



DEPARTMENT OF TRADE AND COMMERCE
STANDARDS BRANCH

S. JA-583
Revision #1

OTTAWA December 6, 1966.

APPROVED TRANS-WEIGH BELT CONVEYOR SCALE MODEL 604 - CAPACITY 3500 L.T.P.H.

manufactured by: Trans-Weigh Division of Compudyne Corporation,
Hatboro, Pennsylvania, U.S.A.

Apparatus Listed: Belt Conveyor Scale Model 604. Peak capacity 3500 long tons per hour. Normal operating load 2400 to 2800 long tons per hour.

Application: Bulk weighing of iron ore pellets or other bulk materials of equivalent value.

Special Conditions:

1. Inspection tolerance .5%. If error at the time of test exceeds .2%, both Canadian Pacific Railway and the International Nickel Co. are to be notified in writing.
2. The scale is to be operated in the range 2400 to 2800 L.T.P.H.
3. The scale is to bear a permanently affixed and prominently located plate bearing the words "Restricted - Trade & Commerce" or "Restricted - T. & C".
4. Approval is limited to one scale, Model 604, Serial No. C641102751 installed at the Canadian Pacific Railway, Turner Coal Docks, Little Current, Ontario. In the event of other installations being planned, it is required that the Standards Branch, Ottawa, Canada, be notified in each case in order to ensure in advance of the installation that all approval requirements will be met.

Description: This device is a belt conveyor scale system consisting of a weigh carriage which has four idlers supported on a channel framework. This framework is supported at four points so it will not twist or deflect from off-center loads. The idler frame rests on two separate inner A frames which transmit the force to a strain gauge load cell. The integrator mechanism and totalizer are housed in a steel cabinet. The load cell is temperature compensated and is used in compression. It consists basically of a calibrated steel column with strain gauges bonded to the column and connected electrically in the form of a wheatstone bridge.

Testing: Testing will be by product discharge into a moving train, with deflector shields between cars. Individual cars are to be weighed subsequently on a calibrated track scale. The conveyor scale is also to be checked with roller chain and a factor calculated for the chain relative to the product discharge calibration so that it may be used for periodic scale checks throughout the loading season.

Reference: SW-35-T19
SL-102-680A

Note: Approval is granted under the Weights and Measures Act, Chapter 292, and Regulations thereunder (P.C. 6894) for use in Canada under the general conditions of P.C. 6894, and under any special conditions listed above.

J. L. Armstrong
J. L. Armstrong,
Chief, Weights and Measures Division,
Standards Branch.

R. W. MacLean
R. W. MacLean,
Director,
Standards Branch.

TRANS-WEIGH BELT-METERS CONVEYOR SCALE MODEL 604 CAPACITY 3500 L.T.P.H.

