2.4 FUEL MANAGEMENT SYSTEM

A. Provide a fuel management system to allow 24-hour self-service fueling of the Jet-A fuel and Avgas systems. The fuel management system shall include one credit card terminal to be located as shown on the Contract Drawings, and software that is web based and accessible from any computer or device with an internet or cellular connection. The system shall include the following features:

1. Fuel Terminal (i.e., credit card reader):
	1. Operation: Configure the system as follows:
2. Prompt the operator to confirm that appropriate bonding is complete between the fueling system and the aircraft.
3. Prompt the operator to enter the aircraft tail number.
	1. Operating instructions: Provide clearly visible operating instructions. Instructions must have the ability to indicate the locations of the emergency shut-off devices.
	2. Processor: Intel Atom Processor with 4GB RAM and 120 GB Memory via SSD. Communications to Card networks and to fuel management software via either wired ethernet, Wi-Fi or cellular connectivity.
	3. Display – 7” full color display with 1000 nit brightness, anti-glare, anti-reflective coating and light sensor for dimming functionality in lower light conditions.
	4. Card reader: Insert style fully encrypting card reader that creates a unique encryption key for each card swipe.
	5. Thermal receipt printer (60 mm) with option for low paper warning.
	6. Construction: Stainless Steel with powder coat finish.
	7. Keypad: Backlit, capacitive touch keypads.
	8. Dimensions: Terminal Width: 20 “, Depth: 9.5”, Height: 67”
	9. Power requirements: 110 VAC, 60 Hz, 200 watts.
	10. Operating temperatures: Negative 40 to 130 degrees F.
	11. Hose controls: Up to 8 hose control points with the ability to expand to 64.
	12. Pulser compatibility: 1:1 to 1000:1.
	13. Pump control relays: Include as required.
	14. Encryption of card data: The system shall fully encrypt bank card track data upon swipe utilizing 3DES and DUKPT encryption. This card data shall not be stored on the self-serve device during normal operation in order to prevent against any breach or compromise of card holder data.
	15. In the event that communications are lost, transaction data may be temporarily stored until connection is restored, at which point all transactions will push to the cloud based application and then to the card processor.
	16. Manufacturer: QT Petroleum on Demand (QT POD), model M4000 Pro (phone 303-444-3590).
4. High Visibility Display:
	1. Construction: Aluminum case with powder coated finish.
	2. Dimensions: 20” high x 16” wide x 4” deep.
	3. Operating temperatures: Negative 30 to 130 degrees F.
	4. Display: Solid state 2.3” bright red bar segment LED digits.
	5. Mounting location: Top of dispensing cabinet.
	6. Manufacturer: QT Petroleum on Demand (QT POD), model MultiDisplay™ (phone 303-444-3590).
5. Fuel Management Software:
	1. Provide a subscription based, uel management web application that is accessible from any computer or device with an internet or cellular connection to set prices, manage private accounts, perform unit configuration, monitor inventory and view transaction data. .
	2. At a minimum, the software shall be capable of the following tasks:

a. Account management

b. Invoicing

c. Basic discounting

d. Fuel type blocking

e. Access schedules

f. Remote retrieve sales

g. Purchases

h. Sales activity

i. Sales summary

j. Transaction detail log

* 1. Manufacturer: QT Petroleum on Demand (QT POD), modelSiteminder (phone 303-444-3590).