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|-------------------------------|---|--------------|
| Date: 02-18-08 | Berry Bros. General Contractors, Inc. Corporate Policy Procedure (HSE) Health, Safety & Environmental Policies and Procedures Manual | Section # 04 |
| Page: 1 of 4 | | Doc # SWP 04 |
| Approver: Joe Berry | | Revision: 1 |
| AIR / GAS CONTAMINANTS | | |

| Contents | Subpart |
|--|----------|
| Purpose | A |
| Respirator Protection | B |
| Regulated Areas and Work Areas Restrictions | C |
| Signs and Markings | D |
| Training | E |
| Recordkeeping | F |
| Compliance Methods | G |
| Gas Meters | H |

SUBPART A – PURPOSE

It is the policy of **BBGCI** to not expose our employees to dangerous high levels or quantities of air / gas contaminants during their normal course of duties. This written plan establishes guidelines to be followed whenever employees could be involved in operations that **may** expose them to potential hazards of air / gas contaminants.

The purpose of this plan is to:

1. Create awareness among our workforce of the potential hazards of air / gas contaminants.
2. Provide a consistent format for training employees on the proper procedures to be used when working with air / gas contaminants.
3. Minimize the possibility of injury or harm to our employees who engage in operations that emit air / gas contaminants.
4. Demonstrate our company's compliance with all requirements regarding operations that emit air / gas contaminants.

SUBPART B - RESPIRATOR PROTECTION

BBGCI institutes a complete respiratory protection program that, at a minimum, complies with the requirements of the OSHA Respiratory Protection Standard (29 CFR 1910.134). This program includes respirator selection, an evaluation of the worker's ability to perform the work while wearing a respirator, the regular training of personnel; respirator fit testing, periodic workplace monitoring, and regular respirator maintenance, inspection, and cleaning.



| | | |
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| Page: 2 of 4 | | Doc # SWP 04 |
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SUBPART C – REGULATED AREAS AND WORK AREAS RESTRICTIONS

The Client has established regulated areas wherever the airborne concentration of contaminants from air / gas contaminants operations exceeds, or can reasonably be expected to exceed, the permissible exposure limits (PEL).

BBGCI will insure all employees are aware of the Owners contingency plan provisions including evacuation routes and alarms. Employees will also participate in emergency evacuation drills and practice rescue procedures when the client / owner conducts their drills.

SUBPART D – SIGNS AND MARKINGS

When necessary, signs and markings shall be used to identify hazardous conditions relating to the emission of air / gas contaminants throughout the facility. The use of signs and tags is a supplemental means to prevent accidental injury or illness to employees who are exposed to hazardous or potentially hazardous conditions, equipment, or operations as they relate to the emission of air / gas contaminants.

SUBPART E – TRAINING

Under no circumstances will our employees be involved in operations that emit air / gas contaminants until they have been thoroughly trained in the hazards of the particular operation. **BBGCI** employees will be trained before initial assignment and annually thereafter.

Training should include at a minimum (Client Specific):

1. Locations of alarm stations.
2. Air / Gas monitoring equipment- portable and fixed detection.
3. Gas alarms.
4. Air / Gas hazards- characteristics of gases, to include oxygen deficiency, oxygen or nitrogen enrichment, carbon monoxide and hydrogen sulfide at a minimum. Hazard training must also include any plant or department specific gases of concern. The training must include signs and symptoms of overexposure.
5. Personnel rescue procedures.



Date: 02-18-08

Page: 3 of 4

Approver: Joe Berry

**Berry Bros. General Contractors, Inc.
Corporate Policy Procedure**

**(HSE) Health, Safety & Environmental
Policies and Procedures Manual**

Section # 04

Doc # SWP 04

Revision: 1

AIR / GAS CONTAMINANTS

- 6. Use and care of self-contained breathing apparatus (SCBA) - includes donning and emergency procedures (if applicable).
- 7. Evacuation procedures.
- 8. Staging areas – primary and secondary.

SUBPART F – RECORDKEEPING

All training will be documented and available for review if needed.

SUBPART G – COMPLIANCE METHODS

Determine and implement administrative or engineering controls whenever feasible.

IF such controls are not feasible to achieve full compliance, THEN the use of protective equipment or any other protective measures to keep the exposure of employees to air / gas contaminants within the prescribed limits will be utilized.

When the use of PPE or any protective equipment and/or technical measures are used for this purpose, an industrial hygienist or other technically competent qualified person will be used to help determine what PPE or equipment should be used.

Note: IF respirators are used, THEN comply with 1910.134 (see the Respiratory Protection topic) with regards to their use.

SUBPART H – GAS METERS

In the event that **BBGCI** hands are / may be exposed to high levels of air / gas contaminants; the client will be responsible for providing individual air / gas meters for employees to use because it is **BBGCI** policy to not have our employees work in dangerous high levels or quantities of air / gas contaminants during their normal course of duties. Therefore, **BBGCI** does not have any personal portable gas detectors.

However, **BBGCI** does provide for a gas meter that detects four different gases (LEL/UEL, Oxygen, CO₂, and H₂S). Employees that use the meter have been



Date: 02-18-08

Page: 4 of 4

Approver: Joe Berry

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Corporate Policy Procedure**

**(HSE) Health, Safety & Environmental
Policies and Procedures Manual**

Section # 04

Doc # SWP 04

Revision: 1

AIR / GAS CONTAMINANTS

trained in competent person training and are familiar with the use and operation of the meters. These meters are utilized for hot work, confined space entry, etc.

Meters are calibrated per the manufacturer's recommendations and daily bump tests are performed if the meter is being used continuously to assure that the meter and alarms are operating correctly. Documentation of calibration is stored on a memory card and available if needed. Meters will have current calibration stickers on each monitors.

Daily bump tests are required to be completed at the beginning of each day the monitor is in use to ensure that the monitor is functioning properly

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