PLACES OF REFUGE
CONTINGENCY PLAN
(Ontario Region)

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The Regional Director Marine Safety, Ontario Region is responsible for this document, including any change, correction, or update.

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Regional Director, Ontario Region
Marine Safety

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SECTION 1

NATIONAL PLACES OF REFUGE CONTINGENCY PLAN

The Places of Refuge Contingency Plan (PORCP) applies to all situations where a ship is in need of assistance and requests a place of refuge within Canadian waters. This includes Canada’s internal waters, territorial sea and the Exclusive Economic Zone (EEZ).

The PORCP also applies in the case where a ship is destined for Canada and has reported a problem (a defect, deficiency or a casualty).

The PORCP does not apply to distress situations where the safety of life is involved. In such cases, established search and rescue procedures shall be followed.

TP 14707E “The National Places of Refuge Contingency Plan” is available at the following link: http://www.tc.gc.ca/eng/marinesafety/tp-tp14707-menu-1683.htm
SECTION 2

ONTARIO PLACES OF REFUGE CONTINGENCY PLAN (OPORCP)

PURPOSE
The Ontario Places of Refuge Contingency Plan complements and is consistent with the National Places of Refuge Contingency Plan – TP 14707E and provides policy guidance, sample checklists, and a risk assessment tool to aid in preparing for, and responding to, a vessel requesting a place of refuge or similar events in which a vessel, not in need of immediate Search and Rescue (SAR) assistance, may pose a variety of risks to a port or other area. This plan focuses primarily on the decision process of selecting the lowest risk option for a stricken vessel.

This plan takes into account the International Maritime Organization (IMO) Resolution A.949(23) “Guidelines on Places of Refuge for Ships in Need of Assistance.”

BACKGROUND
There have been a number of places of refuge type incidents that have taken place in Canada such as: Kurdistan – 1979; Dodsland – 1987; Trave Ore – 1989; Glenville – 1990; Eastern Power – 2000; Kitano – 2001. In the absence of a formal approach, such incidents were handled in an ad hoc manner, although more recently the Regional Environmental Emergencies Team (REET), port authorities and the provinces have also been engaged in the process.

In recent years, there have been a few high profile international incidents that have resulted in either a ship pollution disaster, or a near miss of one, involving ships that were refused a place of refuge (e.g., Erika in 1999, Castor in 2000, and Prestige 2002). Consequently, the issue of the provision of a place of refuge to a ship in need of assistance has become a priority for governments worldwide.

On December 5, 2003, the International Maritime Organization (IMO) adopted Guidelines on Places of Refuge for Ships in Need of Assistance (resolution A.949(23)).

The purpose of the IMO Guidelines is “to provide Member Governments, shipmasters, companies and salvors with a framework enabling them to respond effectively and in such a way that, in any given situation, the efforts of the ship master and the shipping company concerned and the efforts of the government authorities involved are complementary. In particular, an attempt has been made to arrive at a common framework for assessing the situation of ships in need of assistance” (ss 1.12, A.949(23)).

The IMO Guidelines recommend that “Coastal States endeavour to establish procedures consistent with these Guidelines by which to receive and act on requests for assistance with a view to authorizing, where appropriate, the use of a suitable place of refuge” (ss.3.4, A.949(23)).
Furthermore, the IMO Guidelines recognize that there are no international obligations for coastal States to provide a place of refuge; however, the Guidelines state that “the coastal State should weigh all the factors and risks in a balanced manner and give shelter whenever reasonably possible” (ss.3.12, A.949(23)). Unlike the situation on sea-coasts however, it is recognized that all vessels in Ontario Region are in territorial waters and are therefore already scrutinized to some degree, closely monitored and tracked by a variety of systems. Therefore there cannot be a question of whether or not a Place of Refuge will be offered to any vessel. An informed decision will have to be made, not excluding the selection of a Place of Refuge with the least foreseeable impact.

Transport Canada is the lead agency for decisions related to a ship in need of assistance and requiring a place of refuge. As such, Transport Canada is responsible for ensuring the IMO Guidelines are taken into account and implemented to the extent possible.

APPLICATION AND SCOPE

The OPORCP applies to all situations where a ship is in need of assistance and/or requires a place of refuge within “Canadian waters” that fall within the region of Ontario. This includes Georgian Bay, the Canadian waters of Lakes Ontario, Erie, St. Clair, Huron and Superior, the Ontario waters of the St. Lawrence, St. Mary’s, St. Clair and Detroit rivers, Hudson and James Bays and all inland waters in the province of Ontario. Where an incident occurs in the vicinity of neighbouring jurisdictions (port authorities, public ports, St. Lawrence Seaway, first nation areas, other provinces or the USA) the situation will be dealt with in consultation with all affected parties with jurisdiction.

The OPORCP also applies in the case of a ship that is within, or destined for, Canadian waters and has a problem (a defect, deficiency or a casualty) whether or not it has been reported by the ship, that may pose a variety of risks to a port or other area.

The OPORCP does not apply to distress situations where the safety of life is involved. In such cases, established search and rescue procedures shall be followed.

Any request that includes a requirement to rescue or to immediately evacuate the crew or other persons on board should be re-directed by the Maritime Assistance Service (MAS) to the Maritime Rescue Coordination Center (MRCC) without delay.

In cases where ship damage has resulted in the discharge of a pollutant or there is an imminent threat of a discharge of a pollutant, the OPORCP would be implemented in conjunction with current response procedures and contingency plans. While decisions concerning a place of refuge fall under the responsibility of Transport Canada, the Canadian Coast Guard (CCG) through the authority of the Minister of Fisheries and Oceans Canada has the responsibility for responding to ship-source pollution spills and will fulfill the federal monitoring and on-scene command role for the Government of Canada.

Environment Canada (EC) is the lead environmental agency responsible for providing scientific advice to the Canadian Coast Guard and Transport Canada on the environmental sensitivity of Places of Refuge under consideration, environmental impacts of using a Place of Refuge and preventive measures required to avoid or lessen environmental impacts.
All of the Great Lakes, connecting channels and shorelines have been characterized and segmented along with sensitivity data that has been documented in the EC Mapping system. This data comprises geomorphological, biological and socio-economic features, as well as pre-determined protection strategies for most susceptible areas.

When TC is considering implementing the OPORCP, TC will contact the EC Ontario Region Duty Officer to obtain environmental information, expertise and advice on the impacts of different courses of action. EC would review the incident details and immediately activate the REET process and bring in other required environmental stakeholder agencies (based on the available time frame) to discuss the options and arrive at a consensus.

In urgent situations, the OPORCP will be followed to the extent possible given the time available for decision making.

In applying the OPORCP, every effort should be made by all involved to cooperate, work closely together, allow for an open exchange of information and build consensus in the decision-making process. Where consensus cannot be reached, the best decision will be made by TC as the lead agency, in conjunction with other authorities with jurisdiction.

The OPORCP is to be applied within the framework of existing laws (local, national and international law).

DEFINITIONS

Hazard:

Means a source of potential harm, or a situation with the potential for causing harm, in terms of human injury; damage to health, property, the environment, and other things of value; or some combination of these (CAN/CSA-Q850-97).

Note: General types of hazards are natural, technical/operational, economic and human. In the case of a place of refuge, some potential hazards could include; poor ship condition and maintenance, damage to the ship’s structure or systems, pollution caused by the ship, an explosion, a collision, grounding, human factors, security risk (i.e., is ship properly certified as per the “International Ship and Port Facility Security (ISPS) Code”?). Additional hazards that may contribute to the potential consequences include; weather and sea conditions, current, tide, navigational hazards and seasonal affects (i.e., ice). A hazard may also generate new hazards.

MAS:

Means a maritime assistance service (MAS), as described in IMO Resolution A.950(23), responsible for receiving reports in the event of incidents and serving as the point of contact between the shipmaster and the authorities of the coastal State in the event of an incident (ss. 1.20, A.949(23)).

Note: The Canadian Coast Guard (CCG), through the CCG Marine Communication and Traffic Services (MCTS) centres, provides the Maritime Assistance Service (MAS) function in Canada.
Place of Refuge:
Means a place where a ship in need of assistance can take action to enable it to stabilize its condition and reduce the hazards to navigation, and to protect human life and the environment (ss. 1.19, A.949(23)).

Risk:
Means the chance of injury or loss as a measure of the probability and severity of an adverse effect to health, property, the environment, or something else of value. (CAN/CSA-Q850-97)

Note: Types of risks in place of refuge incidences could include: pollution, collision, grounding, stranding, sinking, fire, explosion, toxic risk, bio-hazards and security. Depending on the type of risk, the possible adverse effect or consequences could include: fatalities, injuries, damage to the environment, property loss, and economic repercussions (see Annex 4 for areas that could be put at risk).

Risk Scenario:
Means a defined sequence of events with associated frequency and consequences. (CAN/CSA-Q850-97)

Ship in need of assistance:
Means a ship in a situation, apart from one requiring rescue of persons on board, that could give rise to loss of the ship or an environmental or navigational hazard (ss. 1.18, A.949(23)).

Stakeholders:
Means any individual, group, or organization able to affect, be affected by, or believe it might be affected by, a decision or activity. (CAN/CSA-Q850-97).

AUTHORITY FOR DIRECTING SHIPS

TRANSPORT CANADA:
The Canada Shipping Act, 2001 (CSA 2001) provides certain powers to direct a vessel, which would be needed to support the decisions and necessary actions related to a place of refuge incident.

Section 189 of the CSA 2001 authorizes the Minister of Transport to direct a vessel when there are reasonable grounds to believe that a vessel may discharge or may have discharged a prescribed pollutant. The authority to direct a vessel includes directing it to proceed through Canadian waters and the EEZ, or to a particular place, by a certain route and in a specified manner and to unload the pollutant or moor, anchor, or remain at a place. The Minister may authorize a marine safety inspector to exercise this authority pursuant to subsection 11(2) of the CSA 2001.

A marine safety inspector may also direct a vessel pursuant to subsection 211(3) of the CSA 2001. For the purpose of carrying out an inspection to ensure compliance with a relevant provision when necessary, a marine safety inspector may direct the master of a vessel to stop the vessel or proceed to a selected place and moor, anchor or remain there for a reasonable specified period.
With respect to marine security, the Minister may also direct a ship if it is believed to be a threat to security pursuant to section 16(1) of the *Marine Transportation Security Act*.

**FISHERIES AND OCEANS CANADA:**

While decisions concerning a place of refuge fall under the responsibility of Transport Canada, the CCG through the authority of the Minister of Fisheries and Oceans Canada has the responsibility for responding to ship-source pollution spills and will fulfill the federal monitoring or on-scene command role for the Government of Canada. In the case of a ship that has discharged or is likely to discharge a pollutant, the Minister of Fisheries and Oceans Canada has authority under section 180 of the *CSA 2001*, to take such measures as necessary to repair, remedy, minimize or prevent pollution damage. In addition, in the *CSA 2001*, with respect to discharges or threats of discharges, Pollution Response Officers may direct a vessel pursuant to subsection 175.1(2).

Consequently, decisions concerning a place of refuge incident, that also involves ship-source pollution or the imminent threat of pollution, will have to be in conjunction with Fisheries and Oceans Canada officials. To be more clear, despite the fact that the *CSA 2001* empowers officials in both departments to direct a vessel in these circumstances, every attempt will be made to consult with each other and to arrive at a consensus.

The following excerpts from Annex D of the *Memorandum of Understanding Between Transport Canada and Fisheries and Oceans Respecting Marine Transportation Safety and Environmental Protection, April 1996* clarifies the roles and responsibilities for decisions between the two departments that would be relevant in a place of refuge incident:

*Marine Communication & Traffic Services (MCTS) Centres are the recognised communication hubs and are responsible for issuance of clearances to all ships transiting or intending to transit Canadian waters. No vessel, which has identified problems (defective, deficient or a casualty), shall be cleared without the approval of Transport Canada.*

*In the case of serious or potentially serious problems (defective, deficient or a casualty), the clearance will be discussed by the regional heads of the Canadian Coast Guard and Transport Canada Marine Safety.*

*When necessary, Transport Canada and Fisheries & Oceans will jointly determine, together with the appropriate port authority, access of the foregoing vessels to ports of refuge. Transport Canada will determine whether the vessel is seaworthy for the transit to the specified port.*

*Transport Canada and Fisheries & Oceans will jointly approve salvage operations, emergency lightering or discharge of cargo.*
PORT AUTHORITIES, DESIGNATED PUBLIC PORTS AND THE ST. LAWRENCE SEAWAY

It should be noted that sections 58, 76 and 99 of the Canada Marine Act, provide certain officials of port authorities, public ports and the St. Lawrence Seaway with powers to direct a ship, within or about to enter their areas of jurisdiction in particular circumstances.

There are 4 port authorities in Ontario: Toronto, Hamilton, Windsor and Thunder Bay.

Public ports consist of certain areas in and around Collingwood, Cornwall, Kingston, Kingsville, Owen Sound, Port Stanley, Sarnia and Sault Ste. Marie.

Considering the authorities and jurisdictions of the CSA and CSA 2001 and those of the Canada Marine Act, there is a potential for conflicting directions being given to a ship concerning a specific port or other area. In such situations, every effort will be made to agree on a required course of action.

RESPONSIBILITY FOR DECISIONS

The Regional Director TC Marine Safety, Ontario, in collaboration with the Director of Maritime Services, CCG, Central and Arctic is responsible for the decision to grant or deny access to a place of refuge, the selection of the place of refuge and any operational instructions and conditions given to the master or salvors related to the decision.

In cases where the Transport Canada Situation Centre is activated such as when the overall risk level is determined to be high (see Notification and Reporting section and for risk levels see Annex 5), decisions will be subject to approval through the Transport Canada Crisis Management Structure and the Crisis Management Team.

Decisions involving other authorities with jurisdiction (i.e., port authority, local municipal authority) will be subject to approval by the relevant authority.

RESPONSIBILITY FOR THE OPORCP

The Regional Director TC Marine Safety, Ontario is responsible for the updating and maintenance of the OPORCP and for implementing the regional procedures and arrangements to take into account the OPORCP.

NOTIFICATION AND REPORTING

The CCG provides the Maritime Assistance Service (MAS) function in Canada (as per Maritime Assistance Service (MAS), IMO resolution A.950 (23)). This service is intended to act as the point of contact between the ship in need of assistance and the coastal State. All communications with the ship shall go through the appropriate CCG Marine Communication and Traffic Services (MCTS) centre. If considered necessary to facilitate the exchange of information, temporary direct communications may be established between the ship and the risk assessment team, provided both parties agree and the MCTS centre is informed. However, all formal reporting notifications and any other communications required by national and international instruments shall continue to be made through the MCTS centre.
Notification within TC will follow established notification procedures as per Marine Safety’s *General Notification Matrix for a Major Marine Incident*. TC regional and national situation centres shall be activated in accordance with national (e.g., *Marine Safety Procedures for Activation of the Transport Canada Situation Centre (TCSC) in Ottawa*) and regional procedures and should be considered in all cases when either: 1) the overall risk level is considered high; 2) extraordinary measures and resources are needed to mitigate the risk; or 3) when coordinated action of several authorities is required. Where it is impractical to use the regional situation centre, alternative arrangements may be made. Alternative arrangements should be identified in the regional procedures.

The Director, Operations and Environmental Programs, TC Marine Safety and the Regional Director, TC Marine Security shall be notified of all places of refuge incidents.

As soon as a decision is made, the TC Marine Safety Ontario Region should notify and inform all stakeholders as soon as practicable.

**INTERNATIONAL LIAISON**

Close collaboration with other countries will be needed when responding to incidents in waters adjacent to neighboring countries. TC Marine Safety Ontario Region shall make arrangements for notifying and consulting the applicable US authorities when dealing with incidents in boundary waters or where the outcomes could have an impact on the US. Transport Canada is aware of the responsibilities of the Canadian Coast Guard in circumstances when the *Canada-United States Joint Marine Pollution Contingency Plan (JCP)* is activated.

**REGIONAL PROCEDURES, ARRANGEMENTS AND CONTINGENCY PLANS**

TC Marine Safety Ontario Region will bring this OPORCP to the attention of the various port, local, regional authorities so that existing contingency plans and emergency procedures can be reviewed and updated as needed.

The OPORCP will take into account foreseeable accident scenarios that might result from the granting of a place of refuge and what measures might be taken to reduce the consequences. Foreseeable accident scenarios would include, pollution (oil, chemical, toxic), fire, explosion, radiation and biological accidents. Arrangements must be made to have all plans readily available to the risk assessment team (see Decision-Making Process) for consultation in an incident.

**ADVANCE PLANNING AND ASSESSMENTS FOR PLACES OF REFUGE**

The most suitable place of refuge can only be determined after the details of the specific incident are known and thoroughly considered. To pre-designate places of refuge may be of limited value, as the limitations, operational considerations, hazards and associated risks will vary greatly with each incident. Experience in Canada has shown that because no two incidents, and the circumstance surrounding the incident, are very similar, the value of...
pre-planning lies primarily in ensuring information will be readily available (i.e., nautical charts and publications, port information, environmental and sensitivity data), along with the relevant specialists.

Therefore, to expedite the case specific analysis and decision-making process during an incident, TC Marine Safety Ontario Region will conduct a review of its waterfront and shore areas and assemble the information that would be needed to identify and compare suitable places of refuge and have this information readily available in the event of an incident.

Annex 3 contains a list of criteria that could be helpful in identifying the most suitable places of refuge for a particular incident, taking into account the characteristics and facilities needed to address the problem.

In addition, information that will help to facilitate the process of evaluating the risks associated with a casualty at sea, along the coastline or in a place of refuge should also be compiled and measures taken to ensure this information is also readily available in the event of an incident. Annex 4 contains a list of areas (e.g., environmental, socio-economic and safety) that could be put at risk in the event of a casualty.

The above advance planning and assessments for places of refuge will require the involvement and expertise of DFO and EC, and other stakeholders as necessary.

A stand-alone ‘live’ document contains a listing of potential places of refuge in Ontario. This document contains information such as berthing capacity, repair facilities etc. and, when studied in conjunction with the Sensitivity Atlas of EC, will aid in the selection of the place of refuge.

**DECISION-MAKING PROCESS**

In general terms, the following risk assessment decision-making process has three main elements;

1. the ship request/situation (owner/charterer/master/salvor),
2. the risk assessment of the situation and options and
3. the action plan and monitoring its implementation.

An integral part of the decision-making process is continuous consideration to communicate and consult with stakeholders. The process will be well documented throughout. The use of a risk assessment team in the process provides for a joint assessment of the situation involving the necessary authorities, experts and advisers in the evaluation of the situation and the weighing of the risks of the different options.

The decision-making process will be followed to the extent possible under the circumstances. However, it is recognized that each incident will have unique characteristics, dynamics, challenges and circumstances. The decision-making process is intended to be flexible to allow for a case-by-case assessment and to accommodate incidents of all levels of complexities and risk. Therefore, in completing each step in the process, and in the selection of the risk assessment team, those involved in the process should be guided by the importance of the decision to be made and the level of concern regarding the situation.
Recognizing that the situation at sea could deteriorate rapidly with time, a decision will be made as quickly as possible and the situation closely monitored until it is adequately resolved. However, a place of refuge incident will not transpire at such a rate that a collaborative decision making process of some kind cannot be followed.

The decision-making process will determine the most suitable place and appropriate risk control measures implemented.

The risk assessment team and all involved stakeholders will work towards the best operational decision possible fully aware that: (A) it is unlikely that one single option will be acceptable to everyone, and (B), not all the required information may be available or be completely reliable. Documentation of the process is critical.
The following process will facilitate effective and objective decision-making to determine the most suitable course of action:

### PLACES OF REFUGE DECISION-MAKING PROCESS

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<td>Ship Request</td>
<td>1 Obtain the necessary ship information</td>
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<td>2 Describe the problem and associated issues</td>
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<td>3 Identify the risk assessment team and the stakeholders that may need to be consulted or kept informed</td>
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<td>Risk Assessment</td>
<td>4 Preliminary analysis of current situation</td>
<td>Communicate</td>
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<td>4.1 Describe what can happen (risk scenarios, hazards, risks, consequences, probability, urgency)</td>
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<td>4.2 Decide if any immediate action is necessary</td>
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<td>4.3 Decide if an inspection team should be deployed</td>
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<td>5 Identify the Options</td>
<td>Consult</td>
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<td>5.1 Identify feasible places of refuge</td>
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<td>5.2 Consider if anyone should be added to the risk assessment team or the stakeholder list</td>
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<td>6 Estimate the risk for each option</td>
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<td>6.1 Describe what can happen (risk scenarios, hazards, risks, consequences, probability)</td>
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<td>6.2 Estimate the risk level (risk matrix)</td>
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<td>6.3 Identify risk control measures and evaluate their impact on the risk level</td>
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<td>7 Evaluate and compare the options</td>
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<td>Action and Monitor</td>
<td>8 Decide:</td>
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<td>• Grant access to a place of refuge,</td>
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<td>and specify what control measures need to be taken.</td>
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<td>9 Review and agree on the ship’s proposed action plan and monitor the implementation until the situation has been resolved.</td>
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<td>10 Obtain feedback on the effectiveness of the process.</td>
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THE SHIP REQUEST

1 – OBTAIN THE NECESSARY SHIP INFORMATION

The TC Marine Safety regional office, through the CCG-MCTS, will ensure that the ship and/or the owner/charterer/salvor/cargo owner(s) has provided all the initial information needed to assess the initial request and that is required under the IMO Guidelines. 

Annex 1, Part 1 sets out the information that should be provided. For example, masters and salvors are to:

- identify the assistance required;
- identify the reasons for assistance; and
- estimate the consequences of the potential casualty if the ship;
  - remains in the same position,
  - continues on its voyage,
  - reaches a place of refuge

In addition to the information provided by the ship, other information will be needed to support the decision-making process. Ship contact information, ship particulars and current status information will be needed, including information on the condition and capabilities of the ship and details of its cargo. Annex 1, Part 2 contains a list of additional information that may be useful and should be obtained from the ship where relevant.

The Regional Director, TC Marine Safety Ontario may validate any information using whatever means available, not excluding the use of resources of other federal departments, the provinces and territories. For example: Department of National Defense (DND) aircraft and ships, CCG helicopters and ships, Royal Canadian Mounted Police (RCMP) aircraft and small craft. With the involvement of the province, it would be expected that we could call upon their equipment and infrastructure.

Much of this information may have already been provided by the ship because of mandatory reporting requirements of a number of international and national instruments. The international requirements are listed in Annex 1 of the MAS Guidelines (A.950 (23)). Particularly relevant are the mandatory reporting requirements of the following:

- Article 8 and Protocol I of MARPOL sets out the requirements for a coastal State to be informed in the event of an incident involving actual or probable pollution,
- Assembly Resolution A.851(20) provides guidelines for reporting incidents involving dangerous goods, harmful substances and/or marine pollutants,
• *CSA Pollutant Discharge Reporting Regulations, 1995* requires the master of a ship to report any discharge of a pollutant from the ship that occurs or the probability that such a discharge will occur and to provide additional information as requested. These regulations incorporate Resolution A.851(20) and TP9834 “Guidelines for Reporting Incidents Involving Dangerous Goods, Harmful Substances and/or Marine Pollutants,” and

• *CSA Eastern Canada Vessel Traffic Services Zone Regulations, Northern Canada Vessel Traffic Services Zone Regulations* and the *CSA Vessel Traffic Services Zone (VTS) Regulations* require ships about to enter a VTS zone from seaward, and when within a VTS zone, to report such things as ship and route information, ship damage, defects and any discharge or threat of discharge of a pollutant.

2 – DESCRIBE THE PROBLEM AND ASSOCIATED ISSUES

Based on the ship request and information provided, and taking into account Canada’s perspective as the coastal/port State, briefly summarize the problem or main concerns and other associated issues. This information becomes the key statement that will be used in the following steps and will help in identifying those people who can assist and who could be affected. Annex 1, Part 1, will be used to state the problem, issues and comments.

3 – IDENTIFY THE RISK ASSESSMENT TEAM AND THE STAKEHOLDERS THAT MAY NEED TO BE CONSULTED OR KEPT INFORMED

Risk Assessment Team

A regional risk assessment team will be established where possible to assess the requirement for places of refuge. Members are responsible for providing the technical expertise, guidance and research to the team so that the team can complete the necessary analysis and evaluations to advise the Regional Director, TC Marine Safety and to resolve the situation.

Members of the risk assessment team will be selected, as needed, depending on the particular incident. In all cases, the Assistant Commissioner, CCG will be notified, who in turn will assign a CCG member to the risk assessment team as required. For potentially serious incidents, a TCMS *Ship Rapid Assessment Team* of marine surveyors will be established to correlate and evaluate shipboard data and plans to provide rapid technical guidance with respect to ship’s residual damage stability and longitudinal strength. In the case of environmental emergencies the multidisciplinary *Regional Environmental Emergency Team (REET)* can provide environmental information and expertise and advice on the impacts of different courses of action. Additional members can be added as the analysis and decision-making process progresses. These may include experts and advisors from other federal departments, provincial and territorial governments, other authorities with responsibility for areas likely to be affected and industry.

TC Marine Safety Ontario will make arrangements for a risk assessment team to be notified and assembled in the event of the need to identify a place of refuge. The analysis, evaluations and decisions will be documented.
Stakeholders

Stakeholders who could be affected by the decision and that may have to be consulted or kept informed will be identified.

List of Potential Risk Assessment Team Members and Stakeholders

Annex 2 contains a list of potential members to the risk assessment team or stakeholders that could affect or be affected by the use of a place of refuge. To facilitate identifying and contacting risk assessment team members and stakeholders, TC Marine Safety Ontario will maintain a contact list of government experts and authorities, organizations, experts and stakeholders that may need to be contacted and participate in a place of refuge incident.

RISK ASSESSMENT

4 – PRELIMINARY ANALYSIS OF CURRENT SITUATION

4.1 Describe what can happen (risk scenarios, hazards, risks, consequences, probability, urgency)

4.2 Decide if any immediate action is necessary

4.3 Decide if an inspection team should be deployed

Based on the information provided, the Risk Assessment Team will conduct a preliminary analysis of the ship’s current situation.

The preliminary analysis is a cursory look at the situation, scoping out the risk problem and getting an indication of the potential risks. The preliminary analysis should briefly cover the following:

4.1 Describe what can happen

Consideration is given to what could happen given the current situation. Risk scenarios can be used to help identify the hazards and the potential risks. From this, the possible adverse consequences of what could happen, and the likelihood of it happening are estimated. The urgency and time frame for decision-making should also be estimated. Examples of hazards and risks are given in the Definitions section.

4.2 Decide if any immediate action is necessary

Depending on the preliminary analysis, immediate action may be necessary to start addressing the risk even though all the critical information and analysis may not yet be available. This might involve taking emergency measures as per existing contingency plans, notifying shipping, providing immediate instructions to the ship to address urgent risks or taking action to complement efforts already underway by the ship.

4.3 Decide if an inspection team should be deployed

An inspection team should board the ship, when appropriate and if time allows, to gather additional evaluation data for further assessment and decision-making. Deploying an inspection team will depend on safety and the situation. Based on the team’s evaluation, the information previously recorded on the ship and its current status (Annex 1, Part 1) is revised accordingly. The input and the analysis of the risks by the inspection team are
integral to each of the remaining steps in the decision-making process. Team members may have to remain on board to provide advice, report on actions being taken by the ship or salvor, and to help monitor the condition of the ship.

TC Marine Safety Ontario will have arrangements in place for assembling an inspection team and placing them on the ship. A list of qualified personnel will be maintained that could be called upon to provide this expert shipboard inspection function bearing in mind that the expertise required will depend on the situation.

5 - IDENTIFY THE OPTIONS

5.1 Identify feasible places of refuge

Possible places of refuge are considered that could provide the ship with what it needs to address the problem and to minimize the threat of further damage. The most suitable ones are selected as options for further assessment. Depending on the circumstances, a suitable place of refuge could be a port, an anchorage or a sheltered location near the coast.

A place of refuge may be needed to:
- lighter or transfer the ship’s cargo and bunkers,
- repair damage,
- provide shelter while the ship stabilizes or evaluates its condition, or
- limit the extent of damage or pollution.

The suitability of a place of refuge will also depend on a number of operational requirements specific to the situation such as, depth, distance, approaches, docking facilities and anchoring ground.

Annex 3 provides a list of criteria for identifying places of refuge suitable to the ship.

5.2 Consider if anyone should be added to the risk assessment team or the stakeholder list

Once the feasible options have been identified, the composition of the risk assessment team and list of stakeholders should be reviewed.

6 - ESTIMATE THE RISK FOR EACH OPTION

6.1 Describe what can happen (risk scenarios, hazards, risks, consequences, probability)

6.2 Estimate the risk level (risk matrix)

6.3 Identify risk control measures and evaluate their impact on the risk level

Annex 6 contains a table that could be used to record the risk assessment details from steps 6 and 7 for each option considered.
6.1 Describe what can happen (risk scenarios, hazards, risks, consequences, probability)

As was done previously with the ship’s current situation, for each place of refuge option, risk scenarios are developed by describing what accidents could happen, or what could go wrong. The risk scenarios should identify the underlying hazards and associated risks that may generate or contribute to the potential consequences of bringing the ship into the place of refuge. The voyage from the ship’s current position to the place of refuge should be included in the scenarios. Examples of hazards and risks are given in the Definitions section.

Consideration should also be given to the following options;

- if the ship remains in the same position,
- if the ship continues its voyage

In some cases, more than one risk scenario may need to be identified for a particular option. This would be the case where very different accidents could happen or where a different sequence of events would lead to different risks. For example, one accident scenario may describe the worst foreseeable accident with a certain probability, while another accident scenario would describe an accident with less severe consequences but with a much higher likelihood of occurring. Depending on the severity and likelihood of the different scenarios for a particular option, the assessment team may select the ones for further risk estimation.

The potential consequences are then estimated for each option (i.e., each place of refuge and the 2 other options i.e. to stay in place or continue the voyage). The level of exposure to the hazard(s) will affect the potential consequence. For example, to understand the risk to the environment and the potential consequences from a pollutant (hazard), consideration needs to be given to; the type and quantity of the pollutant, the affect of weather, sea, current, and tide, and the waters and coastlines that will be exposed to the pollutant.

Annex 4 provides a list of some areas that could be put at risk and suffer adverse consequences in the event of a casualty. Three broad categories have been identified:

- health, safety and security
- environmental, and
- socio-economic.

Consideration is given to the probability of the risk scenario happening and estimated. The probability will be a function of such things as; the condition of the ship, exposure to hazards such as weather and sea conditions, and distance and time to a suitable place of refuge.

6.2 Estimate the risk level (risk matrix)

The overall risk associated with each option is estimated by considering the severity of the adverse consequences and the probability of the relevant risk scenario.
Annex 5 provides a method of categorizing the potential consequences and probability. A risk matrix can then be used to assign an overall level of risk for each option. Having an estimate of the level of risk will help in determining appropriate risk control measures and in comparing the risk associated with different options.

6.3 Identify risk control measures and evaluate their impact on the risk level

Once the overall risk has been estimated for each scenario, control measures that could be implemented to reduce the risks to acceptable levels should be considered.

Examples of control measures are:

- use of tugs,
- pilots,
- alternate routes,
- temporary repairs,
- cargo transfer/lightering
- use of pollution response equipment,
- restrictions on access and sea areas,
- contingency plans,
- special conditions,
- operational procedures.

Control options may introduce new risks and costs that will also need to be factored in. Any other costs associated with implementing the options should be included with the consequences.

Control measures will serve to either help prevent the risk (reduce the probability), mitigate the risk (lessen the impact) or both. The control measures available and their effectiveness will also vary with the different options. The probability and the consequences should therefore be reassessed for each option to take into account the affect of the risk control measures and the overall level of risk re-evaluated.

Insurance and Financial Safeguards

The impact of the consequences and the costs may be offset by insurance or other financial safeguards (i.e., financial bond, bank guarantee, indemnity fund, P&I Club). The limits of liability or financial guarantee should be considered and factored in.

7 – EVALUATE AND COMPARE THE OPTIONS

The overall risk levels of the various scenarios are then evaluated and compared and the advantages and disadvantages of each option carefully weighed. In weighing the advantages and disadvantages the following should be considered:

- The effectiveness of each option at addressing the ship emergency;
- The avoidance of the risks associated with the other options;
- The degree of difficulty in implementation of each option;
- The acceptability by the stakeholders of the residual risks and the proposed actions to be taken, including the proposed control measures;
- International and bilateral impacts;
- Legal issues (liability considerations);
- Security

**ACTION AND MONITOR**

**8 – DECIDE**

Grant access to a place of refuge, allow to stay in place or permit to continue the voyage and specify what control measures need to be taken.

Based on the evaluation, a decision is required of the risk assessment team on the course of action and control measures be specified.

**9 – REVIEW AND AGREE ON THE SHIP’S PROPOSED ACTION PLAN AND MONITOR THE IMPLEMENTATION UNTIL THE SITUATION HAS BEEN RESOLVED**

The ship shall prepare an action plan, taking into account the decision reached, together with any control measures that have been decided on.

Once an action plan is agreed on, all authorities and other stakeholders should be notified as soon as possible.

The implementation and the situation should be monitored closely to address changes in the situation that would increase the risks and possibly requiring new decisions and additional control measures. Monitoring should continue until the situation has been resolved.

**10 – OBTAIN FEEDBACK ON THE EFFECTIVENESS OF THE PROCESS**

Once the plan is completed, those involved in the incident should be asked to comment on the event. The feedback can then be recorded and used to make recommendations to the Marine Safety Executive for changes in these guidelines.
## SECTION 3 – ANNEXES

### ANNEX 1 PART 1 (STEPS 2, 3, AND 4)

### INFORMATION ON THE SHIP AND ITS CURRENT STATUS

*Information on the Request*

<table>
<thead>
<tr>
<th>Information on the Ship Request (as per A.949(23))</th>
<th>Marine Safety's Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>What assistance is required?</strong>&lt;br&gt;(for example; lightering, pollution combating, towage, stowage, salvage, storage, repairs...)</td>
<td></td>
</tr>
<tr>
<td><strong>State the reasons for the ship's need for assistance.</strong>&lt;br&gt;Cause and extent of damage or problem&lt;br&gt;(for example; fire, explosion, damage to ship, including mechanical or structural failure, collision, pollution, impaired stability, grounding...)</td>
<td></td>
</tr>
<tr>
<td><strong>What are the hazards and associated risk and estimated consequences of potential casualty if the ship:</strong>&lt;br&gt;- remains in the same position,&lt;br&gt;- continues on its voyage,&lt;br&gt;- reaches a place of refuge</td>
<td></td>
</tr>
<tr>
<td><strong>Describe the Problem and Associated Issues:</strong>&lt;br&gt;(Briefly summarize the problem and issues, from Canada's perspective)</td>
<td></td>
</tr>
</tbody>
</table>
ANNEX 1 PART 2 (STEP 1)

INFORMATION ON THE SHIP AND ITS CURRENT STATUS

Additional Ship Information

Ship Contact Information

- Ship Identity – name, flag, identity/IMO/MMSI number
- Master’s name and nationality – Still on board?
- Name of person on the ship making the request, date and time
- Last port of call
- Working language on board
- Security (certificate, level)
- Local representative of the company (name, address, telephone number, email address)
- Registered owner (name, address, telephone number, email address)
- Registered company (name, address, telephone number, email address)
- If bare-boat charterer (name, address, telephone number, email address)
- Classification society local representative (name, address, telephone number, email address)
- Is the ship insured? Ship’s insurers and limits of liability available (name, address, telephone number, email address)
- Local P&I Club representative (name, address, telephone number, email address)

Ship Particulars

- Type of ship
- Size (tonnage), length, beam and draft of ship, air draft
- Year constructed
- Propulsion, thrusters
- Anchoring gear
- Towing Gear
- Fuel (type, quantity)
- Nature and condition of cargo, stores, bunkers, in particular hazardous goods, (type, quantity, condition)
- Ballast
Current Status

- Position of ship (and how determined)
- Course and speed (making way, adrift or at anchor) and route information
- Weather, sea and ice conditions, and forecast weather conditions
- Status of crew/salvors/other (number on board and assessment of human factors, including fatigue)
- Details of any casualties on board or in the vicinity of the ship
- Actual pollution or potential for pollution
- What is the urgency of the situation and the likelihood of the potential casualty
- Sea room (depth, drift, traffic density)
- Has the Classification Emergency Response Unit been contacted and supplied with information?

Ship Condition (damage/defects/deficiencies)

- Seaworthiness of the ship (buoyancy, stability, list, trim)
- Status of propulsion and power generation, and steering
- Status of essential shipborne navigational aids
- Details of changes in ship condition since initial event

Assistance Information

- Master’s/Salvor’s intentions
- Names of vessels in vicinity or assisting in situation
- Response actions taken by a ship (i.e., salvors contacted, engaged, at scene)
- Distance and time to a place of refuge
- Details of what is required from a place of refuge
- Docking ability
- Is anchoring possible
- Can the ship be accessed by helicopter
ANNEX 2 PART 1 (STEP 3)

LIST OF POTENTIAL RISK ASSESSMENT TEAM MEMBERS AND STAKEHOLDERS

- TC Marine Safety (Ship Rapid Assessment Team, ship technical and operational expertise, routing)
- DFO – CCG (response, spill and clean-up expertise)
- DFO (scientific and operational expertise on fisheries, ocean, habitat)
- Environment Canada (Regional Environmental Emergency Team input, weather forecast)
- Ship Inspection Team
- TC Legal Services
- TC Security
- TC Communications
- Provincial authorities
- Municipal authorities
- Port authorities/harbour master
- Classification society
- Emergency services (police, fire)
- Response organization
- Pilots
- Salvage companies
- Shipyards
- Surveyors
- Cargo handling facilities
- Health officials
- Chemical industry
- Canada Customs and Revenue Agency (CCRA)
- Seafarer associations
- Search and Rescue (SAR)
- Department of National Defense (DND)
- Foreign Affairs Canada (FAC)
- US/ authorities
- Flag State
- Parks Canada (marine parks)
- Aboriginal groups
- Shipping industry
- Fishing industry
- Recreational Boating industry
## ANNEX 3 (STEP 5.1)

### CRITERIA FOR SELECTING A SUITABLE PLACE OF REFUGE

<table>
<thead>
<tr>
<th>Potential Requirements</th>
<th>Details</th>
<th>Refuge A</th>
<th>Refuge B</th>
<th>Refuge C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shelter (weather, sea, swell, ice)</td>
<td></td>
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<tr>
<td>Safe anchorage (holding ground, depth)</td>
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<tr>
<td>Facilities/Equipment – reception facilities, transfer facilities i.e., pumps, hoses, barges, lightering</td>
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<tr>
<td>Repair facilities – shipyard, cranes, cargo gear, personnel</td>
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<tr>
<td>Salvage and Towage</td>
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<tr>
<td>Emergency facilities - fire fighting</td>
<td></td>
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<tr>
<td>Docking requirements (draught, length, availability)</td>
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<tr>
<td>Sea room to manoeuvre</td>
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<tr>
<td>Other</td>
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</table>

### Other Place of Refuge Considerations

<table>
<thead>
<tr>
<th>Other Place of Refuge Considerations</th>
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</thead>
<tbody>
<tr>
<td>Navigation (traffic, unobstructed approach, pilots, tides, currents, ice, anchorage)</td>
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<tr>
<td>Assistance nearby, if needed (Oil and chemical response, salvage, towage)</td>
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<tr>
<td>Distance to refuge versus urgency</td>
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<tr>
<td>Accessibility by land, sea, and air</td>
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<tr>
<td>Ability of refuge to contain or limit the spread of pollution</td>
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<tr>
<td>Characteristics of refuge that would reduce the impact of pollution or facilitate clean-up</td>
<td></td>
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<tr>
<td>Emergency Response Capabilities (i.e., SAR, evacuation, medical, HAZMAT)</td>
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<tr>
<td>Is there a site suitable for beaching the problem ship if necessary</td>
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<tr>
<td>Security, ability to restrict area, access</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Weather and Sea Conditions (prevailing wind, tide, current, ice, weather, sea)</td>
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</tbody>
</table>
ANNEX 4 (STEP 6.1)

AREAS THAT COULD BE PUT AT RISK IN THE EVENT OF A CASUALTY

Health, Safety and Security

- Public safety/security - consider distance to populated areas, size
- Persons on board
- Responders
- Salvors
- Persons in vicinity of ship
- Other ships – collision
- Air quality, contamination

Environmental

- Sensitive areas (habitat, species), ecological reserve or protected area,
- Wildlife (marine, terrestrial, avian)
- Waters in vicinity of ship
- Adjacent coastlines
- Neighboring countries (US)

Socio-Economic

- Communities and business interests – consider distance to communities and industrial area
- Impact on fisheries – offshore, approaches, shellfish
- Tourism – coastline, beaches, sightseeing, hotels, waterfront activities
- Public and private property
- Infrastructure – bridges, channels, blockage, dock facilities, other installations
- Port delays/disruption
- Costs – i.e., salvage, environmental clean up, transport, cargo handling/lightering, surveying, pilotage, towage, moorage, harbour dues, specialists, special measures, waste disposal, material damage, personal damage, repatriation of crew/passengers, emergency services, repair and shipyard, removal of wreck
- Marine transportation system
- Offshore oil and gas activities
- The ship and its cargo
ANNEX 5 (STEP 6.2)

PROBABILITY AND SEVERITY OF ADVERSE CONSEQUENCES AND THE OVERALL RISK LEVEL

Estimate Severity of Adverse Consequences:

The severity of the overall consequences associated with a risk scenario can be categorized as follows:

- **Catastrophic**: multiple deaths, multiple major injuries, extreme property or environmental damage, extreme negative impact on the economy, major national or long term impact.
- **Severe**: death, major injuries, severe property or environmental damage, loss of the ship, major risk to safety or restriction to shipping, regional impact.
- **Significant**: many injuries, significant property or environmental damage, short-term consequences, local impact.
- **Minor**: some minor injuries, some property or environmental damage, minor short-term consequences.

Estimate Probability of Adverse Consequence:

The overall probability associated with a risk scenario can be categorized as follows:

- **Highly probable**: almost certain the accident will occur.
- **Probable**: accident likely to occur.
- **Unlikely**: accident could occur.
- **Improbable**: accident not likely to occur.

Estimate the Overall Risk Level

The following risk matrix can be used to help determine and categorize the overall risk level for each option. This estimate can then be used to help compare one option with another.

<table>
<thead>
<tr>
<th>Severity of Adverse Consequence</th>
<th>Probability of Adverse Consequences Over Time</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Highly Probable</td>
</tr>
<tr>
<td>Catastrophic</td>
<td>9</td>
</tr>
<tr>
<td>Severe</td>
<td>8</td>
</tr>
<tr>
<td>Significant</td>
<td>7</td>
</tr>
<tr>
<td>Minor</td>
<td>5</td>
</tr>
</tbody>
</table>

Risk Level: Low (1-3) - Medium (4-6) - High (7-9)
### ANNEX 6 (STEP 5 AND 6)

#### ASSESSMENT DETAILS – (ONE PER OPTION)

<table>
<thead>
<tr>
<th>What is the problem and associated issues: (Step 2)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Option</strong> (i.e., port / place / in position / continues voyage): (Step 5)</td>
</tr>
<tr>
<td>Describe what could happen (risk scenarios, hazards, risks): (Step 6)</td>
</tr>
<tr>
<td><strong>Potential Consequences</strong>: (Step 6, Annex 4):</td>
</tr>
<tr>
<td><strong>Risk Estimation</strong>: (Step 6, Annex 5)</td>
</tr>
<tr>
<td><strong>Control Measures</strong>: (Step 6)</td>
</tr>
<tr>
<td><strong>Risk Evaluation</strong>: (Step 7)</td>
</tr>
</tbody>
</table>
ANNEX 7 – FLOW CHART (COMMUNICATIONS)

Vessel / RP request for assistance (other than Search & Rescue incident)

Marine Communication and Traffic Services (MCTS) - CCG

Transport Canada Marine Safety (TCMS)
Office Hours: 1-519-383-1826
After Hours: TCMS Emergency Duty Officer (EDO) – 1-800-268-0600 ID Code 91377

EC – Duty Officer
Manager – Compliance & Enforcement (TCMS)

SHIP RAPID ASSESSMENT TEAM (TCMS)
- Manager – C&E
- Manager – Technical Services
- Manager – Inspection Services
- District TCC Manager

RISK ASSESSMENT TEAM
- Manager – C&E
- DFO-CCG
- EC-REET
- Others

REGIONAL ENVIRONMENTAL EMERGENCY TEAM (REET)

TCMS - OTTAWA
- DIRECTOR GENERAL
- DIRECTOR – OPERATIONS & ENVIRONMENTAL PROGRAMS

TC - TORONTO
- REGIONAL DIRECTOR GENERAL
- COMMUNICATIONS
- RD - MARINE SECURITY
- SECURITY & EMERGENCY PREPAREDNESS

- USCG DISTRICT COMMANDER
- RCMP
- NATIONAL DEFENCE

ST. LAWRENCE SEAWAY
- PORT AUTHORITIES

FIRST NATIONS
- MUNICIPALITIES

REGIONAL DIRECTOR
TCMS

REGIONAL DIRECTOR General, DFO, Central & Arctic

EC – Duty Officer
Manager – Compliance & Enforcement (TCMS)

RISK ASSESSMENT TEAM
- Manager – C&E
- DFO-CCG
- EC-REET
- Others

REGIONAL ENVIRONMENTAL EMERGENCY TEAM (REET)

TCMS - OTTAWA
- DIRECTOR GENERAL
- DIRECTOR – OPERATIONS & ENVIRONMENTAL PROGRAMS

TC - TORONTO
- REGIONAL DIRECTOR GENERAL
- COMMUNICATIONS
- RD - MARINE SECURITY
- SECURITY & EMERGENCY PREPAREDNESS

- USCG DISTRICT COMMANDER
- RCMP
- NATIONAL DEFENCE

ST. LAWRENCE SEAWAY
- PORT AUTHORITIES

FIRST NATIONS
- MUNICIPALITIES

REGIONAL DIRECTOR
TCMS

REGIONAL DIRECTOR General, DFO, Central & Arctic
## ANNEX 8 – CHECKLIST

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Obtain Situation Report and/or Information from the ship, MCTS, agent or other sources. Commence the <strong>Annex 1</strong> form.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Summarize TCMS’s concerns on hazards and associated issues. Complete <strong>Annex 1</strong> form.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Identify possible risk assessment team members (TC, CCG, EC, USCG, etc.) Identify other interested stakeholders Review potential assessment team members and stakeholders on <strong>Annex 2</strong>.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Preliminary analysis of current situation with the assessment team. Identify the risks, hazards, immediate action needed for POR request. Decide if an inspection team needs to be deployed. Complete <strong>Annex 3</strong> form.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Identify feasibility of each of the potential POR locations using information available <strong>Annex 3</strong> form. Review members of risk assessment team and interested stakeholders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Estimate the risks and hazards for each option for POR. Use <strong>Annex 4</strong> to assist in process. Estimate the risk level using <strong>Annex 5</strong>. Identify risk control measures and their impact. Evaluate and compare POR options.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Evaluate and compare the options for POR. Complete <strong>Annex 6</strong> form - one for each option.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Decision – grant or deny access to a POR with control measures.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Review and agree on ship’s proposed action plan. Monitor implementation of action plan.</td>
<td></td>
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<tr>
<td>10</td>
<td>Debrief POR process with assessment team and stakeholders. Obtain feedback from assessment team on process.</td>
<td></td>
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</tr>
</tbody>
</table>

*Ensure that the entire process for application for places of refuge has been documented thoroughly*

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**Completed by:**

Marine Safety Inspector  
(Print Name)

**Sighted by:**

Manager Compliance and Enforcement  
(Print Name)
SECTION 4 – REFERENCES

1. Transport Canada’s National Places of Refuge Contingency Plan (PORCP), TP 14707E

2. IMO Resolution A.949(23) – Guidelines on Places of Refuge for Ships in need of Assistance

3. IMO Resolution A.950(23) – Maritime Assistance Services (MAS)

4. Memorandum of Understanding Between Transport Canada and Fisheries and Oceans Respecting Marine Transportation Safety and Environmental Protection, April 1996

5. General Notification Matrix for a Major Marine Incident

6. Marine Safety Procedures for Activation of the Transport Canada Situation Centre