Subject: NORTHERN INSTANTANEOUS TYPE "A" SAFETIES POTENTIALLY INCAPACITATED BY MISADJUSTMENT

Sent to: ELEVATOR CONTRACTORS IN SCOPE A1 AND F1

Item 1: ORDER TO ALL ELEVATOR CONTRACTORS

1.1 The ORDER is directed to those elevator contractors who are involved in testing and inspection of INSTANTANEOUS SAFETIES TYPE "A", manufactured by NORTHERN ELEVATOR LTD.

1.2 On these safeties, you shall carry out checks and, if necessary, adjustments and parts replacement as specified in instructions #C-113-1035 (copied on the reverse of this Ruling), as soon as possible but not later than on your next annual inspection and testing of safeties scheduled in conformance with Section 23 of Ontario Regulation 229/81 under Elevating Devices Act, 1980. In addition, the examination of teeth texture condition, per instruction E, must be carried out on every following safeties load test.

1.3 Notwithstanding the time limit mentioned in 1.2, if any recent test of any such safeties indicated any irregularities in its operation, which you could not explain or eliminate. In particular abnormal sliding distance, in that case, you shall proceed immediately as outlined in 1.2 above.

1.4 For replacement part, contact Northern Elevator Ltd. directly. In ordering replacement pin (6) indicate "old" or "new" arrangement using detailed sketches shown on the reverse.

1.5 If, for any reason, you are not able to comply with this order, you must notify this Branch in writing.

Item 2: BACKGROUND

We have received the following MEMORANDUM, accompanied by a letter signed by Mr. Luis Mesquita, Manager of Mechanical Engineering, notifying us, in accordance with Section 24 of O.Reg. 229/81, of the possible need for replacement of parts on Northern safeties and asking our co-operation in reaching all maintenance companies in this province.

NORTHERN ELEVATOR LIMITED
270 FINCHER SQUARE, SCARBOROUGH, ONTARIO, CANADA M1X 1A5
TELEPHONE: (416) 291-2940 TELFAX: 416-254-707

MEMORANDUM

TO: Maintenance Contractor DATE: October 4, 1984
FROM: L. Mesquita SUBJECT: Northern Safety Inst. Type 'A'

We have been made aware of a failure of our type 'A' safety during a regular safety test inspection.

An investigation into this revealed that some premature wear coupled with improper clearances caused the pin that activates the dogs to brake due to excessive forces. Since the safety failed to stop within the prescribed distance.

Although the probability of this happening is very minimal, it is always Northern Elevator's policy to take all possible steps within our power to ensure safety.

Therefore, your cooperation is required in checking the safety mechanism according to the enclosed drawing #C-113-1035.

Please advise us and exchange dogs or pins immediately should conditions warrant.

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
TEETH TEXTURE (REF. E)

OLD ARRANGEMENT

NEW ARRANGEMENT

INSTANT SAFETY INSTRUCTIONS

A) LOCATE LEFT & RIGHT HAND BODIES (1) TO THE UNDERNEATH OF CAR SLING BUMPER (2).

B) SET & FASTEN THE ABOVE BODIES ALLOWING 1/32 (1/32 - 01 MAX) GAP BETWEEN THRUST BLOCK & RAIL'S FACES.

C) AT 'B' CONDITIONS 11-12 DEGREES ENGAGING ANGLE SHALL BE OBSERVED WHEN THE SAFETY DOG TEETH TEXTURE (3) CONTACTS THE RELATIVE RAIL FACE.

D) VERIFY SIMULTANEOUS DOGS (L.H. & R.H.) ENGAGEMENT TO THE RAILS WHEN PULL THROUGH FORCE IS APPLIED TO THE ACTIVATOR LEVER. (TWO ORDINARY PAPER SHEETS WILL BE HELPLESS IN THAT THEY SHOW TEETH MARKS - INDENTATIONS).

E) TEETH TEXTURE CONDITIONS MUST BE VERIFIED AFTER EVERY SAFETY LOAD TEST. WEARING OR CRACKS (REF. 'B') WILL INDICATE THE NEED OF DOGS REPLACEMENT. IN CASE OF DOUBT CONSULT NORTHERN ELEVATOR.

F) ACTIVATING PIN (5) MUST BE CHECKED BEFORE REASSEMBLING. PRESENCE OF CRACKS OR BENDING IMPLIES ITS REPLACEMENT.