### Safety Alert Bulletin

**Elevating and Amusement Devices**  
**Safety Division**  
**Ref. No.:** 165 / 02  
**Rev. No.:**  
**Date:** July 24, 2002  

**Subject:** US Elevator Ascension 2000 Hydraulic Elevator Controls – Door Monitor  

**Sent to:** All Elevator Contractors in Scope U1, L1, F1 & Consultants

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#### 1. INTRODUCTION

1.1 As the result of an initial inspection on an Ascension 2000 hydraulic elevator controller, a TSSA inspector found that the door monitor feature on the elevator worked when first tested. Other tests were performed to check redundancy. During the redundancy testing, jumpers were placed on the wrong terminals and some of the printed circuit boards on the control were damaged. After the control was repaired and redundancy tests completed, the inspector again tested the door monitor and found it no longer functioned.

1.2 Upon investigation, it was found that the door monitor feature on this control can be turned on and off by use of the maintenance tool. When the jumpers for testing redundancy were put on the wrong terminals it caused the setting for the door monitor feature to be turned off.

#### 2. ORDER TO CONTRACTORS

2.1 Not later than October 1, 2002, contractors shall identify all elevator installations under their maintenance, that are equipped with US Elevator Ascension 2000 Hydraulic Elevator Controls and test the door monitor circuit to ensure that this feature is turned on and functioning properly.

2.2 After this procedure is complete, a notation shall be made in the maintenance log book stating that the requirement of this ruling has been complied with.

#### 3. NOTES

3.1 Attached for your information is a partial manufacturers testing instruction for the door monitor feature for this control. (see page 2)

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This Director’s Order has been developed in consultation with the TSSA Elevating Devices Council.

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Further information may be obtained by contacting: Director - ED/AD Division, Technical Standards and Safety Authority,  
4th Floor – West Tower, 3300 Bloor St. West, Etobicoke ON., M8X 2X4  Ph:416 325 2000 Fx:416 326 8248
SIMULATED TESTING PROCEDURE

FRONT CAR DOOR LOCK: TEST 1

(THE TEST IS TO VERIFY CONFORMANCE TO CLAUSE 3.12.1.5(B))

1. Before this test is attempted, make sure all elevator functions, including safety circuit and door operator signals, are checked and working properly.

2. Mechanic 1 in the machine room; Mechanic 2 stationed in the cab.

3. Car placed in automatic service operation.

4. Run the car to front door opening level. Monitor that the elevator doors are fully open.

5. Mechanic 2 must remain inside the cab during testing and prevent anyone from entering the cab until testing is complete. (As an additional safeguard, the entrance at which tests are being conducted should be barricaded.)

6. Make jumper between terminals TV-24 and TV-8 (this jumps out the front car door lock or gate switch). Use terminal TV-8 and TV-3 if rear door exists.

7. The car is now shut down (Fault 4). Verify that the car will not run and that the doors will close (Mechanic 2 in the car should try to operate the car).

8. Remove jumper. Shut down signal is latched and the car will not restart until disconnect is cycled. Reset system. (To verify, Mechanic 2 in the car should again try to operate the car.)

9. Repeat test for rear door (if applicable) using terminal TV-8 and TV-3 in Step 6 (above).

10. Test 1 is complete.

11. Cycle disconnect to allow running.

12. Proceed to Test 2.