

AIR QUALITY

I. Breathing Air Systems:

CATEGORY: BREATHING AIR SYSTEMS

SUB-CATEGORY: **BREATHING AIR COMPRESSOR SYSTEMS**

SUGGESTED PROJECT DESCRIPTION: "CORRECT UNSAFE REATHING AIR SUPPLY IN BLDG _____"

STANDARDS: 29CFR1910.134, Compressed Gas Association P-7

DESCRIPTION: Install/renovate breathing air compressors for central air supply systems and cylinder refill systems to comply with current standards of air purity in CGA pamphlet P-7.

TYPICAL TRADES: Painters abrasive blasters, confined space entry workers, fire fighters, sewage treatment plant workers, shipyard workers, and others.

TYPICAL LOCATIONS: Fire station, shipyards, public works department/centers and others

II. Confined Space:

CATEGORY: CONFINED SPACE HAZARDS

SUB-CATEGORY: **CONFINED SPACES**

SUGGESTED PROJECT DESCRIPTION: "ELIMATE HAZARDOUS CONFINED SPACE ATMOSPHERE IN <LOCATION>"

STANDARDS: 29CFR1910.146

DESCRIPTION: Install ventilation to provide fresh air in confined spaces which must be frequently entered for routine maintenance and repair.

TYPICAL TRADES: Sewage treatment plant workers, electricians, phone repair, and others

TYPICAL LOCATIONS: Sewage lift stations, manholes and others.

III. Ventilation:

CATEGORY: VENTILATION

SUB-CATEGORY: **EXPLOSIVES HANDLING SYSTEMS**

SUGGESTED PROJECT DESCRIPTION: "REMOVE TOXIC CONTAMINANTS FROM <OPERATION> IN <LOCATION>"

STANDARDS: 29CFR1910.1000 AND Navy explosives ordnance instructions

DESCRIPTION: Ventilation to remove toxic and combustible propellants to a safe location.

TYPICAL TRADES: Munitions manufactures, repairs and maintainers of torpedoes.

TYPICAL LOCATIONS: Munitions manufactures, torpedo shops.

CATEGORY: VENTILATION

SUB-CATEGORY: **VEHICLE MAINTENCE EXHAUST**

SUGGESTED PROJECT DESCRIPTION: "ABATE GARAGE, <LOCATION> EXHAUST GASES"

STANDARDS: 29CFR1910.1000

DESCRIPTION: Install ventilation in vehicle and equipment maintenance facilities where internal combustion engines are operated indoors generating carbon monoxide gas and other gases.

TYPICAL TRADES: Automotive maintenance, heavy equipment maintenance personnel.

TYPICAL LOCATIONS: Public works transportation garages, engine test cells.

CATEGORY: VENTILATION

SUB-CATEGORY: **LEAD FUME CONTROL, INDOOR RANGE**

SUGGESTED PROJECT DESCRIPTION: "ABATE HAZARD CONTAMINATION ON FIRING RANGE, <location>"

STANDARDS: 29CFR1910.1025

DESCRIPTION: install/renovate ventilation to control lead fume exposure to less than the latest OSHA standard.

TYPICAL TRADES: Indoor rifle/pistol range operators.

TYPICAL LOCATIONS: Indoor rifle/pistol range.

CATEGORY: VENTILATION
SUB-CATEGORY: **ABRASIVE BLASTING**
SUGGESTED PROJECT DESCRIPTION: "REMOVE ABRASIVE BLAST HAZARDOUS AIR CONTAMINANTS FROM FACILITY <LOCATION>"
STANDARDS: 29CFR1910.94
DESCRIPTION: Install/renovate ventilation to remove contaminants generated by abrasive blasting. Contaminants include blasting media as well as toxic paint compound such as lead on painted surfaces
TYPICAL TRADES: Painters
TYPICAL LOCATIONS: Spray paint facilities, dry-docks

CATEGORY: VENTILATION
SUB-CATEGORY: **SPRAY PAINT BOOTH**
SUGGESTED PROJECT DESCRIPTION: "VENTILATE EXPLOSIVE/TOXIC VAPORS FROM SPRAY PAINT BOOTH, <LOCATION>"
STANDARDS: 29CFR1910.107
DESCRIPTION: Install/renovate ventilation to reduce or eliminate worker exposure to paint solvents and heavy metal during spray painting.
TYPICAL TRADES: Painters, automotive painters, aircraft painters.
TYPICAL LOCATIONS: Vehicle maintenance shops, aircraft paint hangers, general paint shops.

CATEGORY: VENTILATION
SUB-CATEGORY: **DIP TANKS AND DRYING**
SUGGESTED PROJECT DESCRIPTION: "REMOVE DIP TANK EXPLOSIVE/TOXIC VAPORS, <LOCATION>"
STANDARDS: 29CFR1910.108, 29CFR1910.1000
DESCRIPTION: Ventilate shops to remove solvent from dip tank operations. Often, both the dip tank and drying areas need to be ventilated to prevent both toxic exposure and accumulation of explosive vapors depending on the solvent used.
TYPICAL TRADES: Electricians, painters, electroplaters, and others.
TYPICAL LOCATIONS: Motor rewind shops, paint stripping operations, electroplating shops, and others.

CATEGORY: VENTILATION
SUB-CATEGORY: **WELDING VENTILATION**
SUGGESTED PROJECT DESCRIPTION: "REMOVE WELDING HAZARDOUS AIR CONTAMINANTS, <LOCATION>"
STANDARDS: 29CFR1910 Subpart Q, 29CFR1910.1001
DESCRIPTION: Install/renovate local exhaust ventilation to remove metal fumes and flux gases from welding operations.
TYPICAL TRADES: Welder, air conditioning mechanic, sheet metal workers, pipe fitters, and others.
TYPICAL LOCATIONS: Public works department/enters, automotive repair, heavy equipment repair, and other.

ASBESTOS

CATEGORY: ASBESTOS
SUB-CATEGORY: **ASBESTOS REMOVAL/ENCAPSULATION**
SUGGESTED PROJECT DESCRIPTION: "ABATE ASBESTOS HAZARD IN BLDG."
STANDARDS: 29CFR1910.1001, OPNAVINST 5100.23 (SERIES),
DESCRIPTION: Remove friable, accessible, and damaged asbestos. Asbestos is to be removed only where it poses a threat to personnel. Non-friable, inaccessible, or undamaged asbestos are to be left in place until programmed for removal as part of routine building renovation or demolition
TYPICAL TRADES: All
TYPICAL LOCATIONS: All

ELECTRICAL

CATEGORY: ELECTRICAL

SUB-CATEGORY: **GROUND FAULT CIRCUIT INTERRUPTERS**

SUGGESTED PROJECT DESCRIPTION: "ABATE UNSAFE ELECTRICAL GROUNDS IN <LOCATION>"

STANDARDS: National Electrical Code

DESCRIPTION: Install ground fault circuit interrupters in wet locations where the potential for contacting electrically energized circuits is high. Typically, such projects would be considered for the MP/HA program only where entire structures would need to be rewired or where the project is otherwise beyond the finding capability of the command.

TYPICAL TRADES: Electroplating shops, wash rack

TYPICAL LOCATIONS: Electroplating shops, wash racks.

CATEGORY: ELECTRICAL

SUB-CATEGORY: **RELOCATION/ISOLATE ELECTRICAL CONDUCTORS**

SUGGESTED PROJECT DESCRIPTION: "CORRECT UNSAFE ELECTRICAL CONDUCTORS IN <LOCATION>"

STANDARDS: 29CFR1910 Subpart 29cfr1910.180, National Electric Code

DESCRIPTION: Move overhead electrical conductors away from locations where people could accidentally come into contact with them, e.g. near mobile crane yards, overhead walkways, roof tops.

TYPICAL TRADES: Crane operators

TYPICAL LOCATIONS: Mobile crane operations, roof tops, exterior stair ways.

FALL PROTECTION

CATEGORY: FALL PROTECTION

SUB-CATEGORY: **LADDER FALL PROTECTION CLIMBING DEVICE**

SUGGESTED PROJECT DESCRIPTION: "ELIMINATE CLIMBING FALL HAZARD FROM <LOCATION>"

STANDARDS: 29CFR1910.27

DESCRIPTION: A track or cable in the center of a ladder to which a harness is attached which, in turn, prevents the climber from falling should she/he loses her/his grip in the ladder.

TYPICAL TRADES: Electricians, painter, air conditioning mechanics and roofers.

TYPICAL LOCATIONS: Building roofs, water towers, antennae, smoke stacks, pollution emission control towers

CATEGORY: FALL PROTECTION

SUB-CATEGORY: **BRIDGE CRANE INSPECTION & MAINTENANCE**

SUGGESTED PROJECT DESCRIPTION: "ELIMINATE CRANE MAINTENANCE FALL HAZARD AT <LOCATION>"

STANDARDS: 29CFR1910.179

DESCRIPTION: Install guard rails, ladder climbing devices, and other measures to prevent crane operators and maintenance personnel from falling from bridge cranes.

TYPICAL TRADES: Crane operators and maintenance personnel

TYPICAL LOCATIONS: Warehouse, ordnance station, other manufacturing sites.

CATEGORY: FALL PROTECTION

SUB-CATEGORY: **AIRCRAFT MAINTENANCE FALL PROTECTION**

SUGGESTED PROJECT DESCRIPTION: "ELIMINATE AIRCRAFT MAINTENANCE FALL HAZARD <LOCATION>"

STANDARDS: 29CFR1910.24

DESCRIPTION: Install overhead suspension system to which harnesses can be attached to prevent workers from fall from the top of aircraft during maintenance evaluations.

TYPICAL TRADES: All aviation maintenance workers

TYPICAL LOCATIONS: Aircraft hangars.

FALL PROTECTION

CATEGORY: FALL PROTECTION

SUB-CATEGORY: **WORK PLATFORMS/CATWALKS**

SUGGESTED PROJECT DESCRIPTION: "PROVIDE WORK PLATFORMS, HIGH MAINTENANCE HAZARDS <EQUIPMENT>, <LOCATION>"

STANDARDS: 29CFR1910.24

DESCRIPTION: Install platforms to provide safe access to evolution which must be performed regularly at elevated locations.

TYPICAL TRADES: Boiler mechanics, pipe fitters, electricians, air conditioning mechanic, others.

TYPICAL LOCATIONS: Boilers, ceiling mounted air conditioners, overhead lights, and other mechanical systems.

CATEGORY: FALL PROTECTION

SUB-CATEGORY: **WALKING-WORKING SURFACES, DRY DOCK DRAIN COVERS**

SUGGESTED PROJECT DESCRIPTION: "CORRECT DRY DOCK FALL HAZARDS <NUMBER OF AND LOCATIONS>"

STANDARDS: 29CFR1910.Subpart D

DESCRIPTION: Fill in dry dock drain channels with concrete sloped to carry away drain water to replace existing drain trenches covered with metal grates. Existing systems poses a severe tripping/fall hazard because drain grates are frequently damaged or removed.

TYPICAL TRADES: Ship yard workers

TYPICAL LOCATIONS: Dry docks.

FALL PROTECTION

CATEGORY: FALL PROTECTION

SUB-CATEGORY: **SAFE ACCESS FROM PIERS TO SHIPS**

SUGGESTED PROJECT DESCRIPTION: "ELIMINATE PIER-TO-SHIP FALL/DROWNING HAZARD <LOCATION>"

STANDARDS: 29CFR1910.Subpart D

DESCRIPTION: Install access brows which accommodate large changes in tides so that the angle of the brow does not cause a falling or slipping hazard.

TYPICAL TRADES: Long shoring, ship repair personnel, shipboard personnel and others.

TYPICAL LOCATIONS: Piers in areas of the country with large differences between high and low tide.

EMERGENCY EGRESS

I. Escape Exits:

CATEGORY: LIFE SAFETY

SUB-CATEGORY: **EMERGENCY EGRESS**

SUGGESTED PROJECT DESCRIPTION: "PROVIDE SUFFICIENT EMERGENCY EXITS IN <LOCATION>"

STANDARDS: National Fire Protection Association

DESCRIPTION: Provide exit pathways that are protected from smoke and fire. Specifically, enclose interior stairways or install exterior fire escapes for egress from upper floors.

TYPICAL TRADES: Office workers, warehouse workers and others

TYPICAL LOCATIONS: Office workers, warehouse workers and industrial occupancies.

CATEGORY: LIFE SAFETY

SUB-CATEGORY: **PROTECTION EMERGENCY EGRESS**

SUGGESTED PROJECT DESCRIPTION: "PROVIDE PROTECTED EMERGENCY EXITS IN <LOCATION>"

STANDARDS: National Fire Protection Association

DESCRIPTION: Provide exit pathways that are protected from smoke and fire. Specifically, enclose interior stairways or install exterior fire escapes for egress from upper floors.

TYPICAL TRADES: Office workers, warehouses workers and others

TYPICAL LOCATIONS: Office building, warehouse and industrial occupancies.

II. Exit Signs:

CATEGORY: LIFE SAFETY

SUB-CATEGORY: **EMERGENCY EXIT LIGHTING**

SUGGESTED PROJECT DESCRIPTION: "PROVIDE EMERGENCY GENERAL LIGHTING FOR EGRESS FORM <LOCATION>"

STANDARDS: National Fire Protection Association

DESCRIPTION: Install emergency lighting to permit building occupants to safely exit a structure in the event of power failure accompanied by fire or other emergency

TYPICAL TRADES: All

TYPICAL LOCATIONS: Areas of any structure which will be dark in the event of power failure. Buildings with natural light that are normally occupied during hours of darkness should be included.

II. Exit Signs:

CATEGORY: LIFE SAFETY

SUB-CATEGORY: **LIGHTED EXIT SIGNES**

SUGGESTED PROJECT DESCRIPTION: "PROVIDE EMERGENCY EXIT LIGHTING <LOCATION>"

STANDARDS: National Fire Protection Association

DESCRIPTION: Install lighted exit signs with emergency backup power in locations where power outage would make non-illuminated sign invisible during an emergency.

TYPICAL TRADES: All

TYPICAL LOCATIONS: All

FIRE

I. Fire Alarms:

CATEGORY: LIFE SAFETY

SUB-CATEGORY: **SMOKE DETECTORS**

SUGGESTED PROJECT DESCRIPTION: "PROVIDE SPECIAL LOCATION SMOKE DETECTORS, <LOCATION>"

STANDARDS: National Fire Protection Association

DESCRIPTION: Install smoke detectors in locates where a fire event is not likely to provide warning to all occupants of a building in time to permit safe evacuation.

TYPICAL TRADES: All

TYPICAL LOCATIONS: Locations where people sleep – BOQs, BEQs and high rise buildings.

CATEGORY: FIRE ALARMS

SUB-CATEGORY: **FIRE ALARMS**

SUGGESTED PROJECT DESCRIPTION: "PROVIDE FIRE ALARMS <LOCATION>"

STANDARDS: National Fire Protection Association

DESCRIPTION: Install fire alarms to alert occupants of fire events in a building. Alarms must be audible in all sections of a building. Pull station must be readily accessible in all sections of a structure.

TYPICAL TRADES: All

TYPICAL LOCATIONS: All

CATEGORY: SMOKE DETECTORS/SPRINKLERS

SUB-CATEGORY: **BRIGS**

SUGGESTED PROJECT DESCRIPTION: "CORRECT BRIG SMOKE DETECTORS SPRINKLERS <LOCATION>"

STANDARDS: National Fire Protection Association

DESCRIPTION: Install smoke detectors and sprinklers in Brigs which, because of the nature of occupancy, require an extra measure of protection.

TYPICAL TRADES: Prison guards

TYPICAL LOCATIONS: Brigs

II. Fire Prevention:

CATEGORY: FIRE PROTECTION

SUB-CATEGORY: **WOOD WORKING SHOPS**

SUGGESTED PROJECT DESCRIPTION: "ELIMINATE EXPLOSIVE/COMBUSTIBLE WOOD DUST HAZARDS IN <LOCATION>"

STANDARDS: National Fire Protection Association

DESCRIPTION: Prevent fires from ignition of wood dust collecting on rafters and other surfaces around frequently used woodworking machinery. These projects are usually for fire prevention but certain wood dusts are also suspect cancer causing agents.

TYPICAL TRADES: Carpenters, cabinet makers.

TYPICAL LOCATIONS: Wood working shops, hobby shops and craft shops.

CATEGORY: FIRE PROTECTION

SUB-CATEGORY: **VENTILATION OF BATTERY CHARGING**

SUGGESTED PROJECT DESCRIPTION: "ELIMINATE BATTERY CHARGING EXPLOSIVE HYDROGEN GAS HAZARD IN <LOCATION>"

STANDARDS: National Fire Protection Association

DESCRIPTION: Install/renovate ventilation systems to remove accumulations of explosive hydrogen gas in lead-acid battery charging stations.

TYPICAL TRADES: Electrician, fork lift operator, automotive repair and others

TYPICAL LOCATIONS: Automotive repair shops, heavy equipment repair, small boat repair and others.

CATEGORY: FIRE PROTECTION

SUB-CATEGORY: **EXPLOSION PROOF FIXTURES**

SUGGESTED PROJECT DESCRIPTION: "ELIMINATE HAZARDOUS ATMOSPHERE IGNITION SOURCES IN <LOCATION>"

STANDARDS: National Fire Protection Association

DESCRIPTION: Install explosion proof electrical equipment in locations where explosive gases, vapors and dusts are likely to accumulate.

TYPICAL TRADES: Painters, fuel handlers, warehouse operators, and others.

TYPICAL LOCATIONS: Spray paint booths, hazardous/flammable material storage, fuel pumping installations, and others.

CATEGORY: FIRE PROTECTION

SUB-CATEGORY: **AUTOMATIC FUEL SHUTOFF**

SUGGESTED PROJECT DESCRIPTION: "ABATE FUEL SUPPLY HAZARDS AT FUELING LOCATIONS <LOCATION>"

STANDARDS: National Fire Protection Association

DESCRIPTION: Install valve control mechanisms that will automatically close fuel valves when heat or smoke sensors detect a fire condition in an area fed by the fuel valves.

TYPICAL TRADES: Fuel farm operators, pier workers, and others.

TYPICAL LOCATIONS: Fuel farms on Naval Stations, Naval Air Stations, piers and others.

CATEGORY: FIRE PROTECTION

SUB-CATEGORY: **LIGHTNING PROTECTION**

SUGGESTED PROJECT DESCRIPTION: "ABATE LIGHTNING-CAUSED EXPLOSIONS/FIRES IN <LOCATION>"

STANDARDS: National Fire Protection Association

DESCRIPTION: Install devices to conduct lightning strikes safely to ground in locations where lightning could ignite fuels, explosives, or ammunition.

TYPICAL TRADES: Fuel handlers, explosive handlers and others.

TYPICAL LOCATIONS: Ammunition bunkers, explosives manufacturing, fuel farms and others.

CATEGORY: FIRE PROTECTION

SUB-CATEGORY: **GROUNDING/BONDING SYSTEMS**

SUGGESTED PROJECT DESCRIPTION: "ELIMINATE INADEQUATE GROUNDING/BONDING TO PREVENT FIRE/EXPLOSION IN <LOCATION>"

STANDARDS: National Fire Protection Association

DESCRIPTION: Install grounding points in aircraft parking areas, fuel dispensing area, and other locations where fueling takes place and static electricity poses an explosion and fire risk.

TYPICAL TRADES: Aircraft maintenance worker and others

TYPICAL LOCATIONS: AIMDs, aviation depots, air fields and others.

III. Fire Protection:

CATEGORY: FIRE PROTECTION

SUB-CATEGORY: **FIRE WALLS**

SUGGESTED PROJECT DESCRIPTION: "ABATE FIRE SPREAD HAZARDS <LOCATION>"

STANDARDS: National Fire Protection Association

DESCRIPTION: Install fire walls to separate one fire area of a building from another include extension of the wall above the roof. Reduces risk of trapping occupants in a non affected area of the building from fire in another area.

TYPICAL TRADES: All

TYPICAL LOCATIONS: Office building and industrial occupancies.

CATEGORY: FIRE PROTECTION

SUB-CATEGORY: **FIRE STOPPING**

SUGGESTED PROJECT DESCRIPTION: "ABATE FIRE STOPPING HAZARDS <LOCATION>"

STANDARDS: National Fire Protection Association

DESCRIPTION: Install fire stopping material around wall, ceiling, and floor penetrations created by piping, ventilation ducts, and electrical conduits. Fire stopping prevents fire, heat, and smoke from moving from one fire area of a building to another.

TYPICAL TRADES: All

TYPICAL LOCATIONS: All building

II. Fire Prevention:

CATEGORY: FIRE PROTECTION

SUB-CATEGORY: **LIFE SAFETY**

SUGGESTED PROJECT DESCRIPTION: "ABATE FIRE SPREAD HAZARD OF NON-FIRE-RATED <DOORS, WALLS, CEILINGS> IN <LOCATION>"

STANDARDS: National Fire Protection Association

DESCRIPTION: Install doors walls and ceilings rated to prevent penetration of fire and smoke from one fire of a building to another and to prevent excessive flame spread along corridors in order to protect occupants from spread of fire and smoke.

TYPICAL TRADES:

TYPICAL LOCATIONS: Office buildings, BOQs, industrial occupancies.

HAZARDOUS MATERIAL

I. Hazardous/Flammable Control Material:

CATEGORY: HAZARDOUS/FAMMABLE MATERIAL

SUB-CATEGORY: **HAZARDOUS/FLAMMABLE STORAGE FACILITY**

SUGGESTED PROJECT DESCRIPTION: "ABATE HAZARDOUS/FLAMMABLE UNSAFE STORAGE <LOCATION IF APPROPRIATE>"

STANDARDS: National Fire Protection Association

DESCRIPTION: Construct storage building or storage room of fire resistant materials, with proper segregation of incompatible materials, fire suppression system, fire alarms, safe drains, etc. Note that facilities designated for more than 50: usage for hazardous waste storage should be funded by environmental protection funds, e.g., hazardous waste collection sites.

TYPICAL TRADES: Painters, electroplaters, ship and aircraft repair/maintenance personnel

TYPICAL LOCATIONS: Spray paint facilities, electroplating facilities, Shore Intermediate Maintenance Activities, Aircraft Intermediate Maintenance Activities, Public Works Departments / Centers.

CATEGORY: HAZARDOUS/FAMMABLE MATERIAL

SUB-CATEGORY: **COMPRESSED GAS STORAGE FACILITY**

SUGGESTED PROJECT DESCRIPTION: "ABATE UNSTAFE STORAGE OF COMPRESSED GASES IN <LOCATION IS APPROPRIATE>"

STANDARDS: National Fire Protection Association

DESCRIPTION: Install compressed gas storage facility that allows for segregation of incompatible gases, shields compressed gas cylinders from direct sun light and other sources of heat, and protects cylinders from other sources of damage.

TYPICAL TRADES: Warehouse workers, welder and others.

TYPICAL LOCATIONS: Supply material departments, and others.

CATEGORY: HAZARDOUS/FAMMABLE MATERIAL

SUB-CATEGORY: **EMERGENCY EYE WASH AND DELUGE SHOWERS**

SUGGESTED PROJECT DESCRIPTION: "ABATE EYE/SKIN HAZARD OF CAUSTIC/TOXIC CHEMICALS IN <LOCATION>"

STANDARDS: 29CFR1910.151(c)

DESCRIPTION: Install emergency eye wash and/or deluge showers in locations where personnel can come into contact with corrosive or toxic materials which can cause injury or illness if not immediately washed away.

TYPICAL TRADES: Laboratory workers, sewage treatment plant workers, electroplate and others.

TYPICAL LOCATIONS: Quality assurance and analytical laboratories, sewage treatment plants, boilers plants, electroplating shops, and others.

II. Toxic Material Control:

CATEGORY: TOXIC MATERIAL CONTROL

SUB-CATEGORY: **PEST CONTROL FACILITY**

SUGGESTED PROJECT DESCRIPTION: "ABATE UNSAFE TOXIC PESTICIDE HANDLING FACILITY <LOCATION>"

STANDARDS: NAVFACINST 6250.3(series)

DESCRIPTION: Construct pest control facility which provides a safe area for cleaning equipment, disposing of waste, and segregated secure storage. Such installations typically also contain showers and change rooms.

TYPICAL TRADES: Pest controllers

TYPICAL LOCATIONS: Public Works Departments/Centers.

MISCELLANEOUS

I. Noise Abatement:

CATEGORY: NOISE ABATEMENT

SUB-CATEGORY: **NOISE ISOLATION SYSTEM**

SUGGESTED PROJECT DESCRIPTION: “ABATE HAZARDOUS NOISE EXPOSURE IN <LOCATION>”

STANDARDS: 29CFR1910.95

DESCRIPTION: Install sound deadening enclosures for operators in locations where noise exceeds 85dBA over an eight hour time weighted average.

TYPICAL TRADES: Power plant operator, compressor plant operator, and others.

TYPICAL LOCATIONS: Steam and electrical power plants, compressor plants, and others.

II. Weight Handling:

CATEGORY: WEIGHT HANDLING

SUB-CATEGORY: **BRIDGE CRANE**

SUGGESTED PROJECT DESCRIPTION: “ABATE BRIDGE CRANE HAZARDS TO ENSURE SAFE LIFTING CAPABILITY, <LOCATION>”

STANDARDS: 29CFR1910.179

DESCRIPTION: Renovate/upgrade bridge crane to ensure rated load is correct, moving parts are guarded, fall protection is installed, electrical connections are protected from accidental contact.

TYPICAL TRADES: Long shoring, all others with access to piers.

TYPICAL LOCATIONS: Warehouses, manufacturing/repair facilities.

III. Drowning Protection:

CATEGORY: OTHER SAFETY

SUB-CATEGORY: **DROWNING PROTECTION ON PIERS**

SUGGESTED PROJECT DESCRIPTION: “ABATE FALL/DROWNING HAZARD ON PIER <NAME OR NUMBER>”

STANDARDS:

DESCRIPTION: Install ladders and life rings to enable people who fall from piers to climb back on the pier and to enable rescuers to assist them.

TYPICAL TRADES: Long shoring, all others with access to piers.

TYPICAL LOCATIONS: Piers and wharves

IV. Machine Guarding:

CATEGORY: OTHER SAFETY

SUB-CATEGORY:

SUGGESTED PROJECT DESCRIPTION: “ABATE MACHINE GUARDING HAZARD <LOCATION>”

STANDARDS: 29CFR1917.151

DESCRIPTION: Install machine guarding to enable personnel protected from point of operation.

TYPICAL TRADES: Machinery operator, compressor operator and others.

TYPICAL LOCATIONS: AIMD / SIMA / PWC

For additional assistance in these or other HA related issues, contact:

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