

Carbon Monoxide Exposure & Monitoring Program

Policy

It is the policy of Clancy & Theys to not expose workers to concentrations of Carbon Monoxide (CO) that either meets or exceeds the NIOSH Recommended Exposure Limit (REL) of 35 parts per million (ppm) per cubic meter. Engineering controls, such as fans and equipment CO scrubbers, will be utilized in whatever means necessary to ensure compliance with this policy.

Whenever there is a potential for employee exposure to any level of CO, atmospheric sampling will be performed at regular intervals to ensure CO concentrations are kept below the NIOSH REL. If at any time atmospheric monitoring indicates that CO levels have exceeded 25 ppm, all employees including subcontractors in the affected area will be evacuated and measures will be taken to reduce concentrations to below 25 ppm before allowing workers to return. In order to comply with this policy and the OSHA standards C&T will utilize a [CO Exposure & Monitoring Evaluation Form](#) any time there is a potential for CO exposure.

Responsibility

C&T Project Superintendent

- Ensure compliance with this policy and the OSHA standards.
- Notify the C&T EH&S Department if a potential CO hazard is recognized.
- Procure atmospheric monitoring equipment from the C&T EH&S Department.
- Ensure the [CO Exposure & Monitoring Evaluation Form](#) has been completed.
- Ensure all affected C&T employees are properly trained.
- Verify through written documentation that all affected subcontractor employees are trained in accordance with the OSHA standards.
- Issue [CO Exposure & Monitoring Evaluation Forms](#) and ensure that the form is completed as necessary.
- Ensure CO atmospheric monitoring is being performed and documented. A form has been included in this document for use C&T and Subcontractors.
 - [Atmospheric Sampling Data Collection Record](#)

C&T EH&S Department

- Assist the Project Superintendent in procuring atmospheric testing equipment
- Train personnel in the use of atmospheric testing equipment
- Perform frequent audits and inspection of the workplace

Training

C&T employees will receive training anytime there is a potential for CO exposure. Training will consist of the following:

- CO Hazard Awareness;
- Recognizing potential CO hazards in the workplace;
- Atmospheric Monitoring Equipment use;
 - Specific Authorized C&T Employees
 - Trained in accordance with the manufacturer's guidelines
- Procedures for reporting potential CO hazards;
- First Aid procedures; &
- Evacuation procedures;

Subcontractors are required to provide training for their employees that meet the OSHA Standards in regards to CO hazards, illness prevention, personal protective equipment, etc.

Equipment

In order to ensure adequate atmospheric testing and monitoring, all atmospheric monitoring equipment for use by C&T will be purchased by the C&T EH&S Department and distributed to the affected project.

However, under certain circumstances equipment may need to be purchased by the C&T Project Superintendent or Project Manager. In such cases, all equipment must be approved by C&T EH&S Department prior to purchase.

Carbon Monoxide Exposure & Monitoring Evaluation Form

Project Name & Number:

Date:

Person Completing this Evaluation:

Contact Information:

Describe the potential situation(s) where carbon monoxide (CO) exposure may occur:

List the employer(s) (Company) creating the potential CO exposure hazard:

Indicate the protective measures to be taken:

Install CO filters on CO emitting equipment

Provide additional ventilation

Install Engineering Controls to exhaust CO

Other:

Atmospheric testing will be conducted by the creating employer'(s) qualified person:

- Prior to each shift;
- When new or additional CO emitting equipment is introduced into the work area;
- At regularly scheduled intervals throughout the work shift, but no less than every 2 hours;
- Utilizing atmospheric sampling equipment that can provide data which allows the user to make an accurate CO exposure assessment and ensure compliance with the OSHA standards.
- Equipment intended for "household use" will not be acceptable.
- A copy of all documentation regarding atmospheric sampling will be submitted daily to the C&T Project Superintendent.

If at any time, CO levels exceed 25 ppm, the area will be evacuated of all persons. Measures will then be taken by the exposing employer to reduce the concentration of CO in the affected area to below 25 ppm.

Atmospheric Sampling Data Collection Record

Date:
Project Name:
Person performing air sampling:
Manufacturer & Model of the sampling equipment being used:

Specific area where sampling was performed:

Time ➡								
Sampling For: ▼	▼ Sampling Results ▼							
Oxygen	%	%	%	%	%	%	%	%
Flammables	%	%	%	%	%	%	%	%
Hydrogen Sulfide	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Carbon Monoxide	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Specific area where sampling was performed:

Time ➡								
Sampling For: ▼	▼ Sampling Results ▼							
Oxygen	%	%	%	%	%	%	%	%
Flammables	%	%	%	%	%	%	%	%
Hydrogen Sulfide	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Carbon Monoxide	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm