



**ISO 14001 Environmental Management System, Health, and Safety Conditions  
Dürr Systems, Inc. – Southfield and Novi Campuses**

Company/Subcontract: \_\_\_\_\_ Date: \_\_\_\_\_

**1.0 GENERAL**

Dürr Systems, Inc. requires that Contractors follow specific procedures, practices, and regulations while doing work at Dürr Systems. It is expressly understood that all references to Contractor herein shall also include its subcontractors and suppliers.

Contractor shall provide protection for all employees, property (including those of Dürr), and the environment and shall perform all work in accordance with:

- Applicable Local, State, and Federal Environmental, Health and Safety Regulations and Standards
- Dürr's ISO 14001 Environmental Management Systems
- Dürr's Health and Safety Program and Procedures
- Best industry practices

Included herein are specific procedures applicable to Dürr Systems, some of which are included in the MIOSHA Standards and/or the contract documents.

If MIOSHA, MDEQ, EPA, or other governing agencies require safety and health protection programs such as respiratory protection, asbestos control, hazard communication, injury and illness recordkeeping, safety training, etc., the Contractor must have these written programs, and upon request, must submit them to Dürr for review and/or audit.

Dürr shall utilize disciplinary action in cases of infractions of environmental, health, or safety rules and it is expected that the Contractor will do the same. Dürr reserves the right to expel any Contractor employee or suspend any project for violating these rules or regulations. Continued infractions of these rules or regulations will necessitate review of the Contractor's fitness for continued work at Dürr Systems.

**2.0 ENVIRONMENTAL, HEALTH, OR SAFETY INDOCTRINATION**

2.1 All Contractor's employees, prior to admittance to Dürr Systems shall receive an indoctrination by a person authorized by Dürr, to familiarize them with Dürr Systems and Dürr's rules and procedures.

2.2 Prior to starting work, each Contractor employee shall receive from their Dürr representative responsible for the project, a thorough orientation of those emergency procedures, safety regulations and hazards specific to the job to be performed.

**3.0 SECURITY**

**3.1 Employee Control**

- a. Each Contractor employee must always keep proper identification available.
- b. Contractor's employees shall limit travel to their designated area of work and are not permitted entry into other areas of Dürr Systems unless specific permission has been given by Dürr.

**3.2 Visitors**

All personnel visiting Contractor employees, e.g., sales representatives, service agencies, and business agents, must register and obtain permission from the Dürr representative or its designee to enter Dürr Systems. Visitors are required to adhere to all requirements imposed on the Contractor. No visitor is to be left unescorted at any time in Dürr Systems.



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**3.3 Dürr Fence**

Whenever a contractor's work will make it necessary to place any equipment closer than 10 feet to any part of the fence, inside or outside, make an opening in the fence, excavate under or near this fence line, or in any way impair Dürr's security afforded by the fence, the Contractor or its assigned craft supervisor must discuss the matter with the Dürr representative before the contemplated work is started.

**3.4 Contractor's Property**

The Contractor must properly identify all tools and equipment. Contractors must lock all toolboxes, tool sheds, fuel pumps, and other equipment at the end of each workday. Dürr accepts no responsibility for lost, stolen, or damaged tools or equipment belonging to Contractor.

**4.0 VEHICLE CONTROL**

4.1 Authorization for entry of vehicles inside Dürr Systems must be obtained from the Dürr representative before admittance.

- a. Vehicles used within Dürr Systems must be equipped with a fire extinguisher and be marked with decals or signs bearing the Contractor's name for identification purposes.
- b. Keys must be left in vehicles when they are parked adjacent to operating Areas within Dürr Systems so that the vehicle may be moved or used in the event of any emergency.
- c. Vehicles authorized to enter and leave Dürr Systems are subject to inspection at any time.
- d. Trucks and construction vehicles manufactured after 1978 with an obstructed rear view must have a properly operating back-up alarm.

4.2 Vehicles will be permitted to enter Dürr Systems for the following purposes only:

- a. To deliver tools, personnel, and materials to job site.
- b. Other vehicles essential to performance of the Contractor, e.g., cranes, construction equipment, etc.

4.3 The speed limit for motor vehicles in Dürr Systems is 15 miles per hour unless otherwise posted. Pedestrians have the right-of-way.

**5.0 CONTRACTOR PERSONNEL**

**5.1 Health**

**5.1.1 Drinking Water**

The Contractor shall furnish potable drinking water in approved, identified containers with adequate disposable cups. The Contractor shall also furnish suitable trash containers for disposal of the cups with daily removal of trash.

**5.1.2 Sanitary Facilities**

The Dürr representative in charge of each project will arrange for sanitary and toilet facilities for the Contractor's employees to use if applicable. It is understood that only assigned facilities shall be used by the Contractor's personnel.

**5.1.3 First Aid**

Contractors must have available on the job a first aid kit for the use of their personnel. All injuries must be reported to the Dürr representative, Dürr Systems safety department and all applicable regulatory agencies as applicable.



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### 5.2 Department

#### 5.2.1 Horseplay

Scuffling, pushing, throwing objects, or similar acts, is prohibited. Weapons and ammunition are prohibited on Dürr property, concealed or otherwise.

#### 5.2.2 Intoxication/Under the Influence

A person who appears to be intoxicated due to the influence of alcohol or drugs or otherwise, impaired shall not be admitted or allowed to work in Dürr Systems. The possession and/or use of alcoholic beverages or unlawful drugs is prohibited on Dürr's property. Any Contractor's employee found on Dürr property under the influence of, or in possession of these substances, shall be removed from Dürr property.

#### 5.2.3 Smoking Regulations

Smoking is prohibited in all areas and roadways of Dürr Systems except in an authorized smoking area. (Signs authorizing smoking shall be posted in the smoking area. The smoking area shall have a butt can used for cigarette butts only.)

### 5.3 Personal Protection

Contractors are responsible for supplying all Personal Protective Equipment (PPE) for their workers as required by work and potential hazards. Dürr shall not furnish any personal protection equipment to Contractor's personnel.

#### 5.3.1 Eye Protection

Eye protection, including side protection, shall be worn by Contractor's employees and shall comply with ANSI Z87 Standards. Special eye protection is required on jobs such as grinding, burning, welding, chipping, breaking concrete and operating a power saw. Clear lenses are required when working inside buildings and at night.

#### 5.3.2 Hard Hats

Hard hats meeting ANSI Z89.1- shall be worn by Contractor's employees when it is determined by a representative of Dürr that the situation requires this particular piece of gear. Hard hats must never be worn on top of everyday hats and caps. Winter liners made especially for the hat may be used in cold weather.

#### 5.3.3 Hearing Protection

It is recommended that hearing protection providing effective sound attenuation to below 85db shall be worn by Contractor's employees when operating jackhammers, automated pile drivers, or any other operation creating high noise levels or in posted areas.

#### 5.3.4 Respirators

Where the operation involves exposure of employees to asbestos, or hazardous concentrations of dust, mist fumes or vapors, Contractor must provide NIOSH/MSHA approved respirators for its employees and train them in their use as required by MIOSHA, including pulmonary function test and fit testing.

#### 5.3.5 Clothing

Contractor's employees will wear clothing and hand and foot protection suitable for the operations to be performed. Sleeveless shirts, short pants, sandals, canvas shoes, or athletic shoes will not be permitted. Appropriate hand and/or arm protection shall be worn when Contractor's employee's hands and arms are exposed to hazards such as those from skin absorption of harmful substances, severe cuts or lacerations, severe abrasions, puncture, chemical burns, thermal burns, electrical shock, and harmful temperature extremes.



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### 5.3.6 Personal Fall Arrest System

A safety harness must be worn and used in elevated areas 6 ft. or greater not protected from falls. Contractor shall follow Dürr rules relative to working at elevations.

### 5.3.7 Foot Protection

Safety-toed shoes or boots must be worn when conducting work within Dürr's Manufacturing Shop and as the particular job requires.

## 6.0 CLEANING OF WORK SITE

Contractor shall maintain the work site clean and free from trash, scrap, and any other debris at all times during the progress of the work. At the close of work, the Contractor shall clean and repair any adjacent area which has been disturbed or marred by its operations and leave the premises clean as far as its work is concerned. Construction/demolition debris or any type of hazardous waste must be accumulated in approved containers and Dürr's site personnel must be notified before any collection begins on site. No mixture of common trash rubbish and hazardous waste in containers is allowed.

In case of dispute, Dürr may remove debris at Contractor's expense. The Contractor will be given notice prior to Dürr's removal of trash, debris, or similar materials.

Nails must be immediately removed or bent over in all boards and crating materials. Contractors shall adhere to Dürr Systems Clean Construction Manual.

## 7.0 FIRE PROTECTION AND EMERGENCIES

### 7.1. Notification and Alarms

#### 7.1.1 Emergency Telephone

The emergency telephone number is 9-9-1-1 on a building telephone. Dialing 0 will connect you to the Dürr operator (Southfield Only) who will be able to contact emergency services. These numbers should be used for EMERGENCIES - ONLY (e.g., spill, fire, or medical).

#### 7.1.2 Fire Alarm/Evacuation Signal

Contractor's employees must know where the nearest telephone is located. After calling in the alarm, the Contractor's employees must wait for the arrival of the Emergency Response Team and give them instructions as to the location of the incident. In the event of a fire or spill in Dürr Systems, an alarm will be sounded. Contractor will receive instructions from their Dürr representative.

### 7.2 Procedure

#### 7.2.1 Permit for Welding, Open Flame, etc.

Upon determination by the Dürr representative, the Contractor's craft supervisor shall obtain as required, a "Hot Work Permit" for open flame work, cutting, burning, or welding.

#### 7.2.2 Fire Watch

Contractor's employees, appropriately trained as a "Fire Watch", shall be assigned as a fire watch and these watches shall not leave the job unprotected.

The fire watch shall be fully instructed in the use of a fire extinguisher and the location and use of a fire hose, alarm box, closest telephone, or other emergency device.

Welding shall be stopped in the event of any spillage of material, until such conditions are remedied or determined to be safe by the Dürr's representative.

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The job shall not be left unprotected, even though work has temporarily ceased. The fire watch shall carefully examine the area, wet down affected surfaces and shall not leave the job site until at least 30 minutes after work has stopped; this includes authorized breaks, mealtime, and quitting time. Appropriate relief coverage shall be provided.

### 7.2.3 Notification

Contractor shall obtain prior approval from Dürr Systems Maintenance Manager and Safety Manager whenever its work shall entail shutting off a water main or fire main, blocking a roadway so that firefighting/emergency equipment cannot pass, blocking access to fire equipment or hydrant and/or blocking of, removal of, or change to any exit or fire escape.

### 7.2.4 Open Flame Equipment

All equipment to be used by the Contractor in open flame operations shall be inspected by the Dürr's permit issuer prior to initial usage; condition and use of equipment shall meet the specifications as outlined by American National Standard "Safety in Welding and Cutting" and applicable MIOSHA, NFPA, and state standards. Storage and transporting of cylinders shall be as set out in the MIOSHA Regulations. Daily Hot Work permits will be required as applicable.

### 7.2.5 Painting

Contractor must obtain prior permission from the Dürr's representative before any painting can be started. Paint must not be thinned, mixed, or left in open containers in operating areas except with permission of the Dürr's representative. Disposal of paints, thinners, etc. on site must be approved by Dürr.

## 7.3 Fire Protection Equipment

### 7.3.1 Fire Extinguishers

It shall be the responsibility of each Contractor to provide an adequate number of extinguishers for use in fighting fires in the incipient stage. All fire extinguishers shall be Underwriters' approved type, and appropriate for the hazard involved. Used extinguishers must be expeditiously refilled or replaced.

### 7.3.3 Open Areas or Structures

Fire resistant material should be used to protect sparks from dropping to other levels or areas if applicable.

## 7.4 Materials

### 7.4.1 Flammable Liquids

All flammable and combustible liquids used by Contractors in Dürr Systems shall be stored in safety cans. Containers for bulk storage of flammable liquids shall be approved by Dürr's Safety Manager. Containers shall be clearly marked according to applicable hazard communication laws and "No Smoking" signs posted in area. Contractor shall furnish a 20# dry chemical fire extinguisher adjacent to the area. Fueling of compressors, pumps and other equipment in an operating area is permissible only with the approval of the Dürr representative. All bulk containers shall have flame arrestor type vents. Grounding and bonding, when applicable, should be used in accordance with NFPA, MIOSHA, and Dürr requirements.

### 7.4.2 Compressed Gas Cylinders

All compressed gas cylinders shall be used, stored, and transported in an upright position. Cylinders in storage shall be secured at all times. Cylinders shall not be hoisted above ground level without the use of a cylinder carrier and approval of the Dürr Safety Manager. Full and empty cylinders shall not be moved without the safety caps fully secured. While being stored, fuel cylinders must be separated from Oxygen cylinders a minimum of 20 feet.

**NO**  
**7.3.2**



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### 7.4.3 LP Gas (If LP gas is to be used for heating, Dürr shall be notified)

Cylinders shall be ICC approved. Maximum size of each cylinder shall be 100# of LP gas capacity. Connecting more than 300# of LP gas to one manifold is not permitted. If more than one manifold is required, separate these manifolds by 50 ft. Cylinders, regulators, hoses, and tubing shall be located where they will not be subject to damage, tampering, or excessive temperature. Heating equipment shall be at least six feet from cylinders.

Heaters or salamanders shall be equipped with 100% safety shut-off valves. To protect against leakage from a break in the hose, the cylinder valve shall be provided with an excess flow valve either internally or in the cylinder valve outlet connector.

## 8.0 PROCEDURES AND PERMITS

### 8.1. General Information

#### 8.1.1 Hazard Communication

Dürr will provide information to the Contractor about hazardous chemicals in the workplace. The Contractor must provide this information to its employees. Tanks and containers in Dürr Systems are labeled in a way to quickly identify the contents and recognize its hazard. Safety Data Sheets (SDS) are available for every raw material and finished product. Dürr's representative will review with the Contractor the hazard of any materials in the work place and will make available Material Safety Data Sheets upon request.

The Contractor shall supply to Dürr the Safety Data Sheets on any hazardous material prior to its being brought into Dürr Systems for use by Contractor.

#### 8.1.2 Dürr's Property

No drums or other containers or equipment belonging to Dürr are to be used or removed from Dürr Systems for any purpose whatsoever unless authorized by Dürr's representative. This is a safety precaution since these containers may have contained toxic or corrosive materials which could result in serious injury to anyone contacting the material.

### 8.2 Utilities

#### 8.2.1 Utilities (Electric Light, Power, Steam, Water, Fuel, Valves, Pipe Lines, Existing Utilities and Fire Alarm Service)

Contractor shall make no connection, either temporary or permanent, to any existing service line including but not limited to electric light or power, steam, water, or fuel without permission from a Dürr representative.

Contractor personnel shall not operate any valve or open any pipeline without specific approval and in the presence of the Dürr's representative.

Contractor shall protect utilities and services from damage. The locations of existing underground and overhead utilities, communication and fire alarm services must be shown to the Contractor by the Dürr's representative before work starts.

### 8.3 Equipment

**The Contractor shall not operate or utilize any Dürr equipment or tools without prior written consent from Dürr's project representative.**

#### 8.3.1 Boom Type Hoisting and Earth Moving Equipment

All boom type hoisting and earth moving equipment used on Dürr's property must be inspected with the inspection records available upon request of a Dürr representative prior to use. This inspection does not relieve the Contractor of responsibility for damages resulting from equipment failure. When high winds are anticipated, all booms must be lowered to a safe level.





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### 8.3.2 Gunpowder Actuated Tools (e.g., “Ram-Set”)

A written permit shall be obtained prior to using a gunpowder-operated tool. The tool user must be properly trained and qualified by the Contractor. A face shield, in addition to the eye protection, must be worn by the user.

### 8.3.3 Lockout Procedure

To ensure that equipment is not operated while it is being worked on, the equipment shall be locked out and/or tagged, according to MIOSHA and Dürr procedures.

Equipment in operating or production areas must be first locked, tagged, and tested by Dürr’s operating personnel. After Dürr has secured the equipment, the Contractor must then lock, tag, and test accordingly.

## 8.4 Guarding

### 8.4.1 Barriers

The Contractor shall erect and maintain temporary barriers or rails and electric warning lights around ditches, stair and elevator wells and other shafts or openings in the floors, roofs, and walls, and at access levels to temporary stairs or ladders. Existing barriers shall not be removed or altered without the approval of the Dürr’s representative.

### 8.4.2 Excavations

All ditches and excavations more than 4 feet deep shall be shored solid unless the excavation or ditch walls are sloped to the natural angle of repose of the material being excavated. MIOSHA, State, and Dürr rules must be followed. Hydraulic shoring jacks are prohibited unless the hydraulic system has positive mechanical backup in the event of a hydraulic system failure.

Contractor shall furnish all shoring, sheathing, bracing, etc., that excavations may require for the safety of Dürr and Contractor’s personnel and to comply with MIOSHA and state laws. Excavated material shall be placed or piled where designated by Dürr so as not to block access to process equipment, buildings, roads, fire, and safety equipment, etc., during the process of the work. Inferior or excess excavated material shall be removed from the site or location as designated by specific instructions from the Dürr representative.

## 9.0 PRECAUTIONS SUBJECT TO DÜRR INSPECTION

### 9.1. Equipment

9.1.1 All Contractor’s equipment must be used and stored in Dürr Systems in a safe manner.

All Contractor’s buildings shall be identified with signs, equipped with necessary fire extinguishers, and equipped with locks to prevent thefts. Spacing of temporary buildings shall be as per MIOSHA, NFPA and State standards.

9.1.2 Ladders, Tools, Equipment, Etc.

Ladders, tools, equipment, etc., used by the Contractor must be maintained in a condition that will not constitute a hazard to the Contractor’s personnel or Dürr personnel and must meet MIOSHA requirements.

Exposed couplings, gears, flywheels, and V-belts must be adequately guarded for personnel protection and as required by MIOSHA.



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### 9.1.3 Scaffolding and Ladders

The Contractor shall furnish all tools, equipment, scaffolding, staging, ladders, flooring, runways, and any other temporary construction required for the safe execution of its work on the project. All scaffolding, runways, and other temporary construction shall be rigidly built so as to support safely four times the weight of any materials, apparatus, equipment, and men to be placed thereon or as required by state and federal standards. All scaffolding shall have toe boards and handrails to meet MIOSHA standards. All ladders shall be tied off and made secure before use. Other scaffold regulations mandated by MIOSHA must also be followed.

### 9.1.4 Chains, Ropes, and Hoisting Equipment

The Contractor shall be responsible for all chains, ropes, chokers, cables and hoisting equipment being safe and in accordance with MIOSHA inspection and operating requirements. All persons must be kept clear from walking or passing under the loads being transported by a crane or hoisting device by an authorized Safety Watcher. Lift loads shall be secured and guided with a tag line. All hard surface roadways shall be planked with plywood when equipment with metal road traction type gear is employed. Any load moved by a cherry picker shall be secured by a tag line.

### 9.1.5 Truck Mounted Equipment

Truck mounted cranes, pile drivers and drilling rigs when parked overnight must have all their outriggers in place to support the truck and mast or boom. On weekends or when high winds are anticipated, the mast or boom must be lowered to a safe level.

### 9.1.6 Portable Electrical Tools

Portable electrical tools shall not be used unless they are equipped with grounding or “third” wire connections, or the double insulated type. The Contractor shall provide and use ground fault circuit interrupters on portable electric tools and temporary receptacles. All temporary wiring and connecting cords shall have grounding wire and connectors.

## 9.2 Site Conditions

### 9.2.1 Roadways, Walkways and Railroad Sidings

All roadways, and walkways, must be maintained by the Contractor in a safe passable condition during the progress of the job.

### 9.2.2 Tripping Hazards

The Contractor must keep exits clear and not permit any tripping hazards to be put in passageways, aisles, stairways, etc.

### 9.2.3 Loading Structures

The Contractor shall not load nor permit to be loaded any part of permanent or temporary structures with a weight that will endanger its safety or cause its failure or damage.

### 9.2.4 Sandblasting

Operator must be fully protected by adequate clothing, helmet and an air supplied respirator. Air supplied to the hood or the respirator must be breathing quality. High temperature shutdowns, carbon monoxide analysis and/or non-lubricated compressor must be used to assure air quality according to MIOSHA requirements. To safeguard against carbon monoxide, the compressor air intake must be kept away from the engine exhaust.

If a silica-based abrasive is to be used, it must be non-crystalline unless otherwise approved by Dürr.





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9.2.5 Engine Fueling

Engines must be stopped before adding fuel to the tank and fuel must be transported in an approved safety can, or in a fuel truck equipped with UL approved transfer equipment and an automatic shut off. No fueling is to be conducted within any Dürr building.

9.2.6 Protection of Work

Contractor shall assume full responsibility for the protection of its work and for the work of others affected by the execution of its work during the progress and its completion.

**10.0 INSPECTIONS**

10.1 The primary responsibility for the safety of Contractor’s employees rests with the Contractor. Continued infractions of environmental, health or safety rules and regulations shall result in the Contractor being barred from continuing work in Dürr Systems.

10.2 Government Inspections

In the event of an inspection of a project by a MIOSHA, EPA, or other agency, Dürr’s job supervisor shall be advised immediately of this presence.

**11.0 GENERATOR RESPONSIBILITIES FOR WASTE HANDLING**

The Contractor is responsible for identifying and properly handling all types of wastes generated during the job. The Contractor’s personnel must be properly trained according to RCRA, SARA Title III, MIOSHA, and DOT requirements to handle the types of wastes generated. Dürr’s site personnel must be notified as to the types and amounts of waste created during the job. Proper waste storage procedures must be agreed between Dürr and the Contractor before the job is begun.

**12.0 WASTE DISPOSAL REQUIREMENTS**

Dürr maintains strict control over the disposal of all types of waste generated at Dürr Systems.

The Contractor must comply with all applicable rules and regulation requirements for waste disposal and verify compliance as required.

Company/Subcontract Representative: \_\_\_\_\_ Date: \_\_\_\_\_

Signature

\_\_\_\_\_

Printed

Dürr Systems Representatives: \_\_\_\_\_ Date: \_\_\_\_\_

Signature

\_\_\_\_\_

Printed