

1.3.2019

1) I do not see qtys or sizes of meters and or Meter box/Lid in proposal or on excel sheet provided. Can you please send this information over for accurate RFP response?

The number of meters is listed in Attachment K. The size of the meters is not listed.

2) It was my understanding Florence signed with Milandr to have a LPWAN put up over Florence and that we would be offering our meters and Radios to communicate to this network, but the RFP seems to ask for us to provide the network and hang collectors. Can you please verify which option we are to proceed with?

All proposals should include providing the network and hanging collectors if they have the capability. If the proposing vendor chooses to use a third party for the network and collectors (such as Milandr), or can do both, then they should include that in their proposal.

3) Can you provide address for your entire well / tank locations? We need that information for potential antenna sites. We could also use address of locations that the town is okay with antenna placements.

The following are the only well site locations that are suitable for gateways.

Site Name	Description	Coordinates
Florence Tower/Well 1 Booster	180FT Communications Tower, power, PoE, generator, battery backup, Network.	-111.384645,33.0757258,0
Well 5/Water Tower	100ft Water Tower, power, battery backup, Network.	-111.3884336,33.0267221,0
Anthem Tower	180FT Communications Tower, power, PoE, generator, battery backup, Network.	-111.4840288,33.050237,0
Town Hall	30+FT Power, PoE, generator, battery backup, Network.	-111.3873553,33.0389829,0
Well 3B	20FT Power, PoE, generator, battery backup, Network.	-111.3829646,33.0352717,0
Police Department/Datacenter	20FT Power, PoE, generator, battery backup, Network.	-111.3856213,33.0356911,0
Waste Water South Plant	20FT Power, PoE, generator, battery backup, Network.	-111.4060812,33.0301785,0
Cemetery	Currently no connectivity or power. Possible future site.	-111.3844907,33.0038589,0

4) As we prepare our response to the town's RFP, we need to perform propagation study. The RFP lists the sites available for collectors, but the following sites do not have the available height above ground level, listed. Can you provide this information? The available height above ground level is necessary for us to provide accurate results. Town Hall, Well 3 WT, Police Department, WW South Plant

See Questions 3.

5) 5.1.8 Battery life data shall be transmitted to the Host System alerting of low battery levels for preemptive maintenance

- Is alert of low battery life adequate, or do you need to have an indication of battery condition?

The minimum expectation is low battery level alert.

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6) 5.1.9 Each AMI Module shall allow for an engineered LoRaWAN Network configuration with a primary route to the collector and multiple alternate routes that can be re-routed if communication is interrupted to the primary routing.

- Not quite applicable in case of LoRaWAN technology. All data packets will always be received by all base stations within its reception area

Gateways running in ACTIVE/ACTIVE or ACTIVE/PASSIVE is acceptable.

7) 5.1.11 The AMI Module shall be capable of storing meter data including date and time stamps down to 15-minute intervals for a minimum of 45 days in non-volatile memory. If there is a system failure, the system shall recover and update itself without loss of information.

5.1.13 Systems that communicate one and a half way to the collector or update to the collector 1 to 6 times a day in multi-hour intervals are not acceptable.

- Not clear how many times per day and how often the data should be transmitted? Is it being contemplated by the town to request archived data in some situations? If not, there's really no need to archive data at 15 min intervals. Plus, 15 min intervals will seriously eat into the battery life.

The minimum expectation is hourly.

8) 5.1.18 Ability to use a hand-held device to upload data in the unit's memory.

- Need clarification – what data and for what purpose?

The purpose is to guarantee that meter data can be collected by another method if the LoRaWAN is not available.

9) 5.2.1.6 The Data Collectors shall use RC4 state-of-art data security techniques to prevent unauthorized access to the data.

- RC4 security technology is not applicable to a LoRaWAN technology; besides, LoRaWAN base stations do not collect or keep data but pass it through

Any type of current 128-bit or greater encryption/validity checking is acceptable.

10) In reviewing the RFP for the AMI Project, I was wondering if it would be possible to get a list of the 3" and larger meters.

The data is not available currently.

11) What is the meter count to be replaced?

The meter count is included in Attachment K.

12) Meters to be retrofit?

The meter count is included in Attachment K.