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## Hydraulic Valve Replacement and Testing

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### Issue:

This interpretation is to clarify the testing requirements for newly replaced hydraulic control valves.

### Interpretation, Policy or Procedure:

Replacement of any hydraulic control valve, whether make or model is same or different than the original, is a Minor 'B' alteration per Director's Order 226/07 r1, after which speed tests shall be performed as follows:

1. Where a control valve is replaced with a valve of a **different make and model**, the speed of the car shall be verified **with rated load** and with no load, in both directions.
2. Where a control valve is replaced with a valve of the **same make and model**, but the no load speed in the down direction of the original valve cannot be determined, the speed of the car shall also be verified **with rated load**, and with no load, in both directions.
3. Where a control valve is replaced with a valve of the **same make and model**, **and** the no load speed in the down direction is set to the **same** value as the original valve, the speed of the car may be verified **with no load** in both directions.

### Supporting Documentation

CSA-B44-07 requirement 8.10.3.3.2(o);

**8.10.3.3.2 (o)** Where an existing control valve is replaced with a valve of a different type, or where relief or check valves or the supply piping and fittings are replaced (8.7.3.24), tests shall be performed as specified in 8.10.3.2.2(t)\*, (u)\*, (v)\*, and (y)\*; and 8.10.3.2.3(cc).

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**8.10.3.2.3(cc)** *Car Speed [3.28.1(k)]*. The speed of the car shall be verified with rated load and with no load, in both directions. (Item 3.30)

### Risk/Hazard/Safety

If the full load speed in the down direction is not set correctly, the elevator may strike its buffers and in combination with the failure of a stopping means or in case of a reduced runby, injuries to riders may occur.

\*references have been updated to reflect intended testing requirements – not as shown in B44.