STATE OF LOUISIANA
DEPARTMENT OF PUBLIC SAFETY AND CORRECTIONS
OFFICE OF STATE FIRE MARSHAL CODE ENFORCEMENT AND BUILDING SAFETY
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INDUSTRIALIZED BUILDING PLAN REVIEW CHECKLIST for compliance with the LOUISIANA STATE UNIFORM CONSTRUCTION CODE

Act 364 of the Louisiana 2007 Regular Session, requires Industrialized Buildings that are constructed after January 1, 2007, that are intended for sale or use in Louisiana, to meet or exceed the requirements of the Louisiana State Uniform Construction Code (LSUCC), R.S. 40:1730.21 through 1730.39, as well as the life safety, accessibility and energy codes, rules and laws enforced by the Office of the State Fire Marshal, R.S. 40:1574 through R.S. 40:1593.

Prior to manufacture, plans and specifications for each industrialized building, module, and/or modular component are required to be submitted to the Office of the State Fire Marshal, Division of Code Enforcement and Building Safety, for review for compliance with all codes, rules and laws that are enforced by the Office of the State Fire Marshal. Plan review for compliance with the Louisiana State Uniform Construction Code (LSUCC) will be performed by this office, unless performed by a third party provider that is properly registered with the Louisiana State Uniform Construction Code Council for the particular scope of work.

The information outlined in this document represents the minimum criteria necessary for this office to determine compliance with the LSUCC. Please note that this list is not comprehensive or all-inclusive and does not address all aspects of every building type. In order to ensure that the proposed projects can be expeditiously reviewed, the requirements of the LSUCC should be addressed in the documents submitted for review. Applicable codes for new construction of Industrialized Buildings are as follows:

- **2012 International Building Code (IBC), (excluding Chapters 1, 11, 27, and 29);**
- **2012 International Mechanical Code (IMC);**
- **2013 Louisiana State Plumbing Code (LSPC);**
- **2012 International Fuel Gas Code (IFGC);**
- **2011 National Electric Code (NEC).**

Drawings and specifications shall also document compliance with the Louisiana Revised Statutes (LRS, see Fire Marshal's Act on our web site at www.dps.state.la.us/sfm), the Life Safety Code (NFPA 101) and all promulgated National Fire Codes, the Americans with Disabilities Act and Architectural Barriers Act (see ADA-ABA, under Codes/Rules/Laws on our web site), the Fair Housing Act, the Commercial Building Energy Conservation Code, (L.R.S. 40:1730.41 through 1730.48), the Architects Licensing Law, (L.R.S. 37:155), the Engineers/Land Surveyors Licensing Law (L.R.S. 37:696(B) & LAC 46:LXI. 2701), and the Louisiana State Sanitary Code (LAC Title 51, as may be applicable, see “PLUMBING INFORMATION” below).

The applicable general information contained in this checklist should be clearly identified on the drawings and/or specifications, or provided in the form of an attachment to the contract documents. An attachment is acceptable as long as it is part of the official construction documentation. Failure to provide this information may delay the review of the project or cause it to be rejected for lack of significant information. Additional information and/or drawings are never discouraged and may be necessary to describe complex or unique conditions contained in the project. Please verify that each item below is: A. in your submittal, B. correct, and C. is coordinated within the submittal. Thank you for your help, in completing and coordinating the items in this checklist.

REVIEW APPLICATION, CHECKLIST, FEE & DOCUMENTATION

___ Completed Plan Review Application form;
___ Check or money order (no cash accepted) for plan review fee, payable to the LA Department of Public Safety. Calculate the required review fee from the Fee Calculation schedule, (visit our website at www.dps.state.la.us/sfm for a copy of the current fee schedule);
___ One set of drawings and specifications stamped by the Louisiana licensed architect or civil engineer (Professional of Record, (POR)) preparing the documents when applicable. Drawings shall be legible prints or photocopies, live ink or pencil applied by hand is not acceptable;
___ Structural calculations;
___ COMcheck compliance documents.
___ An electronic copy of the submittal on CD Rom;
___ Documentation identifying the third party inspector(s) retained to perform the in-plant inspections.

DRAWINGS AND SPECIFICATIONS FOR
INDUSTRIALIZED BUILDING NEW CONSTRUCTION

COVER SHEET INFORMATION

___ Identify the proposed occupancy classification(s) [IBC Chapter 3];

- ___ Where the building contains multiple occupancy classifications, (not classified as "Accessory" to the main occupancy), indicate whether it's designed as "Separated Occupancies" or "Non-separated Occupancies" [IBC Section 508];
- ___ Identify any "Accessory Occupancies" [IBC Section 508.2] *(other occupancy types less than 10% of the main occupancy)*, and any "Incidental Use Areas" [IBC Table 509];
- ___ Identify if any "Special Detailed Requirements" based on use and occupancy apply [IBC Chapter 4];

___ Identify the new construction type (and existing if an addition) [IBC Table 602 (and IEBC Chapter 11 if an addition)];

___ Indicate the gross square footage of each floor, including any covered open areas that are subject to occupancy. If the project is an addition, identify the existing building area separately [IBC Section 503 and IEBC Section 1102]

___ Document compliance with the allowable height and building area limitations [IBC Chapter 5]. Provide calculations if area modifications are used [IBC Section 506]

___ Identify any Fire Protection Systems that are to be provided [IBC Chapter 9]:

- ___ Automatic sprinkler system type and extent; [IBC Section 903]
- ___ Alternative extinguishing systems; [IBC Section 904]
- ___ Standpipe system; [IBC Section 905]
- ___ Portable fire extinguisher size, type and locations; [IBC Section 906]
- ___ Automatic or manual fire alarm system and extent; [IBC Section 907]
- ___ Other fire protection / suppression systems.

Structural Design Data: (May also be indicated on the structural drawings)

___ Design loads must be included within the construction documents in a manner such that the design loads are clear for all parts of the structure [IBC Section 1603].

Design Loads:

___ Indicate the load values used in the design of the structural components, as applicable:

- ___ Floor Live load; [IBC Table 1607.1]
- ___ Floor Live loads above the first floor; [IBC Table 1607.1]
- ___ Corridor Live loads; [IBC Table 1607.1]
- ___ Roof Live load; [Table 1607.1]
- ___ Roof (ground) snow load; [IBC Figure 1608.2]

Wind Design Data:

___ Indicate the following:

- ___ Ultimate Design Wind Speed, *Vult* (3-second gust) for the site location [IBC Figure 1609.A., B. or C.];
- ___ Nominal Design Wind Speed, ***V****asd* for the site location [IBC Figure 1609.3.1];
- ___ Risk Category [IBC Table 1604.5 or ASCE 7-10 Table 1.5-1];
- ___ Wind Exposure Category [IBC Section 1609.4.3] and applicable governing wind direction;
- ___ Applicable Internal Pressure Coefficient [ASCE 7-10 Table 26.11-1];
- ___ Indicate the design wind pressures in terms of psf used for the design of exterior Component and Cladding materials.

___ Indicate the design method used to determine the wind loads (Take note of the specific limitations of each):

- ___ Conventional Light-Frame Construction provisions of IBC Section 2308, (limited applicability),
- ___ ASCE 7-10 Directional procedure for buildings, [ASCE 7-10 Chapter 27]
- ___ ASCE 7-10 Envelope procedure, [ASCE 7-10 Chapter 28]
- ___ ASCE 7-10 Directional procedure for building appurtenances and other structures, [ASCE 7-10 Chapter 29]
- ___ ASCE 7-10 Wind Tunnel Procedure for all buildings and other structures, [ASCE 7-10 Chapter 31]
- ___ AF&PA Wood Frame Construction Manual, (limited applicability),
- ___ SSTD-10, (limited applicability),
- ___ Other methods or manuals as allowed or required by the code for specific building construction methods.

Earthquake Design Data:

___ The following shall be shown regardless of whether seismic loads govern the design of the lateral-force-resisting system of the building: [IBC Sections 1603.1.5 and 1613]

- ___ *Risk category* [IBC Table 1605.5];
- ___ Seismic importance factor, I_e [ASCE 7-10 Section 11.5];
- ___ Mapped spectral response accelerations, S_S and S_1, [IBC Section 1613.3];
- ___ Site class – if applicable [IBC Table 1613.3 and ASCE 7-10 Chapter 20];
- ___ Design spectral response acceleration parameters, S_S and S_{DI}, [IBC Section 1613.3.4];
- ___ Seismic design category [IBC Tables 1613.3.5(1) & 1613.3.5(2) – Highest of the two];
- ___ Identify the basic seismic-force-resisting system(s) [ASCE 7-10 Section 12.2 or Section 12.14.4];
- ___ Indicate the design base shear [ASCE 7-10 Section 12.8.1 or Section 12.14.8.1];
- ___ Seismic response coefficient(s), *Cs* [ASCE 7-10 Table 12.2-1];
- ___ Response modification factor(s), *R* [ASCE 7-10 Table 12.2-1];
- ___ Analysis procedure used [ASCE 7-10 Section 12.6 or Section 12.14];

FLOOR PLAN INFORMATION

Provide floor plan(s) drawn to a scale indicated on the plan and dimensioned. Plan(s) should indicate as a minimum:

- ___ Room names and/or uses;
- ___ Door and Window locations;
- ___ Clearly indicate the type and locations of any required fire resistance rated or smoke rated construction used in the project. (See Fire-Resistance Ratings, Fire Walls, Fire Barriers, Fire Partitions, Smoke Barriers, Smoke Partitions, etc. [IBC Table 601 and Chapter 7]):
  - ___ Building Element protection required by the Construction Type [IBC Table 601]
  - ___ Exterior wall construction [Table 602] including opening protection [IBC Section 705 and Table 705.8]
  - ___ Incidental Use Area protection [IBC Table 509]
  - ___ Occupancy Separations (if Separated Occupancies) [IBC Table 508.4]
  - ___ Corridors [IBC Section 1018 and Table 1018.1]
  - ___ Interior Exit Stairway and Ramps [IBC Section 1022]
  - ___ Exit Passageways [IBC Section 1023]
  - ___ Horizontal Exits [IBC Section 1025]
  - ___ Fire Wall separations [IBC Section 706 and IBC Table 706.4]
  - ___ Fire Barriers and Fire Area Separations [IBC Section 707 and IBC Table 707.3.10]
  - ___ Fire Partitions [IBC Section 708]
  - ___ Smoke Barriers and Smoke Partitions [IBC Sections 709 and 710]
  - ___ Vertical Openings and Shafts [IBC Section 712 and 713]
  - ___ Other conditions that may require protection
- ___ Identify the listed tested assemblies, from an approved testing agency, used to achieve the fire resistance rating of the proposed construction (UL, ETL, FM, GA, WP, WH, etc.) including joints in the assemblies. [IBC Section 714,715 & 716]
- ___ Identify key features of the Means of Egress: (Chapter 10)
- ___ Indicate occupant loads for each room in Assembly (A1, A2, A3, A4, and A5) occupancies: [IBC Table 1004.1.2]
- ___ Indicate stair, corridor, aisle, and doorway widths in all occupancies: [IBC Section 1005]
- ___ Indicate locations of structural elements, including shear walls used to transfer lateral forces.

SCHEDULES and DETAILS

Provide sufficient information to identify features indicated in the construction documents:

- ___ Schedules to indicate door / frame and window opening sizes configurations, types, materials, fire resistance ratings and door operating hardware;
- ___ If the project is to be located in a wind borne debris region, (basic wind speed = 120 mph or greater), provide details, specifications and/or schedules to identify the method of opening protection used, and its anchorage to the building. [IBC Sections 1609.1.2 and 1609.2]
- ___ Identify the interior finishes used in each room of the project:

  Walls and Ceilings [IBC Table 803.5]

  Floors [IBC Section 804]

STRUCTURAL FRAMING INFORMATION

Provide framing plan(s) drawn to a scale indicated on the plan, dimensioned, and keyed to the floor plan(s). Plan(s) should indicate as a minimum:

___ Floor and roof framing plans (as applicable);
___ Identify structural members - Materials used, Sizes, and spacing;
___ Identify the Main Wind Force Resisting System. Provide sufficient detail to demonstrate that the structure has been designed to withstand the indicated design loads;
___ Locate lateral bracing, ties, clips, sheathing or other elements and materials used to reinforce or otherwise provide stability to the structure and provide continuous path for loads from roof to grade.
___ Provide anchorage details. Indicate types, locations, sizes and spacing;
___ Design loads must be included within the construction documents in a manner such that the design loads are clear for all parts of the structure [IBC Section 1603]. (See also COVER SHEET INFORMATION above)

EXTERIOR ELEVATION INFORMATION

Provide elevations of each side of the building. Plans should indicate as a minimum:

___ Vertical distance from grade to the average height of the highest roof surface [IBC Sections 502 and 504];
___ Opening locations and types indicated to scale;
___ For 130 MPH (3 Second Gust) wind zones and above, documents should clearly identify methods used for opening protection;
___ Provide details and specifications to indicate that components and cladding (including the roof deck and roof coverings) are designed and are to be installed to withstand the pressures determined in accordance with ASCE 7-10.
___ Identify the lateral bracing system.

BUILDING AND WALL SECTIONS

___ Wall sections of each bearing wall condition, interior and exterior, to indicate a continuous load path through the structure from the roof to the floor system and the method of attachment to a foundation system at each condition;
___ Drawings should clearly indicate the components required to resist wind forces and to achieve the required "continuous load path" from roof peak to foundation anchorage.
___ Provide details and specifications to indicate that components and cladding are designed and installed to withstand the pressures determined in accordance with ASCE 7-10. (See also EXTERIOR ELEVATION INFORMATION above)
___ Identify structural members;
___ Identify materials;
___ Provide dimensions;
___ Specify anchorage/connector types used and indicate their proposed locations and spacing. (See also STRUCTURAL FRAMING INFORMATION above)

MECHANICAL INFORMATION

Provide mechanical drawings to indicate as a minimum:

___ Equipment types and locations;
___ Ductwork and piping sizes, CFM, and locations;
___ Mechanical ventilation air balance design calculations;
___ Return, supply, exhaust and outdoor air supply in accordance with IMC 403.1, 403.2, 403.2.1, 403.3 and Table 403.3 requirements; (see also IBC Section 1018.5 & LSPC 405)
___ Electrical and/or fuel gas requirements of proposed equipment;
___ Identify the devices used to protect duct penetrations and air transfer openings in assemblies required to be protected [IBC Section 717];
___ Smoke control system details (where required) [IBC Section 909 and IMC Chapter 5];
___ Commercial hood and duct system details (where applicable) [IBC Section 909 and IMC Chapter 5]. (See also checklist available on our website at www.dps.state.la.us/sfm)

PLUMBING INFORMATION

Plans should indicate as a minimum:

___ Fixture types and locations;
___ Usable Floor Space (LSPC 411.A.4);
___ Water supply and distribution, Specify source of water supply;
___ Identify piping materials, fittings, and valves;
___ Backflow protection of potable water;
___ Sanitary drainage and cleanouts;
___ Specify method of sewage disposal;

___ Grease trap/interceptor type, size and location (where applicable);
___ Vent sizes and locations;
___ Plumbing riser and dimensioned Plumbing Layout Diagram(s);
___ Storm/Roof Drainage;
___ Water heating equipment size and type;
___ Non-conventional plumbing designs (LSPC 1203 / 1811 of LSPC, if applicable);
___ Identify the materials and methods of construction used to protect through penetrations and membrane penetrations of horizontal assemblies and fire-resistance-rated wall assemblies [IBC Section 714]

In accordance with the Public Health-Sanitary Code, (LAC Title 51), Part I, Section 119, certain activities require submission of plans to the state health officer, who must approve the plans and issue a permit prior to the initiation of the activity. Refer to the chart below to determine if submission to the DHH - Office of Public Health is required.

Plans for proposed construction, renovation, or use of the following buildings and establishments shall be submitted to the state health officer for review and approval before construction. (LAC Title 51 Part 1, Section 119)

Manufacturing, Processing, Packing and Holding of Food, Drugs and Cosmetics (Part VI)	Food or Drug Manufacturers., Distributors, Wholesalers, or Warehouses; Food Salvaging Operations, Bottled Drinking Water Processor/Packagers (109.B) Bakeries and Manufacturing Confectioneries (505.A.1) Soft Drink Manufacturing (1105.A) Cold Storage and Ice Plants (1303.A)
Milk, Milk Products, and Manufactured Milk Products (Part VII)	All dairies from which milk or milk products are offered for sale (301.A) All milk and milk products plants from which milk or milk products are offered for sale (501.A)
Frozen Desserts (Part VIII)	Plants for the production of frozen desserts (127.A) Depots for Mobile Frozen Dessert Units (141)
Marine and Fresh Water Animal Food Products (Part IX)	Establishments for the cleaning, shucking, picking, peeling, or packing of any marine or fresh-water animal food product (313.A)
Game Bird and Small Animal Slaughter and Processing (Part X)	Every slaughter house and meat packing plant (113.B)
Animals and Animal Diseases; Rendering of Animals (Part XI)	Rendering plant (301.B)
Water Supplies (Part XII)	Public water systems/supplies (105.B)
Sewage Disposal (Part XIII)	Community sewerage system, or make a modification of an existing system which changes the system's capacity, effluent quality, point of discharge, hydraulic or contaminant loadings, or operation of the component units of the system (501.A) Individual sewerage system of any kind (701.A)
Travel Trailers and Mobile/Manufactured Homes (Part XIV – Chapters 15 & 16)	Travel trailer parks (LSPC – 1507) Mobile/Manufactured home parks (LSPC – 1607)
Hotels, Lodging Houses, Boarding Houses (Part XV)	Hotel, lodging house or boarding house (105.A)
Campsites (Part XVI)	Campsite (301.A)
Public Buildings, Schools, and Other Institutions (Part XVII)	Facilities for any state agency, or any institutional buildings. Institutions include, but are not limited to schools, kindergartens, nursery schools, trade schools, colleges, universities, hospitals, nursing homes, jails, and mortuaries. (103.A)
Jails, Prisons and Other Institutions of Detention or Incarceration (Part XVIII)	Jails, prisons or other institutions of detention or incarceration (101.A)
Hospitals, Ambulatory Surgical Centers, Renal Dialysis Centers (Part XIX)	Hospital, ambulatory surgical center, or renal dialysis center (103.A)
Nursing Homes (Part XX)	Nursing home (103.A)
Day Care Centers and Residential Facilities (Part XXI)	Child and adult day care centers (103.A) Residential Facilities include, but are not limited to group homes, community

	homes, maternity homes, juvenile detention centers, emergency shelters, halfway homes and schools for the mentally retarded.
Retail Food Establishments (Part XXIII)	Food establishment or retail food store/market (307.A) Itinerant food establishments or itinerant retail food stores/markets (4131.A) Mobile Food Establishments/Depot (4509.A & 4523.B)
Swimming Pools and Natural or Semi-Artificial Swimming or Bathing Places (Part XXIV)	Swimming pool, water park or water slide public or private, including, but not limited to, those owned by clubs, private schools, apartment houses, and condominiums. (103.A.b)
Burial, Transportation, Disinterment or Other Disposition of Dead Human Bodies (Part XXVI)	Funeral establishments (105.A)

If the proposed project meets one or more of the descriptions above, contact a sanitarian or an engineer at the appropriate Department of Public Health regional office to inquire where plans and specifications are to be submitted. See http://www.dhh.la.gov/index.cfm/directory/category/233 for a listing of offices and contact information.

FUEL GAS INFORMATION

Plans should indicate as a minimum:

___ Fuel Gas type;
___ Pipe sizes, entrance location(s), controls;
___ Equipment and appliance locations;
___ Schedules of equipment and appliance demands;
___ Required clearances to combustible materials;
___ Combustion, Ventilation, and Dilution air requirements, locations and details;
___ Chimney and vent sizes, locations, and details;
___ Identify the materials and methods of construction used to protect through penetrations and membrane penetrations of horizontal assemblies and fire-resistance-rated wall assemblies [IBC Section 714]

ELECTRICAL INFORMATION

Plans should indicate as a minimum:

___ Receptacle and Lighting locations with circuits identified and symbol legends;
___ GFCI locations;
___ Exit Signage and Emergency Lighting locations [IBC Sections 1006 and 1011];
___ Equipment and Fixture schedules;
___ Indicate Meter type and location;
___ Panelboard ratings & locations;
___ Balanced panel load schedules in amps and KVA;
___ Size and ratings of all overcurrent protection devices;
___ Specify all conductor sizes in accordance with NEC 215.5, 215.2, 220.3 and annex G 80.21(a)(b)(c) requirements.
___ Identify the materials and methods of construction used to protect through penetrations and membrane penetrations of horizontal assemblies and fire-resistance-rated wall assemblies [IBC Section 714]