



Car Door Position Monitoring and Door Lock Monitoring (DPM/DLM)

ASME A17.1 (2016)- 2.26.5; A17.3 (2015)- 3.10.12, 4.7.6, 4.7.7, 4.7.9

The intent of this Industry Bulletin is to provide clarification regarding the Bureau of Elevator Safety’s position on DPM/DLM. The purpose of the requirements in the references above (A17.1 and A17.3) is to monitor the car door position and prevent Automatic Operation of an elevator if any fault is detected in the wiring, door locks or contacts or a system is bypassed as detected by the various detection means. This applies to all elevators provided with hoistway doors that are mechanically coupled to power operated car doors. The required operations for detection are to only take place in the landing zone and at landings. Upon activation of DPM/DLM, movement of the car by any Automatic Operation is prevented.

All new units installed under A17.1-2000 or later, and all existing units installed prior to the adoption of A17.3-2015 are expected to meet the requirements of Door Lock Monitoring and Firefighter’s Emergency Operations. These requirements as provided in the appropriate code edition for their installations and in ASME Code Committee interpretations 04-10 and 03-22, state that DPM/DLM must function as per code when an elevator car is operating on Firefighters’ Emergency Operation (FEO). These requirements will not change under the newer versions of code being adopted in Florida at the end of this calendar year: A17.1 (2019) and A17.3 (2020).

Testing of DPM/ DLM is not specifically addressed in A17.1 or A17.2. Therefore, Certified Elevator Inspectors (CEI’s) are expected to utilize the testing instructions and procedures as provided by the DPM/DLM manufacturers for all new installations and existing unit alterations to ensure compliance.

Based on the above information all Florida CEI’s should familiarize themselves with the various equipment being provided to add DPM/DLM monitoring to existing equipment. To ensure accuracy, all units should be checked to the specifications provided by the manufacturer and verify that DPM/DLM functions according to code (8.7 and 8.10). This includes monitoring while FEO is activated and operational. All necessary documentation, to ensure continued proper and safe testing, must be provided onsite and in the Maintenance Control Program (MCP). All units should also be checked for the following required documentation:

- Any permits required (alterations only)
- Acceptance Test Records and Tags as required in code
- Revised electrical schematics indicating the DPM/DLM
- Complete manufacturer’s testing instruction

MCP’S INDICATING TESTING OTHER THAN DESCRIBED IN ADOPTED CODE AND IN FORMAL CODE INTERPRETATIONS MUST BE CORRECTED

Contact your elevator service provider and visit the Bureau website at <http://www.myfloridalicense.com/DBPR/elevator-safety/bes> for more information.