.
- The requirements for determining the net environmental benefit of a spilltreating agent under section 12 of the Framework Regulations.

APPROVAL OF A DIFFERENT SPILL-TREATING AGENT DURING A SPILL

- With respect to approval of use of a spill-treating agent in response to a spill, refer to the approval process under sections 86, 87, 88 and 89 of the *Framework Regulations*. The following should be considered:
 - The approval of the use of a spill-treating agent by the CCO as part of oil spill response causes other legislation related to deposition of a deleterious substance to be "stood down" in respect of that use as long as the dispersant is used for the purpose and in the manner approved. Also, legislation in respect of the importation of spill-treating agent for "disposal" in Canadian waters and the loading of dispersant onto ships and planes for that "disposal" is also "stood down".
 - At the time of the spill, the operator must make a scenario specific application for the use of a spill-treating agent, which includes sufficient scenario specific information and analysis to allow the CCO to determine the likelihood of a net environmental benefit to be achieved in the scenario. With respect to conditions, this should include both actual and forecasted physical and environmental conditions, including sea state, current, wind and pack ice conditions. The CCO may request additional information and analysis at the time of the spill in making their determination.
- The approved use of a spill-treating agent as part of oil spill response does not remove liability for the damages and costs associated with the spilled oil or the spilled oil treated with dispersant.





12.0 Bibliography

- 1. ABS Guide for Survey and Inspection of Jacking Systems, November 2016
- 2. API RP 17W Recommended Practice for Subsea Capping Stacks, March 2021
- 3. API RP 59 Recommended Practice for Well Control Operations, May 2006 (Reaffirmed 2018)
- 4. CAPP Best Practice Source Control in Well Planning for Subsea Wells, February 2023
- 5. ISO 35104 Petroleum and Natural Gas Industries: Arctic Operations Ice Management, October 2018
- 6. NORSOK D-010 Well integrity in drilling and well operations, December 2021
- 7. One Ocean Protocol for Seismic Survey Programs in Newfoundland and Labrador, February 2013

