RE CODE

STANDATA

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Electronic Liquid Measurement

SUE:

Impany owned fuel-dispensing stations are automating and centralizing their fuel inventory cords. This means that a company retail service station operator would no longer complete d maintain an on-site fuel inventory dip book.

e Alberta Fire Code (AFC) establishes criteria for storage tank owners to perform tests, easurements and reconciliation calculations to determine if any portion of their storage tank stem is leaking.

e AFC also requires that records be kept and made available to the authority having isdiction (AHJ) for a period of at least 2-years. The AHJ will continue to have the ability to ask weekly or daily dip records by contacting the company directly and having records delivered actionically in 72 hours or less.

CKGROUND:

automatic tank gauge system (ATG) is an electronic measurement device installed in fuel prage tanks. ATG's measure fuel level input and throughput and perform reconciliation tomatically and hourly. ATG systems can also measure water levels at the bottom of tanks determining ingress leaks.

Impanies are able to centrally collect data from the ATG's and accurately monitor the liquid rels as if the retail operator was performing the tasks manually. Companies using ATG stems must be aware of the limitations of their systems and not all ATG's are certified as a scision leak detection system.

is bulletin is intended to address only those ATG systems that are considered a replacement manual dip testing, inventory control reconciliation and record keeping.

DE REQUIREMENT: 1

I.4. Leak Detection Monitoring of Storage Tanks and Piping Systems I.4.1. Inventory Reconciliation

Where inventory reconciliation is required by this Section, the liquid level in any *storage tank* all be measured at intervals not greater than 7 days in conformance with Sentences (2) to (4), cept that at *fuel-dispensing stations* the measurements shall be taken each day the station is operation.

Il references are to the Alberta Fire Code, Division B, unless otherwise stated



Issue of this STANDATA is authorized by the Chief Fire Administrator



[Original Signed] Raymond Ligenza

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<u>STANDATA</u>

The level of water at the bottom of an underground *storage tank* shall be measured at ervals not greater than 7 days, except that at *fuel-dispensing stations* the measurements shall taken each day the station is in operation.

A comparison of the measurements described in Sentences (1) and (2) with meter readings d a computation of any gain or loss of liquid shall be done each time a required measurement taken.

A record of the measurements for each *storage tank* and of the computations described in intence (3) shall be retained, in conformance with Article 2.2.1.2. of Division C.

When required by the *authority having jurisdiction* the record referred to in Sentence (4) shall the subject of an audit performed in a manner acceptable to the *authority having jurisdiction*.

2.1.2. Records (AFC, Division C)

Where this Code requires that plans be provided, or that tests, inspections, maintenance or erational procedures be performed, records shall be made and the original or a copy shall be ained at the premises for examination by the *authority having jurisdiction*.

The initial verification or test reports for each system shall be retained throughout the life of systems.

Records of tests, inspections, maintenance or operational procedures undertaken after the tial tests referred to in Sentence (2) shall be retained so that at least the current and the mediately preceding records are available.

Notwithstanding the conditions stated in Sentence (3), no record shall be destroyed within b years of being prepared.

TENT:

Impanies that use a centralized ATG system as an automatic fuel inventory dip book with conciliation and water level measurement capabilities, meet the intent of Subsection 4.4.4. for uid level measurements and Article 2.2.1.2. (Division C) regarding maintenance of records.

el-dispensing stations utilizing the ATG system are required to provide the AHJ contact ormation for obtaining liquid level records when requested.

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