## Carbon Monoxide (CO) Incident Response and Investigation Checklist

The two-page checklist that follows is designed to assist officers, investigators, and other first responders in the accurate recognition and reporting of Carbon Monoxide (CO) incidents.

It is not intended to be exhaustive. It covers basic—but critical—actions and information for use in making the initial response, assessment, and determination of the reportability of the suspected or confirmed incident. It can and should be customized to incorporate jurisdiction-specific provisions and contact information.

For more information and resources, go to:

https://www.nasbla.org/nasblamain/lighthouse/get-equipped/co-resources.

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### **INITIAL RESPONSE / SAFETY MEASURES**

**Scene Location** – Carbon monoxide-related accidents occur in various boating environments and include many types of vessels. Victims may be on board the vessel or may have gone missing underwater. Each type of environment and vessel type will have both unique and similar investigative actions. Listed below is a small sample of potential scenes:

- Swimming/drowning from and near vessels with running engines or generators
- o Persons sick or unconscious in/on any vessel underway
- Persons sick or unconscious in/on any anchored or moored vessel with running engines or generators
- Teak surfing or platform dragging type of activities
- o Large numbers of vessels at marine events or gathering locations
- Swimming/drowning from vessel after CO exposure from different scene or activity

#### **Secure the Scene**

There is a significant risk to first responders!
Surviving witnesses may have moderate to high CO exposure – medical attention may be
necessary
Utilize fire/rescue personnel with a self-contained breathing apparatus and CO monitors for
initial entry when enclosed cabin/compartments are part of the scene
Record any measured CO levels
Turn off all internal combustion engines
Open doors, windows, hatches to allow for movement of fresh air
If underwater recovery occurs in/near marinas or docks turn off all shore power as the event
could be electric shock related. The cause of death/drowning may not be known until after an
autopsy. For information on electric shock drownings and a response/investigation checklist,
see <a href="https://www.nasbla.org/nasblamain/lighthouse/get-equipped/esd-resources">https://www.nasbla.org/nasblamain/lighthouse/get-equipped/esd-resources</a>
Remove/recover victims

## **EVIDENCE COLLECTION AND SCENE ASSESSMENT (continues next page)**

#### **Types of Evidence to Secure**

☐ **The victim** – Visual examination, photos, autopsy including carboxyhemoglobin (COHb) test

 If the victim survives the CO event, interviews, statements, and medical records including COHb test will be necessary for the investigation. Activities and location aboard or around the involved vessel will be important information.

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vessel will need to be secured until an inspect multiple vessels to be inspected for the source modifications need to be inspected and docured to detectors are installed in document the number, type, functionality, and of evidence that shows the CO detector was por device completely removed from vessel).  INVESTIGATING THE SOURC  If during the INITIAL RESPONSE preliminary entitles source of CO should be investigated and a victim was introduced to the CO.	•	
document the number, type, functionality, and of evidence that shows the CO detector was provided or device completely removed from vessel).  INVESTIGATING THE SOURC  If during the INITIAL RESPONSE preliminary entire the source of CO should be investigated and a victim was introduced to the CO.	menteu.	
of evidence that shows the CO detector was por device completely removed from vessel).  INVESTIGATING THE SOURC  If during the INITIAL RESPONSE preliminary entire source of CO should be investigated and a victim was introduced to the CO.	the involved vessel, investigators should	
or device completely removed from vessel).  ■ INVESTIGATING THE SOURC  ■ If during the INITIAL RESPONSE preliminary entire the source of CO should be investigated and a victim was introduced to the CO.	d expiration date. Investigators should be aware	
☐ If during the INITIAL RESPONSE preliminary entire the source of CO should be investigated and a victim was introduced to the CO.	ourposely disabled (battery removed, unplugged,	
the source of CO should be investigated and a victim was introduced to the CO.	E OF CARBON MONOXIDE	
victim was introduced to the CO.	vidence shows the possibility of carbon monoxide,	
	determination made as to how or where the	
Were engines or generators being operated p vessels operating engines?	rior to the incident? Were adjacent or nearby	
$\ \ \square$ How long was the operation prior to the incid	ent? Where are the exhausts located and the	
relation between that location and the location	on of the affected victims?	
<ul> <li>It may be necessary to inspect the engines and the bilge of cabin motorboats and house boat</li> </ul>	d exhaust systems looking for exhaust leaks into	
☐ Investigators may need to <u>CAREFULLY</u> re-crea	te the scene/environment by operating the vessel	
in the same manner prior to the incident in or	rder to find exhaust leaks, CO levels, or flow of	
exhaust into the area where the victim was af	ifected.	
<ul> <li>Document the configuration of doors, window</li> </ul>	vs, and hatches prior to rescue personnel entry.	
REPORTING TO THE COAST GUARD		
	Monoxide related injury or fatality, the incident is boating accident and should be submitted to BARD	

For more information and links to resources, see: <a href="https://www.nasbla.org/nasblamain/lighthouse/get-equipped/co-resources">https://www.nasbla.org/nasblamain/lighthouse/get-equipped/co-resources</a>.