Elevating and Amusement Devices
Safety Division

DIRECTOR’S RULING

Ref. No.: 122/95
Rev. No.: Date:

September 15/95

Subject: CENTRE-OPENING AND TWO-SPEED HALL AND CAR DOORS – RELATING DEVICES EQUIPPED WITH 1/8” DIA AIR CORD OF 7X7 STRAND CONSTRUCTION

Sent to: ALL CONTRACTORS IN SCOPE U1 & L1

1. BACKGROUND

It has been brought to our attention that some centre-opening and two-speed hall and car door relating devices may be equipped with 1/8” diameter door relating cables (1/8” air cord) with only 7x7 stranding rather than more flexible 7x19 stranding. Individual wires of 7x7 stranding are courser and stiffer and more susceptible to fatigue failure as they bend around the pulleys. According to reports, their service life is only 2 to 4 years as opposed to 10 to 30 years for 7x19 construction, and once breaks begin, cable failure can occur within 1 to 2 months. The potential hazard arising is that the car can run with an open door panel.

2. ORDER TO CONTRACTORS MAINTAINING THE SUBJECT TYPE EQUIPMENT

2.1 On your next visit to the subject elevators, carefully examine the condition of the door relating device cables and determine their construction.

2.2 If any cable is found with seven strands each comprising only seven individual wires, it shall be replaced with 7x19 cable within a month, even if no breaks are visible.

2.3 If, for any reason, you cannot obtain authorization for the replacement from the elevator owner, you must notify this office immediately, in writing (attention N. Benn - Chief Inspector), indicating installation numbers of the relevant elevators.

2.4 Before installing a new cable, you must verify that the stranding of the replacement cable is 7x19.