



AMI – Lessons Learned

April 7, 2021



Overview

Insights from each major phase/area

- Pre-project activities
- Proposal considerations
- Contract provisions
- In-Project activities

Pre-Project Activities

- **Condition Assessment**
 - “Pit environment” offers multiple variables
 - Survey of meter/pit conditions – more accurate proposals
 - Meter Reading contract – critical asset
- **Retrofit/Exchange Analysis**
 - Meter population, warranty, age
 - Retrofit Pro: Ease/speed of installation, lower install costs
 - Exchange Pro: Uniformity of meter population
 - Cons: Higher install costs, mass replacement cycle
 - Retrofit/Exchange Combo:
 - Complex inventory, inventory management, Q/A and Q/C of installs

Proposal Considerations

- **Project Operation Space**
 - **Owner**
 - Procurement, Inventory, Disposal
 - Separate from ongoing operations
 - Joint operations space facilitates installation activities
 - **Contractor**
 - Inventory, Disposal
 - Known space aids in planning/estimating
- **Return to Utility, “RTU”**
 - **Pricing – Owner/Contractor installation activities**

Contract

- **Contract type**
 - Bid – all materials, labor, for installation
 - Service – installation, owner supplies materials
- **Provisions to consider**
 - Bids – Performance bond, liquidated damages
 - Service – Termination clauses
- **Avoid conflicting intentions, outcomes**

In-Project Activities

- **Return to Utility – RTU's**
 - **Owner/Contractor relationship**
 - Hard to install situations – “pit environment”
 - **Identify basics of RTU situations**
 - Common understanding
 - **Project planning**
 - Contractor: Types of equipment to stock in-truck
 - Owner: Options to perform work in-house

Summary

- **Utility service areas are unique**
 - **Regardless of similarities with other utilities**
- **Careful planning can help**
 - **Pre-project information gathering**
 - **RFP development**
 - **Contract negotiation**
 - **Project management**



Long Beach Water

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