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June 17, 2019  
File: SR 2578940

VIA EMAIL

DAFEI FENG  
TOYOTA MOTOR MANUFACTURING CANADA INC  
1055 FOUNTAIN ST N PO BOX 5002  
CAMBRIDGE ON N3H 5K2  
[dafei.feng@toyota.com](mailto:dafei.feng@toyota.com)

Dear DAFEI FENG,

**Re: Application for a Variance from Clause 6.1.1.13 of the Liquid Fuels Handling Code, Technical Standards & Safety Act R.S.O. 2000 for 1055 FOUNTAIN ST N CAMBRIDGE (North Plant)**

TMMC-N Assy currently has a variance (SR 2456984, Jan 23, 2018) for dispensing gasoline indoors to vehicles at the end of Final 2 Assembly Line. Due to the needs of repair, TMMC-N would like to also establish an off-line filling area at the Major Repair Area.

In support of their request, Toyota has provided the following information:

#### **1. Fuel Dispensing System**

The Fuel Dispensing system in the Off-Line gas fill area is a ULC/ORD-C142.13 mobile fueling tank mounted on a cart. The tank capacity is 225L and is secured to the cart via 4 hex bolts through brackets welded to the tank. The tank is grounded (through a bond wire) to one of the building columns. The nozzle is a commercial gasoline nozzle which requires the operator to press and hold manually to release the gasoline. The dispensing pump is powered by the plant compressed air. The compressed air can only be supplied to the pump when the ventilation fan has been activated manually by the operator. The compressed air shuts off automatically when the LEL reaches 40%.

All electrical components used on the Mobile Fuel system have CSA, ULc or FM approval.

All Mechanical components used are either approved for using with Gasoline or Compatible for use with Gasoline.

All hoses used on the equipment for gasoline are rated for use on gasoline and have ULc approval. (CRN available)

All the above-mentioned components are available for sale and use in Canada.

#### **2. Ventilation per Ontario Fire Code Sec. 4.1.7**

Ventilation performance is 197 m<sup>3</sup>/m<sup>2</sup>/hr (well in excess of the OFC requirement of 18m<sup>3</sup>/m<sup>2</sup>/hr).

Ventilation system is interlocked. Fuel dispensing **cannot** occur without ventilation system operating. Air flow proven by air flow switch in duct and fan interlock on the Fire Alarm Control Panel.

Ventilation ducts are located at four corners of the fuel fill station at floor level. The exhaust plenum intakes are 280mm above finish floor.

The outdoor exhaust air outlet is located more than 3 m from any building opening. Exhaust air to atmosphere is more than 7.5 m from point of discharge to any unprotected openings.

Exhaust ducts are used exclusively for ventilation of fuel dispensing station.

### 3. Spill Containment

Spill containment procedure is regulated under TMMC Environmental Spill Incident Procedure.

Spill kit (Can-Ross Model #SK-OTRK as provided by Acklands Grainger) is located at North end of fuel fill station.

A spill containment kit is located inside the sheet metal vapor barrier as shown on drawing DQ4-001. The kit includes Hazmat absorbent socks to be placed across the west opening of the station to contain fuel in the event of a spill.

### 4. Fire Suppression System

The overhead fire protection system has a design density of 0.30 GPM/Sq Ft. Two fire extinguishers rated at 40-BC will be placed inside the fueling station at opposite sides.

### 5. Training of Personnel

Operators are trained and records kept. Training records are available upon request.

Please be advised that your variance application dated May 10, 2019, has been approved.

**Please be advised that this variance will not take effect until 15 days from the date of posting the decision on the environmental registry. This decision of the Director is subject to a right of appeal, under the Environmental Bill of Rights, if such an appeal is filed within 15 days from date of posting. In the event an appeal is filed, this decision of the director may be subsequently stayed, disallowed or significantly altered. Notice of an appeal will be placed on the Environmental Bill of Rights registry.**

This variance is allowed under the authority of subsection 36.(3)(c) of the *Technical Standards and Safety Act, 2000*, (the "Act") and subject to such conditions as may be specified herein, being that:

- Non-conformity with the conditions specified shall thereby cause the allowed variance to become null and void;
- The applicant accepts full responsibility for any and all damages resulting from the use of the thing to which the variance applies. The applicant further accepts full responsibility for any impacts to the health and safety of any person in consequence of the allowance of the variance or of non-conformity with the conditions specified. The Technical Standards and Safety Authority accepts no responsibility for any such damages or impacts;
- In the event of any claims against the Technical Standards and Safety Authority arising from allowance of the variance or non-conformity with the conditions specified, the applicant agrees to indemnify the Technical Standards and Safety Authority and agrees to hold it harmless from such claims and attendant costs;
- The variance process is subject to public access under the TSSA Access and Privacy Code (available upon request). The fact that a variance has been granted, and information about any public conditions, such as a requirement to post a sign, may be released on request. Subject to law and the TSSA Access and Privacy Code, proprietary information will not be subject to release;
- The applicant shall pay the fee associated with the review of the variance; and
- A copy of the variance letter shall always be kept readily available and permanently legible in the vicinity of the appliance/equipment.

This variance only relates to the Act and regulations made thereunder and does not exempt you from compliance with other applicable regulatory requirements. The installation will be subject to an inspection to ensure compliance with the terms of the variance. Please contact Charlie Landriault at 519-871-5827 to arrange for the inspection.

Should you have any questions or require further assistance, please contact Ann-Marie Barker at 416.734.3354, or by e-mail at [abarker@tssa.org](mailto:abarker@tssa.org). When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

A handwritten signature in blue ink that reads "John R. Marshall". The signature is fluid and cursive, with the first name "John" being the most prominent.

John R. Marshall  
Director, Fuels Safety Program

c. Charlie Landriault, TSSA, [clandriault@tssa.org](mailto:clandriault@tssa.org)