



Alternative Capacity Power Generation



Council Presentation
May 12, 2015



Alternative Capacity Requirement (ACR) Plan - TCEQ



- Texas Administrative Code (30 TAC) requirement : 100 gal/connection for water system;
- Currently 24 gal/connection for City;
- ACR Plan approved by TCEQ (2012) : 50 gal/connection; 4 phases of construction in 9 years.
 - Phase 1: Emergency power generators:\$2,749,572 (**This project**)
 - Phase 2: Design and construct ESTs at Holly RD and Rand Morgan St.:\$10,959,500
 - Phase 3: Design and construct the third EST at Nueces Bay Blvd.:\$7,572,500
 - Phase 4: Design and construct the fourth EST at Starry RD.: \$4,997,500
 - Total Program Cost: \$26,276,072

ACR Implementation Plan		12- 13	13- 14	14- 15	15- 16	16- 17	17- 18	18- 19	19- 20	20-21
Phase 1	Navigation and Statples Generators	Design	Construction							
Phase 2	Holly RD and Rand Morgan ESTs		Land Acquisition	Design	Construction					
Phase 3	Nueces Bay Blvd. EST				Land Acquisition	Design	Construction			
Phase 4	Starry RD EST							Design	Construction	



Project Scope and Location



- Design two diesel power generators:
 - ✓ Staples Street: 350 kw
 - ✓ Navigation Street: 400 kw
- SCADA services for Navigation Pump Stations





Project Schedule



2015							2016									
J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O
Design							Bid & Award			Construction						

Project Estimate: ≈ 17 Months

Projected Schedule reflects City Council award in May 2015 with anticipated construction completion in October 2016.



Project Budget



FUNDS AVAILABLE:

Water CIP..... \$3,790,600

FUNDS REQUIRED:

Construction Estimate including 10% contingencies (TBD)..... \$848,320

Engineer Fees:

Engineer for Study (Bath Engineering)..... \$32,500

Engineer for Design THIS CONTRACT (Bath Engineering)..... \$90,955

Geotechnical Investigation Estimate (Rock Engineering)..... \$5,000

Materials Testing Estimate (Rock Engineering).(Estimate)..... \$5,000

Construction Observation (In House) Estimate (2.5%)..... \$21,200

Reimbursements:

Administration/Finance (Capital Programs/Capital Budget/Finance) (2%)..... \$16,966

Engineering Services (Project Mgmt/Construction Mgmt) (2.25%)..... \$19,087

Misc..... \$2,000

TOTAL..... \$1,041,028

PROJECT BUDGET BALANCE..... \$2,749,572