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**GOVERNMENT NOTICES • GOEWERMENTSKENNISGEWINGS**

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**DEPARTMENT OF LABOUR**

NO. R. 94

03 FEBRUARY 2017

**OCCUPATIONAL HEALTH AND SAFETY ACT (ACT NO. 85 OF 1993), AS  
AMENDED****CODE OF PRACTICE FOR EXISTING GOODS HOISTS INSTALLATIONS,  
LIFT, ESCALATOR AND PASSENGER CONVEYOR REGULATIONS, 2010**

I, T. Szana, appointed as the Chief Inspector in terms of Section 27(1) of the said Act, and by virtue of the powers delegated to me by the Minister of Labour in terms of section 42(1) of the Act, after consultation with the Advisory Council for Occupational Health and Safety, hereby, under section 44 of the Occupational Health and Safety Act (Act No. 85 of 1993), as amended, incorporate "Code of practice for existing goods hoists installations" (Installed prior 30 September 2015) that were previously regulated under the Driven Machinery Regulations, 2008 into Lift, Escalator and Passenger Conveyor Regulations, 2010

T. Szana  
Chief Inspector

## CODE OF PRACTICE FOR EXISTING GOODS HOISTS INSTALLATIONS

### FOREWORD

This Code of Practice is to provide the minimum requirements for existing good hoists (Installed prior 30 September 2015) that were previously regulated under the Driven Machinery Regulations, 2008.

In the new Driven Machinery Regulations promulgated in 2015, regulation 17 was repealed and it gave a directive that all existing good hoists shall within five years comply with the provisions of the Lift Escalator and Passenger Conveyor Regulations.

### Machinery Spaces

- Machinery shall be kept in safe lockable spaces or cabinets.
- Safe accesses, free of any storage or rubbish shall be provided to the machinery spaces.
- Ladders to these spaces shall be permanently installed and shall provide safe access well into these machinery spaces.
- The working areas of the machinery spaces above the shafts shall have full floor covering.
- The clear heights of the working spaces shall not be less than 1.5 meters.
- The lighting in the machinery spaces shall be 300 Lux and the accesses to these spaces 150 Lux.
- There shall be 220 Volt socket outlets in the machinery spaces.
- Record book and certificate holders shall be kept in the machinery spaces.

### Machinery

- Rotating elements shall be guarded or painted caution yellow if they pose a low risk such as smooth flywheels.
- Slack rope devices shall be installed on positive drive (drum or hydraulic) units.
- Safety gears shall be installed on units with less than two ropes - if design permits.
- Safeties shall, where possible be installed under the cars and not on top of the crown beams.
- Sheaves for the suspension ropes shall be 25 times the diameter of the suspension ropes.
- When more than one suspension rope is used, there shall be automatic tensioning devices – compression springs.

### Controls

- There shall be lockable main switches at the accesses to the machinery spaces.
- There shall be well kept, up to date durable and legible wiring diagrams.

- Controllers shall have two contactors for the main motors – mains + up or mains + down.
- Two independent contacts of the motor contactors shall be in series with the brake coil.
- Three phase installations shall be protected with reverse phase protections.
- All units shall be equipped with top and bottom final limit switches.
- Where shaft inspections or repairs require a person to ride on top of the car, inspection controls shall be installed on top of the car.
- The cars shall be provided with overload devices and signals.
- There shall be no controls inside the cars.
- Push-pull emergency stop switches shall be installed on top of the car and in the pit with stop switches on each landing if the landing doors are perforate.
- The landing door locks shall have two contacts in circuit – one to ensure the door is closed and one to ensure the lock is made.
- The car doors shall have gate switches which shall be tamper free and out of reach of the users.
- 220 Volt light and socket outlet circuits shall be protected with earth leakage devices.

#### **Shaft enclosures**

- The shafts shall be enclosed to a height of 2.5 meters in all areas accessible to persons. The enclosures shall have sufficient strengths – they shall withstand 300 N forces).
- When the cars are travelling at speeds exceeding 0.25 meters per second, the shaft enclosure shall be imperforated.
- Shaft lights shall be installed with intensity of 100 Lux anywhere in the shafts.
- The landing doors shall be equipped with electro-mechanical locking devices. Two contacts shall be used in the control circuits.
- Triangle dislocking devices shall be provided for all landing doors. Boxes with triangle locks to protect other types of dislocking devices will also be acceptable.
- When the cars are travelling at speeds exceeding 0.25 meters per second, the landing doors shall be imperforated.
- When the landing doors are imperforated, there shall be indications that the cars has stopped on a landing – vision panels or indication lights.
- On each landing there shall be a durable notice which indicates the maximum allowable load and forbidding persons from riding in the car.
- In the pits without the necessary refuge space (500mm x 600mm x 1 000mm) there shall be properly designed bumping poles to land the cars on when entering the pit – Instructions shall be displayed to use the bumping pole.
- Car to landing sill clearances shall not exceed 35mm.
- Safe Spaces on top of the car and in the pit shall be clearly identified.
- Bi-parting and vertical rise doors shall be counter balances with proper handles or pull straps..

#### **Cars**

- The cars shall be equipped with gates, scanners or “load shift bars” and it shall not be possible to move the cars unless these devices are closed.
- The car roofs shall cover the full car size (floor areas of the cars).

- The car roof shall have sufficient strength to carry the weight of two persons (1 000N each) anywhere on the roof.
- Inside the car there shall be a durable notice which indicates the maximum allowable load and forbidding persons from riding in the car.
- There shall be in the cars electric lights of at least 100 Lux.
- Positive drive units shall have buffers on top of the cars which shall not make contact before the final limits open.
- Positive drive units with limited head rooms (not spaces of 500mm x 600mm x 800mm) and top of car inspection controls shall have extendable bumping poles with safety switches on top of the lift cars.

**Registration**

- All units must be registered with the Regional office of Department of Labour.
- All Goods hoists must comply with the requirements for Lift Escalator and Passenger Conveyor Regulations.