

Louisiana State University Design Standards

DIVISION 14 -CONVEYING EQUIPMENT

1 GENERAL TO ALL ELEVATORS AND EQUIPMENT

- 1.1 ALL elevator equipment, without exception, installed on this campus shall be non-proprietary.
 - 1.1.1 Any elevator company shall be allowed to purchase, install and maintain this equipment.
 - 1.1.2 Spare parts and controller software shall be available for sale for replacement stock to be maintained on site or anywhere the owner chooses in order to properly maintain the elevator equipment. A published readily available price list is required and the parts shall be sold free of additional requirements.
 - 1.1.3 Should a diagnostic or service tool of any kind be needed to perform any kind of adjustment or troubleshooting, the tool shall be provided with the equipment or the tool may be placed on-board and shall operate all functions. Any on-board diagnostic service tool shall have a readable digital display. This tool shall have unrestricted access to all parameters, adjustments, and flags or notifications to fully install, service, or maintain any part of the equipment. All equipment and/or software shall be the same version as issued to OEM technicians maintaining the vertical transportation system. No expiring software, partial operation or keyed access is allowed. Price to replace any tool shall be supplied during bid phase, it shall remain the price for a period of 50 years with cost of living allowances calculated when requested.
 - 1.1.4 Factory and or on-site training shall be available from the original manufacturer and shall be open for enrollment of anyone wishing to learn about the adjustment, maintenance and troubleshooting of the equipment. Training fees shall be reasonable, appropriate, and in line with other types of equipment maintenance training.
 - 1.1.5 A technical support line shall be provided by the original manufacturers during normal working hours and shall be provided to anyone as designated by the owner. Technical support shall be free of charge for the life of the equipment.
 - 1.1.6 Engineering support shall be provided by the original manufacturer to any contractor or mechanic as

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- 1.4 At least one ADA 3500 lb. capacity elevator that will accommodate a full size stretcher in the flat position per the IBC building code is required to serve each floor of the building.
- 1.5 State of the art microprocessor based control systems shall include as a minimum remote monitoring, independent service, firefighter service, inspection, hoistway access, and two way leveling.
- 1.6 Elevator controller shall have comprehensive means to access computer memory including status and fault logs. Controller shall have permanent indicators for important elevator statuses as an integral part of the system. Programming shall be stored in ROM or flash memory.
- 1.7 1.7 All elevator systems must be capable of remote monitoring through a universal system.
- 1.8 Provide state of the art microprocessor based AC drive control systems.
- 1.9 All motors used in the elevator system shall be guaranteed to be a minimum of 90% efficient at full load operation.
- 1.10 All equipment shall not be rated at more than 90% of the capacity of the product both electrically and mechanically. Electrically shall not exceed 90% of nameplate rating and mechanically sheave shaft loads, pumps and motors shall not exceed 90% of their maximum ratings.
- 1.11 The Firefighter Service key-switch shall be operated by the EPCO MFD-1 key and all other key-switches and locks shall be Best 7-pin cylinder key-switches and locks per LSU's priority keying.
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- 1.31 Provide hoistway access escutcheons and escutcheon tubes in all elevator hoistway doors.
- 1.32 All door operators shall be sized and rated for heavy duty operation with a minimum operating speed of 2.5 feet per second.
- 1.33 All wiring installed from hatch to controller and from car to the controller shall have 10% spare wiring

