State of California
Department of Food and Agriculture
Division of Measurement Standards

Certificate Number: 5300-02

California Type Evaluation Program
Certificate of Approval
for Measuring Devices

For:

Wholesale Meter Controller System
Digital Electronic

Model: Load Logix System

Submitted by:

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Standard Features and Options

System Description:

OIT Scale - Operator Interface Terminal for scale
OIT Rack - Operator Interface Terminal for load out rack
PLC Controller - Allen Bradley Program Logic Controller and sealable housing
PC HMI - Personal Computer with Load Logix Software Version 1.6 or higher

Minimum System Requirements:

Windows Operating System NT or 2000
Pentium Processer, 256 MB RAM
Program Language: SQL and C++
17" Computer Monitor
Printer

This device was evaluated under the California Type Evaluation Program (CTEP) and was found to comply with the applicable technical requirements of California Code of Regulations for "Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

Effective Date: March 29, 2002

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Mike Cleary, Director

Meter Maintenance & Controls, Inc.
Wholesale Meter Controller System
Model: Load Logix System

Application: For use as an automated loading terminal system consisting of an approved mass flow meter system, an approved vehicle scale, and the approved Load Logix System controller software.

Identification: All components have a permanent plastic ID plate attached to the front.

Sealing: The Model 1747-L551 Allen Bradley Controller is installed in a metal cabinet. A hole is drilled through the cabinet door and housing to allow a wire security seal to be applied. The approved mass flow meter and weighing system components are sealed according to their certificate requirements. The certificate numbers are listed below in "Test Conditions".

Operation: The tank truck driver parks on the approved vehicle scale. The driver exits the cab and enters an order number into the OIT (Operator Interface Terminal). The tare weight is automatically captured into the system. The driver then drives to the OIT rack and can accept or change the recommended meter delivery. The driver must also designate if the delivery is single or multiple compartment. The OIT rack entry cannot exceed a vehicle gross of 80 000 lbs. The delivery is activated and the approved mass flow meter system delivers the correct preset net amount to the receiving vessel. A weighmaster certificate is printed with tare, gross, and net weights and other pertinent information.

Test Conditions: The Load Logix System was installed at a loading terminal. The components tested during this evaluation were the OIT for the scale; OIT for the load out rack; PLC controller; and PC HMI with Load Logix Software Version 1.6, Windows 2000 operating system, a 17" computer monitor, and Hewlett Packard printer. The system was tested for accuracy, identification, sealing, and agreement of indications and recorded representations. A Fairbanks Model 90-9201 scale [Certificate of Approval Number 3961(a)-93] was tested for accuracy. A Model CMF Micro Motion mass flow meter (Certificate of Approval Number 4206-95) was verified against the vehicle scale. Several full and partial loads were verified for accuracy. The system was put into service for 40 days and the same tests were repeated.

Results of the evaluation indicate the system complies with applicable requirements.

Type Evaluation Criteria Used: Title 4, California Code of Regulations, 2002 Edition

Tested By: Dan Reiswig (CA), Paul Jordan (CA), Matt Maiten (Ventura County)