PURPOSE AND USE OF PROCESS INDUSTRY PRACTICES

In an effort to minimize the cost of process industry facilities, this Practice has been prepared from the technical requirements in the existing standards of major industrial users, contractors, or standards organizations. By harmonizing these technical requirements into a single set of Practices, administrative, application, and engineering costs to both the purchaser and the manufacturer should be reduced. While this Practice is expected to incorporate the majority of requirements of most users, individual applications may involve requirements that will be appended to and take precedence over this Practice. Determinations concerning fitness for purpose and particular matters or application of the Practice to particular project or engineering situations should not be made solely on information contained in these materials. The use of trade names from time to time should not be viewed as an expression of preference but rather recognized as normal usage in the trade. Other brands having the same specifications are equally correct and may be substituted for those named. All Practices or guidelines are intended to be consistent with applicable laws and regulations including OSHA requirements. To the extent these Practices or guidelines should conflict with OSHA or other applicable laws or regulations, such laws or regulations must be followed. Consult an appropriate professional before applying or acting on any material contained in or suggested by the Practice.

This Practice is subject to revision at any time.

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PUBLISHING HISTORY

June 2002    Issued
August 2002  Editorial Revision
February 2009 Complete Revision
December 2014 Complete Revision

Not printed with State funds
1. GENERAL

- NEW
- ADDITION TO EXISTING
- OTHER:

BUILDING CODE:
- INTERNATIONAL BUILDING CODE
- ENERGY CODE:
- OTHER:

ELEVATION:
- FINISHED GRADE: _____ FT (_____ M)
- FLOOR ELEVATION (GROUND FLOOR): _____ FT (_____ M)
- FLOOR ELEVATION (_____ FLOOR): _____ FT (_____ M)
- FLOOR ELEVATION (_____ FLOOR): _____ FT (_____ M)

SPECIAL REQUIREMENTS:
- BLAST RESISTANT CONSTRUCTION: DESIGN CRITERIA: SEE PIP STC01018
- ACCESSIBILITY (AMERICANS WITH DISABILITIES ACT): IF NO, EXPLAIN BELOW.
- TEMPORARY SAFE HAVEN
- SHELTER-IN-PLACE
- WINDOWS PERMITTED
- FLOOR DRAINS PERMITTED
- FURNITURE/FURNISHINGS
- LANDSCAPING
- INTERIOR DESIGN
- PARKING AT BUILDING: NO. OF CARS: _____ NO. OF BIKES: _____
- SIGNAGE/GRAFICS
- BRIDGE CRANE: CAPACITY: _____ TONS (_____ KG)
- EXISTING COLORS OR TEXTURES TO BE MATCHED
- EXISTING SIDING/ROOFING PROFILES TO BE MATCHED
- DESIGNED FOR FUTURE EXPANSION
- VISUAL ACCESS TO CONTROL ROOM

OCCUPANCY:
- OTHER: _____
  - NUMBER OF MEN: _____ (SEE BELOW IF BUILDING IS USED FOR SHIFT WORK)
  - NUMBER OF WOMEN: _____ (SEE BELOW IF BUILDING IS USED FOR SHIFT WORK)
  - NUMBER OF MEN PER SHIFT: SHIFT 1 (DAY): _____ SHIFT 2: _____ SHIFT 3: _____ TOTAL: _____
  - NUMBER OF WOMEN PER SHIFT: SHIFT 1 (DAY): _____ SHIFT 2: _____ SHIFT 3: _____ TOTAL: _____
  - NUMBER OF SHIFTS: _____

GENERAL COMMENTS: _____

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- **Floor**
  - Exposed Concrete
  - Hardened Concrete Finish
  - Sealer on Concrete
  - Porcelain Tile
  - Vinyl / Linoleum Tile
  - Access Floorings System
  - Seamless Monolithic
  - Chemical Resistant
  - Carpet
  - Other
- **Base**
  - Resilient
  - Porcelain Tile
  - Carpet
  - Wood
  - Chemical Resistant
  - Chalkmarker Boards
  - Bulletin Boards
  - Concrete Block (CMU)
  - Gypsum Board
- **Board**
  - Wood Paneling
  - Metal Liner Panels
  - Operable Steel Partition
  - Plaster
  - Ceramic Tile
  - Vinyl Wall Covering
  - Acoustical Wall Panels
  - Painted
  - Exposed Concrete
  - Exposed Structure
  - Chemical Resistant
  - Other
- **Walls**
  - Susp Plaster
  - Susp Acoustical Tile
  - Susp Gypsum Board
  - Susp Metal Panel
  - Painted
  - Exposed Construction
### ROOM REQUIREMENTS

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### Notes
- Hardened Concrete Finish
- Sealer on Concrete
- Porcelain Tile
- Vinyl/Linoleum Tile
- Access Flooring System
- Seamless Monolithic
- Chemical Resistant
- Carpet
- Wood
- Chalk/Marker Boards
- Bulletin Boards
- Concrete Block (CMU)
- Gypsum Board
- Wood Paneling
- Metal Inner Panels
- Operable Steel Partition
- Plaster
- Ceramic Tile
- Vinyl Wall Covering
- Acoustical Wall Panels
- Painted
- Exposed Concrete
- Exposed Structural
- Chemical Resistant
- Other
- Susp Plaster
- Susp Acoustical Tile
- Susp Gypsum Board
- Susp Metal Panel
- Painted
- Exposed Construction
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### Room Requirements

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<tr>
<th>Room Types (Description)</th>
<th>Number of Rooms</th>
<th>Size of Rooms</th>
<th>Notes (See Section 8)</th>
<th>Floor</th>
<th>Base</th>
<th>Board</th>
<th>Walls</th>
<th>Ceiling</th>
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**Floor:**
- Exposed Concrete
- Hardened Concrete Finish
- Sealer on Concrete
- Vinyl / Linoleum Tile
- Access Flooring System
- Seams Monolithic

**Base:**
- Carpet
- Chemical Resistant
- Resilient
- Porcelain Tile
- Carpet

**Board:**
- Wood
- Chemical Resistant
- Resilient

**Walls:**
- Chalkmarker Boards
- Bulletin Boards
- Concrete Block (CMU)
- Gypsum Board
- Wood Paneling
- Metal Liner Panel
- Operable Steel Partition
- Ceramic Tile
- Fabric Wall Covering
- Fabric Wall Covering
- Painted
- Exposed Concrete

**Ceiling:**
- Exposed Structure
- Chemical Resistant
- Painted
- Exposed Construction

**Other:**
- Concrete Block (CMU)
- Gypsum Board
- Metal Liner Panel
- Painted
- Exposed Construction

**Notes:**
- See Section 8
### 2.2 MATERIALS AND CONSTRUCTION:

**FOUNDATION TYPE**
- [ ] SLAB ON GRADE
- [ ] CONCRETE PIER AND BEAM
- [ ] STEEL PIER AND BEAM
- [ ] OTHER: __________

**PRIMARY STRUCTURE:**
- [ ] STEEL FRAME
- [ ] REINFORCED CONCRETE FRAME
- [ ] PRE-ENGINEERED SYSTEM
- [ ] LOAD-BEARING REINF. MASONRY (CMU)
- [ ] LOAD-BEARING PRECAST CONCRETE WALLS
- [ ] LOAD-BEARING CAST-IN-PLACE WALLS
- [ ] OTHER:

**DOORS:**
- [ ] INT.
- [ ] EXT.
- [ ] STANDARD STEEL DOOR & FRAME
- [ ] WOOD DOOR & FRAME
- [ ] WOOD DOOR & ANOD ALUM FRAME
- [ ] ANOD ALUM/GLASS DOOR & FRAME
- [ ] FIBERGLASS REINFORCED PLASTIC (FRP) DOOR & FRAME
- [ ] BLAST DOOR & FRAME
- [ ] OVERHEAD COILING
- [ ] OVERHEAD SECTIONAL
- [ ] STEEL: GALVANIZED
- [ ] STEEL: FINISH PAINTED
- [ ] STEEL: STAINLESS STEEL
- [ ] WOOD: PAINTED
- [ ] WOOD: STAIN/TRANSPARENT FINISH
- [ ] WOOD: HIGH PRESSURE LAMINATE

**ROOFING SYSTEMS:**
- [ ] SINGLE-Ply MEMBRANE
- [ ] BUILT-UP ASPHALT ROOF
- [ ] UNINSULATED METAL PANEL
- [ ] INSULATED METAL PANEL
- [ ] FIBERGLASS REINFORCED PLASTIC (FRP)
- [ ] EXPOSED CONCRETE
- [ ] SEALED/COATED CONCRETE
- [ ] STANDING SEAM ROOF SYSTEM
- [ ] OTHER: __________

**WINDOWS:**
- [ ] STEEL FRAME
- [ ] ALUMINUM FRAME
- [ ] FIBERGLASS FRAME
- [ ] VINYL FRAME
- [ ] SAFETY GLASS: TYPE: __________
- [ ] INSULATING GLASS
- [ ] FIXED
- [ ] OPERABLE
- [ ] TINTED GLASS
- [ ] OTHER: __________
- [ ] OTHER: __________

**ROOF STRUCTURES:**
- [ ] METAL FORM DECK
- [ ] COMPOSITE METAL DECK/CONCRETE SLAB
- [ ] WOOD FORMED CONCRETE SLAB
- [ ] METAL DECK ONLY
- [ ] PRECAST CONCRETE
- [ ] COMPOSITE (TYPE: __________)
- [ ] OTHER: __________

**EXTERIOR WALLS:**
- [ ] CONCRETE MASONRY UNITS (CMU)
- [ ] BRICK VENEER
- [ ] TILT-UP/PRECAST CONCRETE
- [ ] CAST-IN-PLACE CONCRETE
- [ ] METAL PANELS
- [ ] LIGHT GAGE STEEL FRAMING
- [ ] WOOD SHEATHING
- [ ] STUCCO
- [ ] STOREFRONT SYSTEM
- [ ] PAINTED
- [ ] INSULATED
- [ ] FIBERGLASS REINFORCED PLASTIC (FRP)
- [ ] OTHER:

**LOUVERS:**
- [ ] OPERABLE
- [ ] FIXED
- [ ] BIRD SCREEN
- [ ] INSECT SCREEN
- [ ] ANOD ALUMINUM
- [ ] PAINTED STEEL
- [ ] FIRE DAMPER
- [ ] BLAST DAMPER
- [ ] SAND/DUST DAMPER
- [ ] ACOUSTICAL DAMPER
- [ ] OTHER
### 3. HEATING VENTILATION, AND AIR CONDITIONING

**MECHANICAL CODE:**
- [ ] INTERNATIONAL MECHANICAL CODE
- [ ] Other: _____

**OUTSIDE DESIGN TEMPERATURES:**
- [ ] SEE PURCHASER’S PIP CVC01017
- [ ] OTHER: _____

**HEATING:**
- [ ] NONE
- [ ] ELECTRIC
- [ ] STEAM
- [ ] HOT WATER
- [ ] GAS
- [ ] OTHER: _____

**VENTILATION:**
- [ ] NONE
- [ ] BLOW THROUGH
- [ ] DRAW THROUGH
- [ ] GRAVITY

**AIR CONDITIONING:**
- [ ] NONE

**COOLING MEDIUM:**
- [ ] CHILLED WATER
- [ ] DX
- [ ] OTHER: _____

**SYSTEM:**
- [ ] PACKAGED
- [ ] SPLIT
- [ ] OTHER: _____

**CONDENSER:**
- [ ] WATER COOLED
- [ ] AIR COOLED

**CORROSION RESISTANT COIL COATING:**
- [ ] AIR HANDLER
- [ ] CONDENSER

**STAND BY CAPACITY:**
- [ ] %

**AIR DISTRIBUTION SYSTEM:**
- [ ] MULTI ZONE
- [ ] SINGLE ZONE
- [ ] OTHER: _____

**THERMOSTAT CONTROL:**
- [ ] PNEUMATIC
- [ ] ELECTRONIC

**MOTOR:**
- [ ] STANDARD
- [ ] EXPLOSION PROOF

**WALL LOUVERS:**
- [ ] DUST FILTER
- [ ] BLAST DAMPERS

**AIR INTAKE STACK:**
- [ ] SAND FILTER
- [ ] FIRE DAMPERS

**HUMIDITY CONTROL:**
- [ ] CHEMICAL FILTRATION

**EQUIPMENT HEAT LOADS:**

<table>
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<tr>
<th>ELECTRICAL EQUIPMENT</th>
<th>BTU/HR (KW)</th>
<th>BTU/HR (KW)</th>
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**THERMOSTAT SETTING TEMPERATURES AND % RELATIVE HUMIDITIES AND Pressures (Deviation or Addendum from PIP ARC01015):**

<table>
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<tr>
<th>ROOM</th>
<th>DEG F (DEG C)</th>
<th>% RH</th>
<th>INCHES OF WATER (PA)</th>
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**SPECIAL VENTILATION SYSTEM REQUIREMENTS:**

- [ ] FOR WHOLE BUILDING
- [ ] FUME HOOD
- [ ] WELDING HOOD
- [ ] PARTIAL AREA: _____

- [ ] FRESH AIR MAKEUP CONTROLLED

**AIR INTAKE SHUTDOWN CAPABILITY:**
- [ ] AUTOMATIC
- [ ] MANUAL

**BUILDING PRESSURIZATION:**
- [ ] PRESSURE: _____ INCHES OF WATER (_____PA)

**BUILDING PURGING:**
- [ ] GAS DETECTION ALARM

### 4. ELECTRICAL

**ELECTRICAL CODE:**
- [ ] NATIONAL ELECTRICAL CODE
- [ ] OTHER: _____

**POWER SOURCE FOR BUILDING:**
- [ ] AREA CLASSIFICATION: _____

**INTERIOR ELECTRICAL LIGHT:**
- [ ] FLUORESCENT LAMP
- [ ] LED LAMP
- [ ] HID LAMP
- [ ] OTHER LAMP: _____

**SPECIAL GROUNDING:**
- [ ]

**INTERIOR WIRING:**
- [ ]

**EXTERIOR WIRING:**
- [ ]

**EXTERIOR LIGHTING:**
- [ ] HID LAMP
- [ ] FLUORESCENT LAMP
- [ ] LED LAMP
- [ ] OTHER: _____

**OTHER REQUIREMENTS:**
- [ ]

### 5. COMMUNICATIONS

**COMMUNICATIONS STANDARDS BODIES:**
- [ ] USA – ANSI/TIA/EIA, BICSI, NFPA, IEEE
- [ ] OTHER: _____

**COMMUNICATIONS REQUIREMENTS:**

- [ ] TELEPHONE
- [ ] LOCAL AREA NETWORK
- [ ] CLOSED CIRCUIT TV
- [ ] OTHER: _____
## 6. BUILDING FIRE PROTECTION AND SAFETY

**FIRE CODE:**
- [ ] INTERNATIONAL BUILDING CODE
- [ ] INTERNATIONAL FIRE CODE
- [ ] OTHER: _____

**FIRE DETECTION/ALARM:**
- [ ] SMOKE DETECTOR
- [ ] HEAT DETECTOR
- [ ] FIRE ALARM BOX
- [ ] AUDIBLE/VISUAL ALARM
- [ ] FIRE ALARM PANEL
- [ ] SPRINKLER SYSTEM PRESSURE SWITCH
- [ ] FIXED FIRE SUPPRESSION DISCHARGE
- [ ] AUTOMATIC SPRINKLER ACTUATION
- [ ] OTHER: _____

**FIRE SUPPRESSION:**
- [ ] HOSE CABINETS
- [ ] SPRINKLER SYSTEM
- [ ] CLEAN AGENT FIRE-EXTINGUISHING SYSTEM
- [ ] PORTABLE FIRE EXTINGUISHER
- [ ] FIRE EXTINGUISHER CABINETS
- [ ] OTHER: _____

**SAFETY:**
- [ ] GAS DETECTION SYSTEM
- [ ] BREATHING AIR SYSTEM
- [ ] COMBUSTIBLE GAS DETECTORS
- [ ] TOXIC GAS DETECTORS
- [ ] OXYGEN ANALYSIS
- [ ] OTHER: _____

**BUILDING HYDRANT (STANDPIPES):**
- [ ] CLASS I
- [ ] CLASS II
- [ ] OTHER: _____

** MISCELLANEOUS:**
- [ ] EMERGENCY LIGHTING
- [ ] SPRINKLER FLOW SWITCH
- [ ] OTHER: _____

## 7. PLUMBING

**PLUMBING CODE:**
- [ ] INTERNATIONAL PLUMBING CODE
- [ ] OTHER: _____

### 7.1 PLUMBING SYSTEMS

**DOMESTIC WATER:**
- [ ] FIRE WATER
- [ ] NATURAL GAS
- [ ] SANITARY SEWER
- [ ] INSTRUMENT AIR
- [ ] STEAM
- [ ] OTHER: _____

**COOLING TOWER:**
- [ ] CONDENSATE RETURN
- [ ] OTHER: _____

**SUPPLY**
- [ ] OILY WATER SEWER
- [ ] OTHER: _____

**RETURN**
- [ ] OILY WATER SEWER
- [ ] OTHER: _____

## 7.2 PLUMBING FIXTURES AND SPECIALTIES

**WATER CLOSET**
- [ ] EMERGENCY SHOWER
- [ ] GARbage DISPOSAL
- [ ] OTHER: _____

**URINAL**
- [ ] EMERGENCY EYE WASH
- [ ] WATER HEATER
- [ ] OTHER: _____

**LAVATORY**
- [ ] ELECTRICAL WATER COOLER
- [ ] GREASE INTERCEPTOR
- [ ] OTHER: _____

**KITCHEN SINK**
- [ ] HOSE BIB
- [ ] OIL INTERCEPTOR
- [ ] OTHER: _____

**SERVICE SINK**
- [ ] SHOWER STALL
- [ ] VACUUM PUMP
- [ ] OTHER: _____

**LAB SINK**
- [ ] DISHWASHER
- [ ] BACKFLOW PREVENTOR
- [ ] OTHER: _____

**FLOOR DRAIN**
- [ ] ROUGH-IN (FOR ICE MAKER)
- [ ] PRESSURE REGULATOR
- [ ] OTHER: _____