

Customer Study Number  
EDE AG1-2007-051

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
EDE	1222640	WPEK	EDE	100	11/1/2008	11/1/2028	6/1/2011	6/1/2031	\$ 1,800,000	\$ -	\$ 8,099,440	\$ 29,313,899
									\$ 1,800,000	\$ -	\$ 8,099,440	\$ 29,313,899

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements	
1222640	ALLEN 69KV Capacitor	12/1/2007	6/1/2010			\$ 3,685	\$ 500,000	\$ 12,954	
	ATHENS 69KV Capacitor	12/1/2007	6/1/2010			\$ 3,685	\$ 500,000	\$ 12,954	
	Craig (542978) Cap Bank Phase 1	6/1/2009	6/1/2010		No	\$ 718,200	\$ 3,000,000	\$ 3,082,604	
	Craig (542978) Cap Bank Phase 2	6/1/2010	6/1/2010			\$ 718,200	\$ 3,000,000	\$ 3,082,604	
	East Manhattan - SW Manhattan 115kV Displacement	6/1/2009	6/1/2011		Yes	\$ 384,076	\$ 428,963	\$ 1,274,116	
	EAST MANHATTAN (EMANHT3X) 230/115/18.0KV TRANSFORMER CKT 2 Displacement	6/1/2009	6/1/2011		Yes	\$ 349,205	\$ 398,438	\$ 1,158,437	
	East Manhattan to Mcdowell 230 kV Displacement	6/1/2009	6/1/2011		Yes	\$ 122,740	\$ 128,528	\$ 407,172	
	Hawthorn and W Gardner Cap Banks	6/1/2009	6/1/2010		No	\$ 837,899	\$ 3,500,000	\$ 3,596,367	
	JOPLIN 59 - SUB 439 - STATELINE 161KV CKT 1 Displacement	6/1/2011	6/1/2011			\$ 731,141	\$ 774,301	\$ 2,341,504	
	JOPLIN 59 - SUB 59 - JOPLIN 26TH ST. 161/69KV TRANSFORMER CKT 1 Displacement	6/1/2011	6/1/2011			\$ 936,548	\$ 991,833	\$ 2,999,326	
	SOUTHWEST - SOUTHWEST DISPOSAL 161KV CKT 1	6/1/2013	6/1/2013			\$ 8,285	\$ 246,000	\$ 22,117	
	SUB 170 - NICHOLS ST. - SUB 80 - MARSHFIELD JCT. 69KV CKT 1	6/1/2009	6/1/2010		Yes	\$ 3,000,000	\$ 3,000,000	\$ 10,178,071	
	TECUMSEH ENERGY CENTER - MIDLAND 115KV CKT 1 Displacement	6/1/2009	6/1/2009			\$ 156,023	\$ 258,414	\$ 580,833	
	TIOGA 69KV Capacitor	12/1/2007	6/1/2010			\$ 3,685	\$ 500,000	\$ 12,954	
	West Gardner 345 kV Tap on Stillwell-Swissvale 345 kV 50 Additional MVAR Displacement	6/1/2010	6/1/2010			\$ 126,068	\$ 526,599	\$ 551,887	
						Total	\$ 8,099,440	\$ 17,753,076	\$ 29,313,899

Expansion Plan - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1222640	ANZIO - FORT JUNCTION SWITCHING STATION 115KV CKT 1	12/1/2007	6/1/2010		Yes
	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2016	6/1/2016		
	BLUE SPRINGS EAST CAP BANK	6/1/2009	6/1/2010		No
	BROOKLINE - SUMMIT 345 kV CKT 1	6/1/2013	6/1/2013		
	BULL SHOALS - BULL SHOALS 161KV CKT 1	6/1/2009	11/1/2009		No
	Centerville Cap Bank	6/1/2009	6/1/2010		No
	FT SMITH CAP BANK	6/1/2017	6/1/2017		
	JAMESVILLE - SUB 415 - BLACKHAWK JCT. 69KV CKT 1 EMDE	6/1/2011	6/1/2011		
	KERR - PENSACOLA 115KV CKT 1	12/1/2012	12/1/2012		
	NIXA 161KV CAP BANK	6/1/2017	6/1/2017		
	NORTON 161KV CAPACITOR	6/1/2013	6/1/2013		
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2009	6/1/2009		
	SUB 124 - AURORA H.T. - SUB 152 - MONETT H.T. 69KV CKT 1	6/1/2009	6/1/2009		
	SUB 124 - AURORA H.T. 161KV	6/1/2010	6/1/2010		
	SUB 145 - JOPLIN WEST 7TH - SUB 64 - JOPLIN 10TH ST. 69KV CKT 1	6/1/2010	6/1/2010		
	SUB 152 - MONETT H.T. - SUB 383 - MONETT 69KV CKT 1	6/1/2009	6/1/2009		
	SUB 383 - MONETT (MONETT) 161/69/12.5KV TRANSFORMER CKT 1	6/1/2014	6/1/2014		
	SUB 438 - RIVERSIDE 161KV	6/1/2010	6/1/2010		
	TECUMSEH ENERGY CENTER - MIDLAND 115KV CKT 1 Displacement	6/1/2009	6/1/2009		

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1222640	SUB 110 - OROLOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1	6/1/2011	6/1/2011		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		

Third Party Limitations.

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1222640	5BEE BR - QUITMAN 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	5CLINTN - CLINTON WEST (AECC) 161KV CKT 1	6/1/2012	6/1/2012			\$ -	\$ -
	5FLIPN - BULL SHOALS HES 161KV CKT 1	6/1/2017	6/1/2017			\$ -	\$ -
	5HILLTOP 161.00 - 5ST_JOE 161.00 161KV CKT 1	6/1/2017	6/1/2017			\$ -	\$ -
	5ST_JOE 161.00 - EVERTON 161KV CKT 1	10/1/2008	10/1/2008			\$ -	\$ -
	CLINTON - OSCEOLA 161KV CKT 1	6/1/2017	6/1/2017			\$ -	\$ -
	EVERTON - HARRISON-EAST 161KV CKT 1	10/1/2008	10/1/2008			\$ -	\$ -
	HARRISON-EAST - SUMMIT 161KV CKT 1	6/1/2012	6/1/2012			\$ -	\$ -
	HUBEN (HUBEN) 345/161/13.8KV TRANSFORMER CKT 1	6/1/2017	6/1/2017			\$ -	\$ -
	JAMESVILLE - SUB 415 - BLACKHAWK JCT. 69KV CKT 1 AECl	6/1/2011	6/1/2011			\$ -	\$ -
						Total	\$ -

Upgrade Name	COD	EOC	Allocated E & C Cost	Zones Benefited
ALLEN 69KV Capacitor	12/1/2007	6/1/2010	\$ 3,685	MW-Mile Not Considered
ATHENS 69KV Capacitor	12/1/2007	6/1/2010	\$ 3,685	MW-Mile Not Considered
Craig (542978) Cap Bank Phase 1	6/1/2009	6/1/2010	\$ 718,200	MW-Mile Not Considered
Craig (542978) Cap Bank Phase 2	6/1/2010	6/1/2010	\$ 718,200	MW-Mile Not Considered
East Manhattan - SW Manhattan 115kV Displacement	6/1/2009	6/1/2011	\$ 384,076	WERE
EAST MANHATTAN (EMANHT3X) 230/115/18.0KV TRANSFORMER CKT 2 Displacement	6/1/2009	6/1/2011	\$ 349,205	WERE
East Manhattan to Mcdowell 230 kV Displacement	6/1/2009	6/1/2011	\$ 122,740	WERE
Hawthorn and W Gardner Cap Banks	6/1/2009	6/1/2010	\$ 837,899	MW-Mile Not Considered
JOPLIN 59 - SUB 439 - STATELINE 161KV CKT 1 Displacement	6/1/2011	6/1/2011	\$ 731,141	KACP and EMDE
JOPLIN 59 - SUB 59 - JOPLIN 26TH ST. 161/69KV TRANSFORMER CKT 1 Displacement	6/1/2011	6/1/2011	\$ 936,548	KACP and EMDE
SOUTHWEST - SOUTHWEST DISPOSAL 161KV CKT 1	6/1/2013	6/1/2013	\$ 8,285	No zones benefited greater than 100k
SUB 170 - NICHOLS ST. - SUB 80 - MARSHFIELD JCT. 69KV CKT 1	6/1/2009	6/1/2010	\$ 3,000,000	KACP and EMDE
TECUMSEH ENERGY CENTER - MIDLAND 115KV CKT 1 Displacement	6/1/2009	6/1/2009	\$ 156,023	WERE
TIOGA 69KV Capacitor	12/1/2007	6/1/2010	\$ 3,685	MW-Mile Not Considered
West Gardner 345 kV Tap on Stillwell-Swissvale 345 kV 50 Additional MVAR Displacement	6/1/2010	6/1/2010	\$ 126,068	No zones benefited greater than 100k

*East Manhattan Upgrades*  
*Joplin 59 Upgrades*  
*SUB 170 - NICHOLS ST. - SUB 80 - MARSHFIELD JCT. 69KV CKT 1*  
*TECUMSEH ENERGY CENTER - MIDLAND 115KV CKT 1 Displacement*

ZONE	East Manhattan Upgrades	Joplin 59 Upgrades	SUB 170 - NICHOLS ST. - SUB 80 - MARSHFIELD JCT. 69KV CKT 1	TECUMSEH ENERGY CENTER - MIDLAND 115KV CKT 1 Displacement
CLECO	0.0%	0.0%	0.0%	0.0%
SWPA	0.0%	0.0%	0.0%	0.0%
AEP	0.0%	0.0%	0.0%	0.0%
GRDA	0.0%	0.0%	0.0%	0.0%
OKGE	0.0%	0.0%	0.0%	0.0%
WFEC	0.0%	0.0%	0.0%	0.0%
SPS	0.0%	0.0%	0.0%	0.0%
MIDW	0.0%	0.0%	0.0%	0.0%
SUNF	0.0%	0.0%	0.0%	0.0%
WESTAR	100.0%	0.0%	0.0%	100.0%
WEPL	0.0%	0.0%	0.0%	0.0%
MIPU	0.0%	0.0%	0.0%	0.0%
KACP	0.0%	10.5%	15.9%	0.0%
EMDE	0.0%	89.5%	84.1%	0.0%
SPRM	0.0%	0.0%	0.0%	0.0%
<b>TOTAL</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>



Upgrade Name	COD	EOC	Allocated E & C Cost	Zones Benefited
ARDMORE - ROCKY POINT 69KV CKT 1	6/1/2011	6/1/2011	\$ 764,916	AEPW, OKGE
DILLARD4 - HEALDTON TAP 138KV CKT 1	6/1/2011	6/1/2011	\$ 141,602	MW-Mile Not Considered
FULTON - HOPE 115KV CKT 1 AECC	6/1/2011	6/1/2011	\$ 1,540,361	AEPW, OKGE
HEMPSTEAD - HOPE 115KV CKT 1	6/1/2011	6/1/2011	\$ 6,711,928	AEPW, OKGE
HEMPSTEAD - NW TEXARKANA 345KV CKT 1	6/1/2011	6/1/2011	\$ 42,406,792	CELE, SWPA, AEPW, GRDA, OKGE, WFEC, SPS, WERE, MIPU, KACP, EMDE
Hugo - SunnySide 345kv OKGE	4/1/2008	6/1/2011	\$ 20,987,107	CELE, SWPA, AEPW, GRDA, OKGE, WFEC, SPS, SUNC, WERE, WEPL, MIPU, KACP
Hugo - SunnySide 345kv WFEC	4/1/2008	6/1/2011	\$ 18,609,257	CELE, SWPA, AEPW, GRDA, OKGE, WFEC, SPS, SUNC, WERE, WEPL, MIPU, KACP
LAWTON EASTSIDE (LES 4) 345/138/13.8KV TRANSFORMER CKT 1	12/1/2012	12/1/2012	\$ 1,844,791	AEPW, OKGE, WFEC, SPS
LINWOOD - POWELL STREET 138KV CKT 1	6/1/2012	6/1/2012	\$ 233,456	MW-Mile Not Considered
LONGWOOD (LONGWOOD) 345/138/13.2KV TRANSFORMER CKT 1	6/1/2008	6/1/2010	\$ 1,843,299	CELE, AEPW
OKAY - TOLLETTE 69KV CKT 1 Displacement	6/1/2011	6/1/2011	\$ 9,576	No zones benefited greater than 100k
SE TEXARKANA - TEXARKANA PLANT 69KV CKT 1	6/1/2011	6/1/2011	\$ 26,340	No zones benefited greater than 100k
SUNNYSIDE - UNIROYAL 138KV CKT 1	6/1/2011	6/1/2011	\$ 18,721	No zones benefited greater than 100k
	4/1/2008	6/1/2011	\$ 2,688,004	CELE, SWPA, AEPW, GRDA, OKGE, WFEC, SPS, SUNC, WERE, WEPL, MIPU, KACP

**ZONE**

CELE	0.0%	0.0%	7.0%	2.1%	1.2%	0.0%	6.3%
SWPA	0.0%	0.0%	3.7%	0.4%	1.6%	0.0%	0.0%
AEPW	24.3%	73.1%	54.2%	84.3%	49.4%	36.7%	93.7%
GRDA	0.0%	0.0%	0.0%	0.4%	0.6%	0.0%	0.0%
OKGE	75.7%	26.9%	22.1%	5.5%	23.8%	17.5%	0.0%
WFEC	0.0%	0.0%	5.0%	3.9%	11.5%	13.2%	0.0%
SPS	0.0%	0.0%	0.0%	0.9%	4.0%	32.6%	0.0%
MIDW	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SUNC	0.0%	0.0%	0.0%	0.0%	1.3%	0.0%	0.0%
WERE	0.0%	0.0%	4.2%	1.2%	5.0%	0.0%	0.0%
WEPL	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%
MIPU	0.0%	0.0%	0.0%	0.3%	0.3%	0.0%	0.0%
KACP	0.0%	0.0%	3.9%	0.6%	1.1%	0.0%	0.0%
EMDE	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%
SPRM	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>TOTAL</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>

ARDMORE - ROCKY POINT 69KV CKT 1

FULTON - HOPE 115KV CKT 1 AECC

HEMPSTEAD - HOPE 115KV CKT 1

HEMPSTEAD - NW TEXARKANA 345KV CKT 1

Hugo - SunnySide 345kv OKGE

LAWTON EASTSIDE (LES 4) 345/138/13.8KV TRANSFORMER CKT 1

LONGWOOD (LONGWOOD) 345/138/13.2KV TRANSFORMER CKT 1