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# CRANE HOIST ENGINEERING CORP.

5515 SALT LAKE AVENUE  
BELL, CALIFORNIA  
LOS ANGELES

February 26, 1954

Holmes & Narver, Inc.  
828 South Figueroa Street  
Los Angeles 17, California

Attention: Mr. David L. Narver, Jr.  
Chief Project Engineer

Subject: Building 419, Gantry Crane  
Our Job 8277

Gentlemen:

Upon receipt of your transmittal memorandum regarding the difficulties the jobsite is experiencing with the crane, we have again given this matter our careful consideration.

We find that the data contained in your memorandum confirms our previous opinion that the incident occurred during lowering, when moving the controller to faulty operation of the load brake. In the lowering direction, the mechanical reducer restrains the load, and speed is varying the speed of the hoist motor and mechanical brake so as to permit slip in direct proportion to the motor speed.

In the event that the brake should fail, the hoist motor then acts as a brake. However, the torque of the motor varies inversely with the resistance, a movement of the controller on lowering will automatically result in lowering.

This apparent failure of the mechanical load brake could be the result of several conditions of the operation of either the brake or the determination of the oil, by slippage of the rollers of the actuating worm of the brake.

For most expeditious correction of this problem, the entire load brake reducer, less motor and pinion, be returned to our plant for inspection.

As this particular load brake reducer is not incorporated in our equipment and it may suggest the procurement of an additional unit, present is available for immediate shipment.

*Handwritten notes:*  
# 400-00  
The lead  
metal

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If this arrangement should prove of interest to you, the new unit could be installed on the subject crane, permitting return, repair and reshipment of the faulty reducer without impairment of operation of the crane.

We shall appreciate your further comment on the above.

Yours very truly,

CRANE HOIST ENGINEERING CORP.

*C. M. Mason*

C. M. Mason  
President

CM/mcj