

TOWN OF MOREHEAD CITY

EMERGENCY ACTION PLAN

(Ref: 29CFR1910.38)

INTRODUCTION:

This document is a plan to prepare for workplace emergencies. By auditing the workplace, training employees, obtaining and maintaining the necessary equipment, and by assigning responsibilities, human life and company resources will be preserved. The intent of this plan is to ensure all employees a safe and healthful workplace. Employees assigned specific duties under this plan will be provided the necessary training and equipment to ensure their safety. This plan applies to emergencies that could be reasonably expected in our workplace such as fire/smoke, tornadoes, bomb threats, leaks, etc. Each department or building (if multiple departments are contained in one building) should adapt this plan for individual utilization as needed for emergency situations that may arise.

EMERGENCY PLAN COORDINATORS:

Building/Department	Name/Title	Phone #

Coordinators are responsible for the proper inventory and maintenance of equipment. They may be contacted by employees for further information on this Plan.

PLAN OUTLINE/DESCRIPTION:

- I. **Means of Reporting Emergencies:** All fires and emergencies will be reported by one or more of the following means as appropriate:
 - a. Verbally to the Coordinator during normal working hours.
 - b. By telephone if after hours/weekends.
 - c. By the building alarm system.
 - d. By dialing 911 for fire, police, and EMS response

- II. **Alarm System Requirements:** Alarm system requirements for notifying employees during an emergency are as follows:
 - a. Provides warning for safe escape.
 - b. Can be perceived by all employees.
 - c. Alarm is distinctive and recognizable.
 - d. Employees have been trained on the alarm system.
 - e. Emergency phone numbers are posted.
 - f. Emergency alarms have priority over all other communications.
 - g. Alarm system is properly maintained.

III. **Sounding the Alarm:** The signal for immediate evacuation of the facility will be done via telephone paging or public announcement system, if available in the facility. The alternate means of notification will be done through an established telephone tree or through systematic face-to-face announcements.

IV. **Evacuation Plans:** Emergency evacuation escape route plans (see Appendix A) are posted in key areas of the facility. All employees shall be trained on primary and secondary evacuation routes.

V. **Employee Accountability:** In the event of an evacuation, all occupants shall promptly exit the building via the nearest exit. Go to your designated assembly point and report to your supervisor. Each supervisor (or designee) will account for each assigned employee via a head count. All supervisors shall report their head count to the emergency facility coordinator or to the co-coordinator who will be located at _____ and accessible via cell phone # _____.

VI. **Building Re-Entry:** Once evacuated, no one shall re-enter the building. Once the Fire Department or other responsible agency has notified us that the building is safe to re-enter, then personnel shall return to their work areas.

VII. **Hazardous Weather:** A hazardous weather alert consists of _____.
When a hazardous weather alert is made, all employees shall immediately report to the closest tornado refuge area (see Appendix A). Stay in this area until given the all-clear sign which is a _____.

VIII. **Training:** The personnel listed below have been trained to assist in the safe and orderly emergency evacuation of employees.

Task	Building/Department	Name/Title/Phone#
Fire Extinguisher/Hoses		
Evacuation Assistant		
Emergency Shut-down		

Employee training is provided when this plan is initiated, when employees required responsibilities change, when the plan changes, initially for new hires, and annually for all employees. Subjects to be covered include:

- a. Emergency escape procedures/routes
- b. Fire extinguisher locations and proper use
- c. Head count procedures
- d. Major facility fire hazards
- e. Fire prevention practices
- f. Means of reporting fires/emergencies (use of alarm systems)
- g. Names/titles of Coordinators
- h. Availability of the plan to employees
- i. Housekeeping practices
- j. No smoking areas
- k. Hazardous weather procedures
- l. Special duties as assigned to Coordinators and those listed above.

Written records shall be maintained of all Emergency Action Plan training.

TOWN OF MOREHEAD CITY

FIRE PREVENTION PLAN

(Ref: 29CFR1910.39)

I. POLICY

It is the policy of the Town of Morehead City to provide to employees the safest practical workplace free from areas where potential fire hazards exist. The primary goal of this fire protection program is to reduce or eliminate fire in the workplace by heightening the fire safety awareness of all employees. Another goal of this plan is to provide all employees with the information necessary to recognize hazardous conditions and take appropriate action before such conditions result in a fire emergency.

This fire prevention plan complies with the requirements of 29 CFR 1910.39.

This plan details the basic steps necessary to minimize the potential for fire occurring in the workplace. Prevention of fires in the workplace is the responsibility of everyone employed by the company but must be monitored by each supervisor overseeing any work activity that involves a major fire hazard. Every effort will be made by the company to identify those hazards that might cause fires and establish a means for controlling them.

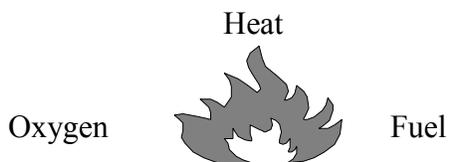
The fire prevention plan will be administered by City Fire Marshal who will compile a list of all major workplace fire hazards, the names or job titles of personnel responsible for fire control and prevention equipment maintenance, names or job titles of personnel responsible for control of fuel source hazards and locations of all fire extinguishers in the workplace. The plan administrator, or safety officer, must also be familiar with the behavior of employees that may create fire hazards as well as periods of the day, month, and year in which the workplace could be more vulnerable to fire.

This fire prevention plan will be reviewed annually and updated as needed to maintain compliance with applicable regulations and standards and remain up-to-date with the state of the art in fire protection. Workplace inspection reports and fire incident reports will be maintained and used to provide corrections and improvements to the plan.

This plan will be available for employee review at any time during all normal working hours.

II. CLASSIFICATION

Fire is a chemical reaction involving the rapid oxidation or burning of a fuel. It needs four elements to occur as illustrated below in the tetrahedron. This is described by the following illustration:



Chemical Reaction

The first component of the tetrahedron is fuel. Fuel can be any combustible material such as: solid (such as wood, paper, or cloth), liquid (such as gasoline) or gas (such as acetylene or propane). Solids and liquids generally convert to gases or vapors before they will burn.

Another component of the tetrahedron is oxygen. Fire only needs an atmosphere with at least 16% oxygen.

Heat is also a component of the tetrahedron. Heat is the energy necessary to increase the temperature of the fuel source to a point in which sufficient vapors are emitted for ignition to occur.

The final side of the tetrahedron represents a chemical chain. When these components are brought together in the proper conditions and preparations, fire will develop. Take away any one of these elements, and the fire cannot exist or will be extinguished if it was already burning.

Fires are classified into four groups according to sources of fuel: Class A, B, C, and D based on the type of fuel source. Table 1 below describes the classifications of fire which can be used in making hazard assessment.

Class A	Ordinary combustible materials such as paper, wood, cloth and some rubber and plastic materials.
Class B	Flammable or combustible liquids, flammable gases, greases and similar materials, and some rubber and plastic materials
Class C	Energized electrical equipment and power supply circuits and related materials.
Class D	Combustible metals such as magnesium, titanium, zirconium, sodium, lithium and potassium.

III. DETERMINING FIRE HAZARDS

This section consists of two steps: first, identifying the existing fire hazards in the workplace and, second, taking action to resolve them. The inspection checklist, in Appendix A, provides a guide for precise fire-safe practices that must be followed. The location of these major fire hazards are denoted in Appendix C. Also included in Appendix C is a listing of the personnel responsible for the maintenance of the equipment and systems installed to prevent or control fires.

Material hazards shall be identified, as evident on the specific Material Safety Data Sheets (MSDS), and labeled on containers as soon as they arrive in the workplace. The identification system shall also include incorporation into the company's hazard communication program.

OXYGEN-ENERGIZED ATMOSPHERES

Oxygen-enriched atmospheres involve operating rooms and anesthesia machines, oxygen tents as used by ambulances, fire and police or rescue squads; hospitals and laboratory supply systems; cutting and welding. If practical, nonflammable anesthetic agents will be used. To prevent dangerous adiabatic heating of flammable anesthetic gases, the cylinder valves will be opened very slowly to allow the gradual introduction of the high pressure gas downstream from the cylinder valve. This will permit a slow buildup of pressure and hence temperature. An aid to the identification of hazards associated with medical agents and gases in NFPA 704, Standard Systems for the Identification of the Fire Hazards of Materials.

INDUSTRIAL TRUCKS

The type of industrial truck being used shall be approved for use within any building storing hazardous materials. All refueling operations shall be conducted outside and away from storage of flammable materials. Areas that are used for maintenance and battery charging of electrical trucks should be separated from storage areas.

IV. STORAGE AND HANDLING PROCEDURES

The storage of material shall be arranged such that adequate clearance is maintained away from heating surfaces, air ducts, heaters, flue pipes, and lighting fixtures. All storage containers or areas shall prominently display signs to identify the material stored within. Storage of chemicals shall be separated from other materials in storage, from handling operations, and from incompatible materials. All individual containers shall be identified as to their contents.

Only containers designed, constructed, and tested in accordance with the U. S. Department of Transportation specifications and regulations are used for storage of compressed or liquefied gases. Compressed gas storage rooms will be areas reserved exclusively for that purpose with good ventilation and at least 1 hour fire resistance rating. The gas cylinders shall be secured in place and stored away from any heat or ignition source. Pressurized gas cylinders shall never be used without pressure regulators.

ORDINARY COMBUSTIBLES

- Wooden pallets will not be stacked over 6 feet tall. If feasible, extra pallets will be stored outside or in separate buildings to reduce the risk of fire hazards.
- Piles of combustible materials shall be stored away from buildings and located apart from each other sufficiently to allow fire fighting efforts to control an existing fire.

FLAMMABLE MATERIALS

- Bulk quantities of flammable liquids shall be stored outdoors and away from buildings. Smaller quantities are subsequently brought into a mixing room where they are prepared for use. The mixing room shall be located next to an outside wall equipped with explosion relief vents. The room shall also have sufficient mechanical ventilation to prevent the accumulation of flammable vapor concentration in the explosive range.

- Small quantities (limited to amount necessary to perform an operation for one working shift) of flammable liquids shall be stored in, and also dispensed from, approved safety containers equipped with vapor-tight, self-closing caps, screens or covers.
- Flammable liquids shall be stored away from sources that can produce sparks.
- Flammable liquids shall only be used in areas having adequate and, if feasible, positive ventilation. If the liquid is highly hazardous, the liquid shall only be used in areas with a local exhaust ventilation.
- Flammable liquids shall never be transferred from one container to another by applying air pressure to the original container. Pressurizing such containers may cause them to rupture, creating a serious flammable liquid spill.
- When dangerous liquids are being handled, a warning sign will be posted near the operation, notifying other employees and giving warning that open flames are hazardous and are to be kept away.
- The storage and usage areas will include fire-resistive separations, automatic sprinklers, special ventilation, explosion-relief valves, separation of incompatible materials, and the separation of flammable materials from other materials.

V. POTENTIAL IGINATION SOURCES

- Ensure that utility lights always have some type of wire guard over them.
- Don't misuse fuses. Never install a fuse rated higher than specified for the circuit.
- Investigate any appliance or equipment that smells strange. Space heaters, microwave ovens, hot plates, coffee makers and other small appliances shall be rigidly regulated and closely monitored.
- The use of extension cords to connect heating devices to electric outlets shall be prohibited.
- If a hot or under inflated tire is discovered, it should be moved well away from the vehicle. As an alternative, the driver should remain with the vehicle until the tire is cool to the touch, and then make repairs. If a vehicle is left with a hot tire, the tire might burst into flames and destroy the vehicle and load.

Table 2 below lists common sources of ignition that cause fires in the workplace, gives examples in each case, and suggests preventive measures.

TABLE 2

Sources of Ignition	Examples	Preventative Measures
Electrical equipment	Electrical defects generally due to Poor maintenance, mostly in wiring Motor switches, lamps, hot elements	Use only approved equipment. Follow National Electric Code. Establish regular maintenance.
Friction	Hot bearings, misaligned or broken machine parts, poor adjustment.	Follow a regular schedule of Inspection maintenance and lubrication.
Open flames	Cutting and welding torches, gas oil burners, misuse of gasoline torches.	Follow established welding precautions. Keep burners clean and properly adjusted. Do not use open flames near combustibles.
Smoking and matches	Dangerous near flammable liquids and in areas where combustibles are stored or used.	Smoke only in permitted areas. Make sure matches are out. Use appropriate receptacles.
Static electricity	Occurs where liquid flows from pipes.	Ground equipment. Use static eliminators. Humidity the atmosphere.
Hot surfaces	Exposure of combustibles to furnaces, Electric lamps or irons.	Provide ample clearance, insulation,air circulation. Check Heating apparatus prior to leaving it unattended.

WELDING AND CUTTING

Welding and cutting will not be permitted in areas not authorized by management.

If practical, welding and cutting operations shall be conducted in well-ventilated rooms with a fire-resistant floor. If this practice is not feasible, _____ shall ensure that the work areas have been surveyed for fire hazards; the necessary precautions taken to prevent fires; and issue a hot permit. This hot permit shall only encompass the area, item and time which is specified on it.

If welding is to be performed over wooden or other combustibles type floors, the floors will be swept clean, wetted down, and covered with either fire-retardant blankets, metal or other noncombustible coverings. Welding will not be permitted in or near areas containing flammable or combustible materials (liquids, vapors, or dusts). Welding will not be permitted in or near closed tanks that contain or have contained flammable liquids unless they have been thoroughly drained, purged and tested free from flammable gases or vapors. Welding shall not begin until all combustible materials have been removed at least 35 feet from the affected areas, or if unable to relocate, covered with a fire retardant covering. Openings in walls, floors, or ducts shall be covered if located within 35 feet of the intended work area. Welding will not be permitted on any closed containers.

Fire extinguishers will be provided at each welding or cutting operation. A trained watcher will be stationed at all times during the operation and for at least 30 minutes following the completion of the operation. This person will assure that no stray sparks cause a fire and will immediately extinguish fires that do start.

OPEN FLAMES

No open flames will be permitted in or near spray booths or spray rooms. If indoor spray-painting work needs to be performed outside of standard spray-painting booths, adequate ventilation will be provided. All potential ignition sources will also be eliminated.

Gasoline or alcohol torches shall be placed so that the flames are at least 18 inches away from wood surfaces. They will not be used in the presence of dusts, vapors, flammable combustible liquids, paper or similar materials. Torches shall never be left unattended while they are burning.

The company has a specific policy regarding cigarette/cigar/pipe smoking in the workplace. Smoking and no-smoking areas will be clearly delineated with conspicuous signs. Rigid enforcement will be maintained at all times. The plan administrator will enforce observance of permissible and prohibited smoking areas for employees and outside visitors to the workplace.

Fire-safe, metal containers will be provided where smoking is permitted. No-smoking areas will be checked periodically for evidence of discard smoking materials.

STATIC ELECTRICITY

The company recognizes that it is impossible to prevent the generation of static electricity in every situation, but the company realizes that the hazard of static sparks can be avoided by preventing the buildup of static charges. One or more of the following preventive methods will be used: grounding, bonding, maintaining a specific humidity level (usually 60-70 percent), and ionizing the atmosphere. Where a static accumulating piece of equipment is unnecessarily located in a hazardous area, the equipment will be relocated to a safe location rather than attempt to prevent static accumulation.

VI. HOUSEKEEPING PREVENTIVE TECHNIQUES

The following are housekeeping techniques and procedures to prevent occurrences of fire.

- Keep storage and working areas free of trash.
- Place oily rags in covered containers and dispose of daily.
- Do not use gasoline or other flammable solvent or finish to clean floors.
- Use noncombustible oil-absorptive materials for sweeping floors.
- Dispose of materials in noncombustible containers that are emptied daily.
- Remove accumulation of combustible dust.
- Don't refuel gasoline-powered equipment in a confined space, especially in the presence of equipment such as furnaces or water heaters.
- Don't refuel gasoline-powered equipment while it is hot.
- Follow proper storage and handling procedures.
- Ensure combustible materials are present only in areas in quantities required for the work operation.
- Clean up any spill of flammable liquids immediately.
- Ensure that if a worker's clothing becomes contaminated with flammable liquids, these individuals change their clothing before continuing to work.
- Post "No Smoking" caution signs near the storage areas.
- Report any hazardous condition, such as old wiring, worn insulation and broken electrical equipment, to the supervisor.

- Keep motors clean and in good working order.
- Don't overload electrical outlets.
- Ensure all equipment is turned off at the end of the work day.
- Maintain the right type of fire extinguisher available for use.
- Use the safest cleaning solvents (nonflammable and nontoxic) when cleaning electrical equipment.
- Ensure that all passageways and fire doors are unobstructed. Stairwell doors shall never be propped open, and materials shall not be stored in stairwells.
- Periodically remove over spray residue from walls, floors, and ceilings of spray booths and ventilation ducts.
- Remove contaminated spray booth filters from the building as soon as replaced, or keep immersed in water until disposed.
- Don't allow material to block automatic sprinkler systems, or to be piled around fire extinguisher locations. To obtain the proper distribution of water, a minimum of 18 inches of clear space must be maintained below sprinkler deflectors. If there are no sprinklers, a 3 foot clearance between piled material and the ceiling must be maintained to permit use of hose streams. These distances must be doubled when stock is piled higher than 15 feet.
- Check daily for any discard lumber, broken pallets or pieces of material stored on site and remove properly.
- Repile immediately any pile of material which falls into an aisle or clear space.
- Use weed killers that are not toxic and do not pose a fire hazard.

VII. FIRE PROTECTION EQUIPMENT

Every building will be equipped with an electrically managed, manually operated fire alarm system. When activated, the system will sound alarms that can be heard above the ambient noise levels throughout the workplace. The fire alarm will also be automatically transmit to the fire department. Any fire suppression or fire detection system will automatically actuate the building alarm system.

The automatic sprinkler system, if applicable, will adhere to NFPA 13, Standard for the Installation of Sprinkler Systems. The sprinkler system and components will be electrically supervised to ensure reliable operation. This includes gate valve tamper switches with a local alarm at a constantly attended site when the valve is closed. If a single water supply is provided be a connection to the city mains, a low pressure monitor is included. If pressure tanks are the primary source of water, air pressure, water level, and temperature shall be supervised. If fire

pumps are provided to boost system pressure, supervision will monitor loss of pump power, pump running indication, low system pressure, and low pump suction pressure.

In hospitals, every patient sleeping room will be provided with an outside window or door that can be opened from the inside; this will allow venting of products of combustion if there is a fire. A specially designed smoke control system can be a substitute for an outside window. Portable fire extinguishers are placed in a building. Fire extinguishers must be kept fully charged and in their designated places. The extinguishers will not be obstructed or obscured from view. A map indicating the locations of all fire extinguishers for this company is located in Appendix E. The fire extinguishers will also be inspected by _____, at least monthly, to make sure that they are in their designated places, have not been tampered with or actuated, and are not corroded or otherwise impaired. Attached inspection tags shall be initialed/dated each month. The location of all hydrants, hose houses, portable fire extinguishers, or other fire protective equipment should be properly marked with arrows and signs painted on the pavement.

VIII. TRAINING

All employees shall be instructed on the locations and proper use of fire extinguishers in their work areas. Employees shall also be instructed as to how to operate the building's fire alarm system, and be familiar with evacuation routes. The training of all employees shall include the locations and types of materials and/or processes which pose potential fire hazards. The training program shall also emphasize the following:

1. Use and disposal of smoking materials
2. The importance of electrical safety
3. Proper use of electrical appliances and equipment
4. Unplugging heat-producing equipment and appliances at the end of each work day
5. Correct storage of combustible and flammable materials
6. Safe handling of compressed gases and flammable liquids (where appropriate)

Ongoing training shall include regularly scheduled fire drills. Training documentation shall be place in Appendix D.

Appendix A

FIRE PREVENTION CHECKLIST

This checklist should be reviewed regularly and kept up-to-date.

ELECTRICAL EQUIPMENT

- No makeshift wiring
- Extension cords serviceable
- Motors and tools free of dirt and grease
- Lights clear of combustible materials
- Safest cleaning solvents used
- Fuse and control boxes clean and closed
- Circuits properly fused or otherwise protected
- Equipment approved for use in hazardous areas (if required)

FRICTION

- Machinery properly lubricated
- Machinery properly adjusted and/or aligned

SPECIAL FIRE-HAZARD MATERIALS

- Storage of special flammable isolated
- Nonmetal stock free of tramp metal

WELDING AND CUTTING

- Area surveyed for fire safety
- Combustible removed or covered
- Permit issued

OPEN FLAMES

- Kept away from spray rooms and booths
- Portable torches clear of flammable surfaces
- No gas leaks

PORTABLE HEATERS

- Set up with ample horizontal and overhead clearances
- Secured against tipping or upset
- Combustibles removed or covered
- Safely mounted on noncombustible surfaces
- Use of steel drums prohibited
- Not used as rubbish burners

HOT SURFACES

- Hot pipes clear of combustible materials
- Ample containers available and serviceable
- Soldering irons kept off combustible surfaces
- Ashes in metal containers

SMOKING AND MATCHES

- “No smoking” and “smoking” areas clearly marked
- Butt containers available and serviceable
- No discarded smoking materials in prohibited areas

SPONTANEOUS IGNITION

- Flammable waste material in closed, metal containers
- Flammable waste material containers emptied frequently
- Piled material, dry, and well ventilated
- Trash receptacle emptied daily

STATIC ELECTRICITY

- Flammable liquid dispensing vessels grounded and bonded
- Moving machinery grounded
- Proper humidity maintained

HOUSEKEEPING

- No accumulation of rubbish
- Safe storage of flammables
- Premises free of unnecessary combustible materials
- No leaks or dripping of flammables and floor free of spills
- Passageways clear of obstacles
- Automatic sprinklers unobstructed
- Fire doors unblocked and operating freely

FIRE PROTECTION

- Proper type of fire extinguisher
- Fire extinguisher in proper location
- Access to fire extinguishers unobstructed
- Access to fire extinguishers clearly marked
- Fire protection equipment turned on
- Extinguishing system in working order
- Service date current
- Personnel trained in use of equipment
- Personnel exits unobstructed and maintained

APPENDIX B

INSPECTION LOGS AND FIRE INCIDENT REPORTS

Insert any fire incident reports and inspection records behind this tab.

