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Gasboy Recommendations for New Site Construction (DLA)

All Local Codes and NFPA should be followed and used as a primary guide.

1. Please provide an *Installation and Setup Manual*, especially with the wiring for communications and power.
Gasboy Islander PRIME Installation Manual (MDE-5411B) provides basics for installation and wiring of the Gasboy EPoS Pedestal. Additional information relevant to DLA installations listed below.
 - a. *Separate High & low voltage conduit from each dispenser (for each pedestal on each island).*
 - Conduit requirement**
 - Underground Tanks**
 - i. *Stubbed out at least 18 inches high, preferred to be 33 inches.*
 - ii. *With a seal off needs to be at 18 inches on each.*
 - Above Ground Tanks/ Above Ground Conduit from Pumps**
 - i. *Conduits may penetrate the base below 25 inches from the bottom of the base on the side or back of the base.*
 - ii. *Conduits should be no less than two inches apart.*
 - iii. *Conduits should span no more than 9 inches side to side or front to back.*
 - b. *Low voltage (18 gauge shielded Belden four conductor)*
 - i. *Tied into the pulser wires*
 - c. *High voltage (12 gauge stranded wire)*
 - i. *One wire for handle signal 120v*
 - ii. *One wire for valve control 120v*
 - d. *Dedicated 20A breaker on the same electrical phase as the dispenser(s)*
 - e. *Hot ground & neutral to each pedestal from breaker for pedestal power (12gauge stranded)*
 - f. *Pedestals can be on same breaker*
 - i. *If separate control is desired separate breakers would be necessary (would still need to be 20A)*
2. Please provide drawing or templates showing us the dimensions of the opening in the islands that we need to have for the Fixed Device pedestals.
 - a. *Conduit would generally come up from the bottom of the base.*
 - b. *Size of the base plate 11.5 inches wide by 10 inches deep. This is the size of the base, but conduits should fit into an 8 in x 8 in square to avoid having to modify the base plate.*
 - c. *We would need the drawing/schematics to better assist for the project(s).*

3. Please provide the requirements for the conduit that needs to be roughed-in to each of the Fixed Devices, especially if any needs to be rigid.
 - a. *See Question #1 above.*
 - b. *Rigid is required to the 33-inch barrier in the pedestal.*
4. What wiring is needed to be pulled by/between each Fixed Device and the Control Building – power only or also a communication line for Remote Service?
 - a. *See Question #1 above.*
5. Do the Fixed Devices need to be connected across islands to each other like FuelMaster Satellites to the Master pedestal, or are all independent?
 - a. *These are all independent to each other. No communications wires are run between pedestals.*
6. Since communications is cellular, can a Fixed Device unit on a retail diesel island also control a dispenser/hose on another fuel island, such as a gasoline dispenser on the next island, or must these other dispensers be hard-wired across to the Fixed Device?
 - a. *Yes, if the dispenser/pump wiring is run to the desired pedestal location.*
 - i. *Needed wiring is listed above in Question #1.*
7. For bulk fuel issues, will we also need a Fixed Device Pedestal in the bulk-issue area connected to a Liquid Controls MA-Series bulk meters w/pulsers?
 - a. *Please refer to DLA-Energy for more guidance on this setup*
 - b. *This capability does exist currently on-site*
8. As long as a dispenser is ordered with a pulse output feature, it should be compatible with the Gasboy Islander Prime. GB has no way of telling whether a particular model of dispenser has a pulse output available.
 - a. *We would recommend consulting with the dispenser distributor making the sale to confirm that is true.*

The above is not a substitute for the installation manual for the Gasboy Islander Prime but is intended to provide some general guidelines regarding questions that have come up regarding construction of new government (DLA) fuel sites.