Subject: 1) CONTINUITY OF COMMON GROUND ON CONTROLLERS TO BEVERIFIED
2) VERIFICATION METHOD FOR BECKETT VV CONTROLLERS

Sent to: ALL ELEVATOR CONTRACTORS SCOPE U1, L1 AND F1

1. ORDER TO CONTRACTORS

1.1 Inspect each elevator controller, maintained by your company, to ensure that the common ground connection, from its source, to every coil or device shown in applicable schematics, is maintained as a ground buss. Any connection made via a bolt or stud must be made by washer, lockwasher and nut.

1.2 All ground connections must be checked on a regular basis for continuity and to ensure that they function as intended.

1.3 With respect to Beckett VV controllers, Beckett Elevator Ltd. advises: "Make coil connections via spade type terminal that insures the loop integrity or alternatively solder wires together at each coil position".

2. BACKGROUND

2.1 An incident was reported of a car moving with car and landing door open. The machine brake was held open, while the drive motor was not under power. Continuity of the common ground on the controller was interrupted between contactors U and M, as shown in the enclosed Beckett schematic diagram. The ground, upstream from U, became "hot", delivering sufficient voltage from P to keep U and M relays and ultimately MX in closed position. MX, in turn, caused the brake to open.

2.2 Reason for the ground failure: The ground loop was not installed in the form of an integral wire. Instead, the grounding was achieved by means of a screw connection. It became loose and created a partial loss of ground.