DME Capital Improvement Program Update

City Council December 8, 2015







Executive Summary

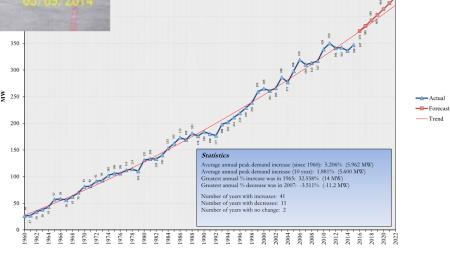
• Problem:

- Growth and Aging Infrastructure
- DME has a responsibility to respond
- Capital Improvement Plan

 Includes Public Involvement Process
- Consider all practical options



DME Peak Loads and Trend, 1960 to 2020 (2.6% Forecast)



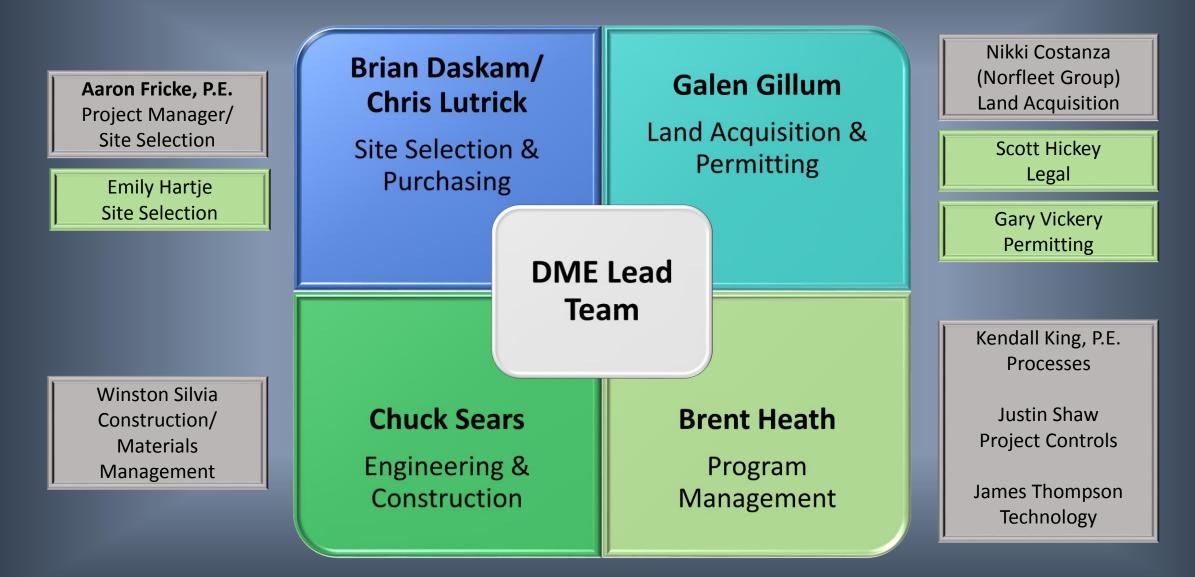
Major Accomplishments -Project Management Processes and Tools

- Documented 21 DME/COD project execution processes
- 77 Individual project and program level schedules developed
- GIS Web Portal mapping and management tool
- e-Builder program management platform
- Tracking/reporting tools for projects, purchasing and contract management developed
- Executive Level Dashboard developed



"We have to change the tire on this car while it's moving..." John Moore 3

CIP Leadership Team



Swim Lane Diagrams

	<u>CTRIC</u> 6-1	evision 6 17-2014
Site &	Route Selection Process	
TNP	Develop Civil Aspects of Site/ Route Options	TNP
Power Eng	Select Develop Select Site/ Develop Select Site/ Presentation Preliminary Constraints Map Options Develop Presentation Study Area Map Options Options OH	Power Eng
DME	Select General Area for Substation or Transmission Line Develop Electricine Network Presentation Route Options Internal Oceanity Note Option Al3 Prep and Area for Option Provide Contact Review Nottry City Council and Contact Letter Open Council and Contact Letter Open House Open House Open House Open House Open House Open House Open House House House	DME
FNI (ROW)	Research Real Estate Aspects d Site/Route Open of Site/Route Options	FNI (ROW)
BUB	PUB (Closed Session)	PUB
City Council		City Council
TNP		N P
Power Eng	Record and Evaluate Modify Site and Route Options Prepare Routing Analysis and Environmental Input Revise Evaluation Matrix for Primary Environmental Assessment Report Revise Evaluation Matrix for Primary Route Options	Power Eng
DME	Review and Pinal Rank Options PUB Caption and Presentation Review PUB AIS Prep and Review CC AIS Prep and Review Notify Public of Approved Site or Route	DME
FNI (ROW)	Followup Landowner Contact	(ROW)
PUB	PUB (Closed Session) PUB Hearing Recommendation	PUB
City Council	Council Public Hearing Site/Route	City Council

Swim Lane Diagrams



Site & Route Selection Process Develop Civil TNP Aspects of Site/ Route Options Power Evaluation Develop Select Site/ Eng Select Develop Matrix of Site/ Presentation Constraints Preliminary Route Route Materials for Study Area Map Options Options OH Internal Select General Review Develop Schedule AIS Prep DME Area for Presentation Electrical Open House and Materials for Substation or Aspects of Site/ and Meeting Review ОН Transmission Line Route Options Space FNI (ROW) Research Real Estate Aspects of Site/Route Options PUB City Council

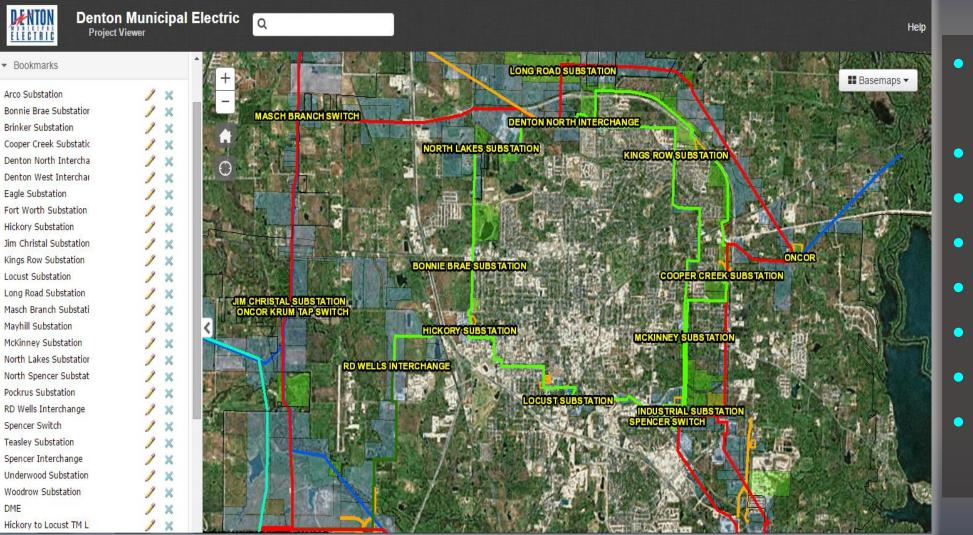
Individual Project Schedules

ID	fask Name		Duration	Start	Finish	2012				2013			2014			2015				2016
520	da Raw Ochsta Han		0.42	5-1 4/07/40	Thu: 40/47/45	Q1	Q2	Q3	Q4	Q1	Q2	Q3 Q4	Q1	Q2 (Q3 Q4	Q1	Q2	Q3	Q4	Q1
	Gings Row Substation		943 days	Fri 4/27/12	Thu 12/17/15											-				
521	Land Acquisition		621 days	Fri 4/27/12	Mon 9/15/14			1				1						· ·		
522	Design		60 days	Mon 8/4/14	Mon 10/27/14							1		4						
523	Permitting		517 days	Wed 10/3/12	Fri 9/26/14										_		1	· ·		
532	Construction		322 days	Tue 9/16/14	Thu 12/17/15			1			, i	1		1	-					
533	Plug and Abandon existing water well (per	Geotech)	2 days	Mon 11/10/14	Tue 11/11/14										- h			· · ·		
534	Driller to submit Plugging report to John Gl	over w/Pretreatment)	0 days	Tue 11/11/14	Tue 11/11/14						··			i i		11/11		· · ·		
535	Mann Robinson Initial Site Preparation		40 days	Wed 11/12/14	Fri 1/9/15			1			· · ·	I		1		-	1	· ·		
536	Can-for - West Retaining Wall		20 days	Mon 1/12/15	Mon 2/9/15											t 🖕	<u>.</u>			
537	Mann Robinson Final Site Preparation		10 days	Tue 2/10/15	Mon 2/23/15									1		Ť	1	· · ·		
538	Can-Fer Construction		160 days	Tue 2/24/15	Tue 10/6/15			1				I		l					h	
539	Mann Robinson Substation Surface Rock		15 days	Wed 10/7/15	Tue 10/27/15			1				1					1		4	
540	DME		50 days	Wed 7/1/15	Tue 9/8/15												1			
546	EPS Meter Installation & Certification		112 days	Mon 6/15/15	Wed 11/18/15							1		1				÷ i		
552	ERCOT NMMS Model Submission and Test	ing Period	125 days	Wed 6/10/15	Wed 12/2/15			1				ı I					1 0	.))		
558	DME Distribution		90 days	Tue 9/16/14	Fri 1/23/15										*	-	:			
562	G2 - Commissioning		170 days	Wed 4/22/15	Thu 12/17/15															
563	Switchgear Building #1 Pre-Move Check	out	45 days	Wed 4/22/15	Wed 6/24/15			1				1		1				ų (
564	Switchgear Building #2 Pre-Move Check	out	45 days	Thu 6/25/15	Wed 8/26/15							1						ten i		
565	Switchgear Building #1 Final Checkout		30 days	Thu 6/25/15	Wed 8/5/15						·	1						* }		
566	Switchgear Building #2 Final Checkout		30 days	Thu 8/27/15	Wed 10/7/15			1				1					1	: 📫	1	
567	Circuit Breaker CT Testing		10 days	Thu 8/27/15	Wed 9/9/15			1				1					1	i ti		
568	Transformer CT Testing		10 days	Thu 9/10/15	Wed 9/23/15													÷ Š		
569	Control Building Relay Testing		5 days	Thu 9/24/15	Wed 9/30/15			1				1		1	1		1	1		
570	CT Cable Current Injection Testing		10 days	Thu 10/1/15	Wed 10/14/15							r I		1	1		1	1	x	
571	PT Cable Voltage Injection		5 days	Thu 10/15/15	Wed 10/21/15									1		-		· · ·	4	
572	Final Functional Testing		20 days	Thu 10/22/15	Wed 11/18/15						·			1				· · ·	μ.	
573	Energize Substation		0 days	Wed 11/18/15	Wed 11/18/15							r I		1	1	1	1		¢ 11	/18
574	Landscaping		21 days	Wed 11/18/15	Thu 12/17/15									1					1	
	Task		Project Summary		Inactive Milesto	ne	\$		м	Ianual Su	ummary	Rollup		Deadlin	ne '	· .	•			
Projec	t: DME CIP Overall Schedule Split		External Tasks		Inactive Summa	iry	Ţ			lanual Su		, –		Progre	55					
	Tue 10/27/15 Milestone	ب	External Milestone		Manual Task		c		St St	art-only		E								
	Summary		Inactive Task		Duration-only				E Fi	nish-onl	y	э								

Overall Program Schedule

												CIP S	chedul	e - 10/	8/15																	
ID Task Name		Start	Finish	% Complete	Qtr 3	2012 Qtr.4 Qtr.1	Otr 2	00r3 0	201 2tr 4 0	13 26r 1 08r 2	2 Otr 3	Qtr 4	2014 Qtr 1 0	tr 2 Otr	r 3 Otr 4	2015 Otr 1 Otr	r 2 Dtr 3	201 0tr 4 0	6 tr 1 0tr 2	Qtr 3 Qt	2017 tr 4 Otr 1	Qtr 2 Qtr	s Otr 4	2018 Qtr 1	atr 2 at	r3 00:4	2019 Otr 1	Qtr Z Q	tr3 Otr4	2020 Otr 1	Qtr 2	Qtr 3
345 Teasley to Pockrus TH Line (TMPA Re-build) 190 Pockrus Phase I & II (Station Upgrade)		4on 12/9/13 Nu 3/13/14	Non 6/29/15 Fri 8/28/15	100%			1					-	-																			-
180 Potkras Phase I & II (Station Upgrade) 50 Woodrow Substation Phase I (Upgrade)	377 days 1 332 days? P		Pri 8/28/15 Hot 9/28/15	100%			-			-	-			_	1		-		-	+ +			+ + +	-		-			-			++
122 McKinney to Cooper Creek TM Line (Purple Phase II)		Hi 9/28/12	Fri 10/9/15	90%	1.1		1	_		_	_	_	_	_					_	1 1												1.1
			Tue 10/20/15	0%		-										-	_				1											
1 Hokinney Substation 1655 TMPA West Denton Switch Replacement			PH 10/30/15 Tes 11/3/15	97%							_																_			_	L	
154 Woodrow to McKinney TM Line (Purple Phase I)			Thu 11/5/15	80%						_	_	_							_	_					_				_		-	
1666 TNPA North Dunion 69kV Breaker Replacement (DNND 9010)			Wed 11/11/15	8%		-											_			1	1		1	i i			-			-		
1342 Bonnie Bree Relay Replacement - Substation			Wed 11/18/15	0%		-			-			-							_		-		-				1			1		
470 Teacley Substation T440 Relay and Control Installation 487 Fort Worth Substation F430 Relay and Control Installation			Fri 11/20/15 Fri 11/20/15	6%) 6%)			-					-				- t -				+ +			+ +									
1662 TMPA North Denton Switch Replacement		Tue 10/20/15		0%			1		—i-					_			1			-			+ 1				<u> </u>				-	-
501 Kings Row to Denton North (Yellow)	1138 days T		Fri 1/8/16	55%	_		-			-			-	-			-															-
744 Pockrus Phase III (Switchgear Building Ropfacement) 725 Teasley Substation Switchgear Nidg. #1 Replacement			Thu 2/11/16 Hon 2/22/16	6%	1		1		-			1		1		<u> </u>									1		-			-	<u> </u>	
725 Replace Denton North 138W Centrol Building			Fri 3/11/16	1446	_		_							_		·	_	· · · · · ·													_	
430 Cooper Creek to Kings Row TH Line (Purple Phase III)	1161 days F		Fri 4/1/16	65%			-	· · ·		_	-			-			-								_							
1770 TNPA Spencer Interchange Breakers, Switches & Bus			Fri 4/1/16	D*44															_													
771 Kings Row Substation 1710 Woodrow Substation Control Building & Switchgeer Building Replacement	1019 days F		Wed 4/6/16 Hon 4/18/16	67%	-		-		1	-	1	-	-	-	1		1							-	-							
1710 Woodrow substation Control Balance & Switchgear Balance Reporter 1735 TMPA Spencer Interchange New Terminal for Woodrow & N.Spencer			Hon 4/18/16	8%			-	1 2				-		-			_	1	_							1						1.1
1671 TMPA North Denton Control Building Replacement			Tue 6/14/16	8%		<u> </u>	-		-	_				-		· · · ·					1										-	
958 RD Wells Transformer #4 - Substation			Hon 6/27/16	3%		1	1	I I		1							-						1	1	1	1					1 1	1
542 Bonnie Brae to North Lakes - Transmission 944 Podorus to Mavhill Transmission (New Line)		Hon 11/18/13	Thu 8/11/16	40%			_	-	-	_	_	_	-	-			1								_	_			_		-	-
944 Podorus to Maynill Transmission (New Line) 1034 Locust Area Transmission Censtruction & Upgrade for New Locust Sub			Tue 8/23/16	6%s			_			_		<u> </u>		_										_	_		-		_			
1060 Arco Substation	687 days? P	4on 1/6/14	Fri 9/9/16	26%			-			_	-	-											-		-	-						++
1483 Sponcer to Locust Conductor Upgrade - Transmission		H 6/13/14	Thu 9/15/16	0%		- 1			- î								-				- 1		1 1				1			1	1	
1245 North Lakes Substation			Tue 10/4/16	21%						_										-	-				_		-			-		
1659 TMPA West Denton Breaker Replacement 951 Mayhill to Spencer / North Spencer Transmission (New Line)		4on 9/12/16 No: 9/30/14	Thu 10/27/16 Wed 11/2/16	0% 0%			_			_		<u> </u>		_				<u> </u>							_		-		_		<u> </u>	
1508 North Spencer to Shedy Oaka/Loop 288 - Transmission		4on 6/1/15	Wed 11/9/16	0%	-		-			-				-			_						-		-		-					-
844 North Lakes to Denton North - Transmission			PH 11/25/16	0%					- 1	_				_			-		-		• •		1		_		1			1		1.1
1713 RD Wells New Access Construction (read from Jim Christal)			Thu 12/1/16 Fri 12/9/16	8%	_				_	_				_		· · ·			_		•									_		
	281 days P 326 days V		Thu 12/9/16	2%										-					-	1 1			+ +				-			-		
1151 Spencer Area TM Line Changes & Additions - Transmission			Fri 12/30/16	4%	-									_	-		_										-			-		+
586 Locart Substation		Wed 10/16/13		13%											-						<u> </u>											_
1546 Hickory to Eagle - Transmission 1560 Eagle to Locast - Transmission		fue 4/1/54 fue 4/1/54	Tue 1/24/17 Tue 1/24/17	6%			1		_			1					_		-		<u> </u>				1							
1360 Kage to Column - Frankriker 1334 Bannie Bras Breaker Replacement - Substation			Fri 2/3/17	6%			-					<u>⊢ </u>		1	1	· · · ·	- 1	1					+ +									
876 Nickory Substation			Tue 2/7/17	18%			-		-	_			-												_						_	-
624 Denton North Construction (for KR-DN/Yellow TM)			Tue 5/16/17	28%											_		_				- <u>-</u>											
1623 RD Wells New 138kV Terminal (Hickory Substation) 1444 Industrial to North Spencer - Transmission		Wed 5/4/16	Wed 6/7/17	0%	_		1		_	_	-	-		_		- I-	_			1 1			-			-		L				
1444 Belastration North Spencer - Transmission 1454 Denton North to Long Road - Transmission			Fri 7/28/17	6%			-							1	1	i 1	1	1	1		1					1	-					1
1464 Long Read to Arco - Transmission	240 days		Fri 7/28/17	044	11		1																			- <u>-</u>					· · · · ·	1
1803 Pre Conversion Transmission Configuration of DN for North Lakes TM Line			Tue 8/1/17 Has 8/7/17	8%					_								_		_											-		
1474 Cooper Creek to Aroo - Transmission 1822 Pre Conversion Transmission Configuration for Hickory Substation (Overhead)			Non 8/7/17 Wel 10/4/17	0%s			-			-		-	-	-			-		-		1		_	-	-	-						
1206 Brinker Substation			Wed 11/15/17	9%	+		_				_	$ \rightarrow $							_						_						-	-
1698 TMPA North Denton construct Permanent 138kV Terminal for North Lakes Line	200 days	4on 2/6/17	Wed 11/15/17	0%																			<u> </u>									
1704 TNPA North Denten construct Temporary 138kV Terminal for North Lakes Line			Wed 11/15/17 Wed 2/7/18	0%					-		1		1		1	<u> </u>	1		1				-		1	1					1	
1049 Long Road Substation (Hills of Denton) 1835 Pre Conversion Transmission Configuration for Hickory Substation (Underground)	982 days P 490 days P		Wed 2/7/18 Tue 3/27/18	2%	+		· · · ·		-	_				1		1					1				_				_		-	-
1494 Underwood - Substation	1154 days T	fue 10/1/13	Tue 4/3/18	0%			1																									
1294 Regic Substation	1091 days P		FH 8/17/18	18%																												
1532 RD Wells to Hickory Relocation (Paccar) - Transmission 1536 New West Station to RD Wells-Hickory - Transmission	265 days7 T	Tue 8/22/17 Tue 8/22/17	Thu 9/6/18 Thu 9/6/18	0%		-	-	-		-	-		-	-			-			-	-		1	1		-		-	-			
1536 New West Station to Kur West Inciding - Instantision 1627 RD Wells New 138kV circuit to serve Hickory (138kV Conversion)			Fri 9/14/18	6%) 6%)			-			_				_				-				-					-				_	
916 Mayhill - Substation	1118 days /	ni 6/13/14	Tue 10/30/18	19%			1							-																		
1574 New West Switch - Substation			Fri 2/22/19	0%			1	1 1		1	1			1			1			1							-				1 1	1
1600 TMPA North Denton Planning for Retirement of 60 MVA auto (Brazos) 1604 TMPA North Denton Planning for Retirement of 112 MVA auto			Fri 4/26/19 Fri 4/26/19	0%			_			_				_			_													-		
1632 RD Wells THPA Auto Ratirement - Substation		4on 2/25/19	Wed 9/25/19	014						_	_	-		_		<u> </u>		+						-								
1638 Jim Christal Switches, Bus - Substation			Wed 10/30/19	6%			-		-	-	-			-	-	i +	-						+ 1	-								
1642 Bannie Brae Switcher, Bus - Substation			Wed 2/5/20	6%			-										_		_								-			-	-	
1579 Hatch Branch Switch Substation 1646 Pockrue to Arco Circuit - Transmission	1667 days? T 315 days W		Wed 2/19/20 Fri 5/1/20	4%							_					1					1						1 _					
1646 Pockrus to Arco Circuit - Transmission 1761 Hickory to Bonnie Brae - Transmission	315 days V 315 days V		Fri 5/1/20 Fri 5/1/20	0%						_				_		<u> </u>	_	<u> </u>											1.1	1.00		
1614 Fort Worth Switches, Bus - Substation		4on 1/6/20		014	-		· · · ·					()		_		i – – – –	_		_				+				_					
					1.1				- i	~		-						1 i			-											

Web Portal



- Live GIS Web Map
- DCAD data
- Bookmarks
- Search
- Measure
- Print
- Directions
- Street view (Bing Maps)

e-Builder Program Management Platform

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- Document Storage
- Cost Control
- Contract Management
- Annual Budget **Forecasting**
- Expedite Reporting **for TCOS/Project** close-out

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	Project Name 🔺	DME Project Number	Project Facility	Number of Parcels	Number of Parcels Acquired	Real Estate Company	Project Status
Recent Pages	***Master Materials Contracts						Administrative
	***Master Services Contracts						Administrative
Need Integration Help?	Account Admin - City of Denton/Freese & Nichols						Complete
Click here to find out more	Arco Substation	603268	Substation	1	0	Norfleet Group	Active
	Arco to Cooper Creek TM Line Rebuild	603511	Transmission Line			Norfleet Group	Active
	Bonnie Brae Substation	602099	Substation	1	1	Norfleet Group	Active
	Brinker Substation	603290	Substation	1	0	City of Denton	Active
	Cooper Creek Substation	603112	Substation	1	1	City of Denton	Active
	Cooper Creek to Kings Row (Purple III)	603539	Transmission Line				Active
	Denton North Interchange	603495	Substation			Norfleet Group	Active
	Denton North to Arco TM Line Rebuild	603512	Transmission Line			Norfleet Group	Active
	Denton North to North Lakes	602947	Transmission Line	17	0	Norfleet Group	Active
	Denton West Interchange	603496	Substation			Norfleet Group	Active
	Eagle (UNT) Substation	603200	Substation			Norfleet Group	Active
	Fort Worth Substation	603368	Substation	2	0	City of Denton	Active
	Hickory Substation	603234	Substation	9	0	Norfleet Group	Active
	Hickory to Bonnie Brae	603126	Transmission Line			Norfleet Group	Active
	Hickory to Locust 69kV TM Line	602949	Transmission Line	88	0	Norfleet Group	Active
	Industrial Substation	603497	Substation			Norfleet Group	Active
	Jim Christal Substation	603498	Substation			Norfleet Group	Active
	<						>

# **Project Meetings**

### TMPA Arco Switch/DME Arco Substation



#### Notes:

**8/7/14** - Landowner has signed the contract and Legal is preparing the ordinance. Planning to go to PUB on 8.11.14 and to council on 8.19.14

8/20/14 - CC approved the purchase of the expansion and is now in the closing process. Will close before or on 9/18.

9/2/14 - TNP is creating new easement for Nikki to use for Lovelace. Trying to close Friday 9/12 on the expansion of north of Arco.

10/16/14 - Pre-P&Z open house scheduled for 10/23. P&Z hearing scheduled for 11/5.

11/6/14 - SUP went to P&Z 11/5.

Site Selection		Complet	tion Date
Site Selection		Plan	Actual
Nikki Costanza	Make Initial Contact	7/15/13	12/9/13
Nikki Costanza	Attend Open House	12/12/13	12/12/13
Nikki Costanza	Follow-up LO Contact	12/13/13	12/13/13
Nikki Costanza	Send LOBoR	1/3/14	1/3/14
Nikki Costanza	PUB	1/13/14	1/13/14
Nikki Costanza	City Council	2/4/14	2/4/14

Land Procurement		Completion Date
Nikki Costanza	Quick Title	3/7/14
Nikki Costanza	Appraisal	8/23/13
Nikki Costanza	PUB (for IO & FO)	
Nikki Costanza	City Council (for IO & FO)	
Nikki Costanza	Initial Offer	4/7/14
Nikki Costanza	PUB (if Countered)	8/11/14
Nikki Costanza	City Council (if Countered)	8/19/14
Nikki Costanza	Final Offer	
Nikki Costanza	PUB (ED Ordinance)	
Nikki Costanza	City Council (ED Ordinance)	
Scott Hickey	Eminent Domain (File Petition)	
Nikki Costanza	Site Closing	9/18/14
Nikki Costanza	Recorded Deed	

Permitting		Complet	ion Date
Permitting		Sub	Rec
Gary Vickery	Pre-Application (PAC14-0004)	1/06//14	1/30/14
Gary Vickery	Minor Plat	- AN - 220-	
Gary Vickery	Specific Use Permit (SUP) (S14-0006)	7/15/14	8/4/14
Gary Vickery	Building Permit		
Gary Vickery	Clearing & Grading Permit		

Design		Completion Date
DME Engineering	Site Survey (including tree survey)	2/27/13
DME Engineering	Phase 1	6/4/13
DME Engineering	Geotech	Completed
DME Engineering	Site Civil	a second design of the second
DME Engineering	Electrical Design	
DME Engineering	Relay Design	
DME Engineering	Public Improvement Specification	

#### Project Description:

TMPA Arco Switch/DME Arco Substation: Complete reconstruction of the Arco Switch/Substation on an adjacent site. Only the distribution transformers will be salvaged from the original station.

#### **DENTON** ELECTRIC

- Standing meeting Thursdays
- Review progress of action items
- Coordinate team activities
- Develop strategy
- Process

improvements

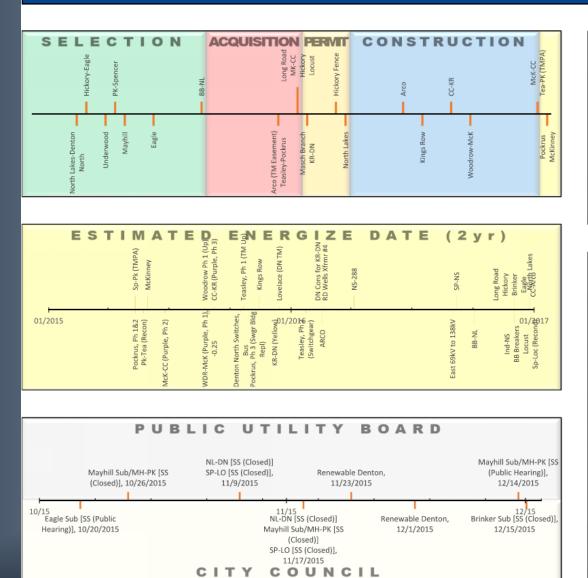
 Last meeting of month reserved for executive briefings

### **Exec Dashboard**

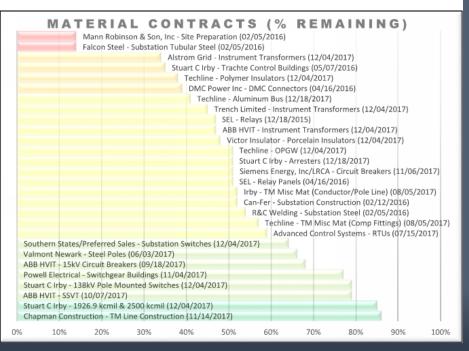
#### CIP Program Summary

#### 10/22/2015





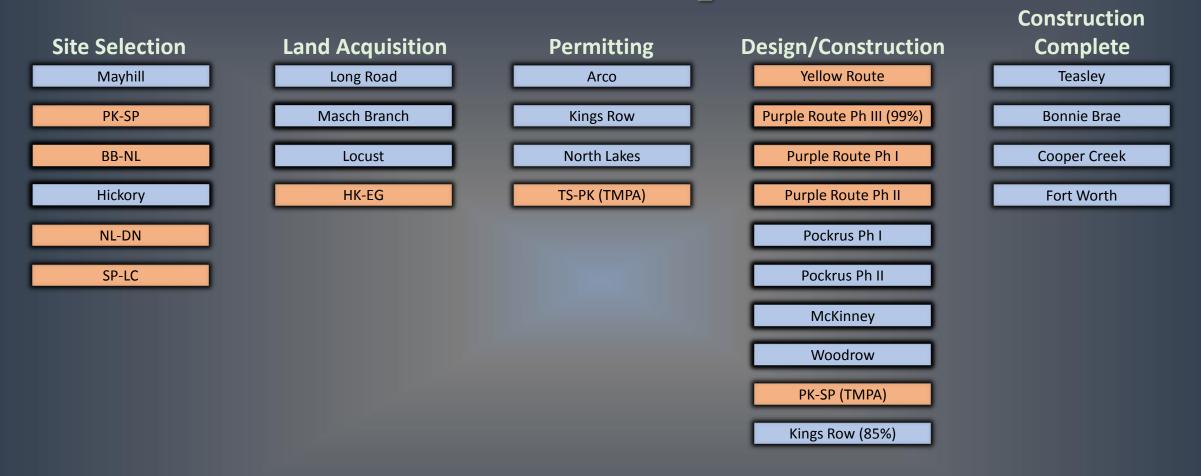


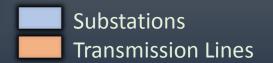


### **Exec Dashboard**

AcKinney to Cooper Creek TM Line (Purple Phase II)
IcKinney Substation
encer to Pockrus TM Line (TMPA)
ockrus Substation (Phase I & II)
ockrus to Teasley TM Line (TMPA)
pencer Interchange S8040 Transmission Line Changes
Noodrow to McKinney TM Line (Purple Phase I)
Spencer Interchange S8040 Relay Panel Replacements
Woodrow Substation Phase I (Upgrade)
Cooper Creek to Kings Row TM Line (Purple Phase III)
Denton North Construction (for KR-DN/Yellow TM)
Kings Row to Denton North TM Line (Yellow)
-
Kings Row Substation
Bonnie Brae to North Lakes TM Line
Teasley Substation TM Line (Phase II)
ARCO Substation
East TM Line Conversion Substation
Locust Substation
Longroad Substation
Hickory to Eagle TM Line
Locust to Eagle TM Line
North Lakes to Denton North TM Line
Eagle Substation
North Spencer Substation (Brinker)
Mayhill Substation
Hickory Substation
RD Wells Transformer #4 - Substation
North Lakes Substation
East TM Line Conversion
Industrial Substation (Switches, Bus & Switchgear)
Bonnie Brae Substation (Breaker Replacement)
Cooper Creek to Arco TM Line
Spencer to North Spencer TM Line
Industrial to North Spencer TM Line
Denton North to Arco TM Line
Spencer to Locust TM Line
Underwood Substation
North Spencer to Shady Oaks/Loop 288 TM Line
RD Wells to Hickory Relocation (Paccar) TM Line
New West Station to RD Wells-Hickory TM Line
New West Switch Substation
Masch Branch Substation
RD Wells TMPA Auto Retirement Substation
South 138kV Conversion Substation
West 138kV Conversion Substation
Vest 69kV to 138kV Conversion TM Line
Fort Worth Switches, Bus Substation
lim Christal Switches, Bus Substation
Denton North Auto Retirement Substation
onnie Brae Switches, Bus Substation
enton North Switches, Bus Substation
D Wells DME Auto Retirement Substation
Pockrus to Arco Circuit TM Line
Pockrus to Arco Circuit TM Line
Pockrus to Arco circuit Thi Line

# 2014-2015 Accomplishments





### **Status of FNI contract**

### Project/Program Management Assistance \$6 million approved

- NTP late October 2013, good through September 2016
- Preliminary work began early November 2013
- Full effort began January 2014
- Scaled up as number of projects and workload increased
- Two construction managers on site daily

### Real Estate Support \$6 million approved

- Early stages of land acquisition
- Several substation sites in site selection and acquisition stage
- Preliminary work on transmission line route selection
- Beginning acquisition on transmission line routes

### \$3,140,000 through September

### **\$750,000 through September**

### **Major Accomplishments Since Summer 2011**

Updated FERC 715 Study
CIP developed & approved
5 Substation Upgrades Completed
3 New Substations Completed
2 TM Line Upgrades Completed
2 New TM Lines Completed



# Closing Remarks & Questions