

NTC ID	PID	UID	Facility Owner	2016 Project Type	Cost Estimate	Cost Estimate Source	Upgrade Description	TO Projected In-Service Date	RTO Determined Need Date
20003	136	10174	WFEC	ITP	\$6,674,000	SPP	Build new 10 mile Meeker - Hammett 138 kV and install terminal equipment.	6/1/2015	6/1/2008
20003	138	10176	WFEC	ITP	\$1,050,000	SPP	Upgrade WFEC Woodward sub to 1200 A and reconductor from 336.4 ACSR to 795 ACSR; new rating 91/110 MVA.	5/1/2016	4/1/2009
20003	241	10307	WFEC	ITP	\$2,000,000	WFEC	Rebuild 2 mile Anadarko - Georgia 138 kV line from 556 to 1113 ACSR.	6/26/2015	6/1/2009
20003	242	10308	WFEC	ITP	\$3,240,000	WFEC	Elmore - Paoli Rebuild 3/0 to 336 ACSR - 10.8 miles.	12/31/2016	6/1/2009
200291	319	10414	WR	Regional Reliability	\$6,278,731	WR	Rebuild 2.65-mile 69 kV line from Westlink to Tyler. Install terminal equipment at Tyler.	12/31/2015	6/1/2014
20003	402	10524	WFEC	ITP	\$5,000,000	WFEC	Install new 138/69 kV transformer at Grandfield	4/1/2016	6/1/2012
200216	451	10583	AEP	ITP	\$12,705,537	AEP	Rebuild and reconductor 11.1-mile 161 kV line from Chamber Springs to Farmington REC with 2-959.6 ACSR/TW. Upgrade wavetraps, CT ratios, and relay settings at Chamber Springs.	6/1/2017	6/1/2013
200166	461	10597	SPS	ITP	\$36,112,744	SPS	Build 40 miles of 115 kV transmission line between Bailey County and Curry County.	9/30/2016	6/1/2012
200296	30390	10600	WR	ITP	\$58,317,000	WR	Rebuild 27-mile 230 kV line from East Manhattan to Jeffrey Energy Center to 345 kV standards but operate as 230 kV using bundled 1590 ACSR conductor. Upgrade terminal equipment at East Manhattan and Jeffrey Energy Center to a minimum emergency rating of 2000 Amps.	6/1/2017	6/1/2017
200216	478	10615	AEP	ITP	\$1,221,505	AEP	Rebuild 2.3-mile 69 kV line from Forbing to South Shreveport with 1233.6 ACSR/TW.	6/1/2016	6/1/2013
200216	501	10646	AEP	ITP	\$11,980,465	AEP	Rebuild 6.4-mile 69 kV line from Evenside to Northwest Henderson with 1233.6 ACSR/TW. Replace breaker at Evenside.	6/1/2018	6/1/2018
200216	504	10649	AEP	ITP	\$12,424,849	AEP	Rebuild 4.7-mile 69 kV line from Brownlee to North Market with 1233.6 ACSR/TW.	12/31/2016	6/1/2013
200246	512	10657	AEP	ITP	\$8,174,689	AEP	Rebuild 2.0-mile 69 kV line from Ellerbe Road to Forbing T with 1233.6 ACSR/TW conductor.	6/1/2016	6/1/2014
	30208	10991	MKEC	ITP	\$2,501,569	MKEC	Rebuild MKEC portion of the 5.6 mile Clearwater-Milan Tap 115 kV with bundled 1192.5 kcmil ACSR conductor (Bunting)		3/1/2022
	30209	10992	WR	ITP	\$11,839,190	WR	Rebuild Westar portion of the Clearwater-Milan tap 115 kV with bundled 1192.5 kcmil ACSR conductor (Bunting)		
200345	756	10998	WR	Regional Reliability	\$9,536,211	SPP	Tap the Lawrence Hill - Swissvale 230 kV line into the Baldwin Creek 115 kV substation. Install a new 230/115 kV transformer at Baldwin Creek.		6/1/2017
20130	764	11009	SPS	ITP	\$1,565,056	SPS	Upgrade Happy County 115/69 kV Transformer #2 to 84/96 MVA	3/20/2016	6/1/2012
200256	766	11010	SPS	ITP	\$8,267,590	SPS	Add second 230/115 kV 250 MVA transformer at Newhart substation.	10/3/2016	6/1/2015
200229	772	11017	SPS	ITP	\$33,465,000	SPS	Build new 16.8-mile 230 kV line from Carlisle to Wolfforth South and install necessary terminal equipment.	6/1/2017	6/1/2017
200214	802	11064	SPS	ITP	\$4,022,313	SPS	Upgrade Eddy County 230/115 kV transformer Ckt 1 to 250 MVA.	7/12/2016	6/1/2016
200214	841	11110	SPS	Regional Reliability	\$2,035,000	SPS	Upgrade Graham 115/69 kV transformer Ckt 1 to 84 MVA.	2/29/2016	6/1/2014

200245	844	11113	WFEC	ITP	\$4,725,000	WFEC	Reconductor 9.9-mile 69 kV line from Mustang to Sunshine Canyon upgrading conductor from 4/0 to 556.	12/31/2015	6/1/2014
20132	846	11115	WFEC	ITP	\$14,737,500	WFEC	Rebuild 25.2-mile Anadarko - Blanchard 69 kV line as 138 kV.		6/1/2012
20132	846	11116	WFEC	ITP	\$1,125,000	WFEC	Rebuild 2-mile Blanchard - OU Switchyard 69 kV line as 138 kV.	8/1/2016	6/1/2012
200256	856	11127	SPS	ITP	\$10,845,671	SPS	Build new 5.1-mile 115 kV line from Centre St. to Hereford NE. Convert distribution transformer high side at Centre St. from 69 kV to 115 kV. Install any necessary terminal equipment at Hereford NE.	2/1/2018	6/1/2014
200207	865	11142	OPPD	ITP	\$475,340	OPPD	Increase line clearances and upgrade terminal equipment on Sub 917 - Sub 918 69 kV line to allow the use of a higher conductor rating.	6/1/2018	6/1/2018
200208	909	11205	WFEC	ITP	\$1,705,000	WFEC	Rebuild and convert 4-mile Oklahoma University Switchyard - Cole Substation line to 138 kV and install necessary terminal equipment.	6/1/2016	6/1/2013
20110	910	11207	OGE	Transmission Service	\$225,000	OGE	Replace wavetrap	6/1/2019	6/1/2019
20096	936	11236	AEP	High Priority	\$127,995,000	AEP	Build a new 76 mile 345 kV line from Valliant to NW Texarkana with at least 3000 A capacity. Upgrade the Valliant and NW Texarkana substations with the necessary breakers and terminal equipment.	10/1/2016	10/1/2014
20097	938	11238	TSMO	High Priority	\$184,665,083	TSMO	Build a new 105 mile 345 kV line with at least 3000 A capacity from Sibley to a new Mullin Creek (formerly Maryville) substation. Upgrade the Sibley substation with the necessary breakers and terminal equipment.	12/31/2016	6/1/2017
20097	938	11239	TSMO	High Priority	\$81,407,015	TSMO	Build a new 345 kV substation at Mullin Creek (formerly Maryville) with a ring bus and necessary terminal equipment. Build a new 65 mile 345 kV line with at least 3000 A capacity from the new Mullin Creek substation to the Missouri/Nebraska state border towards OPPD's Nebraska City substation.	12/31/2016	6/1/2017
20098	939	11240	OPPD	High Priority	\$70,361,776	OPPD	Build a new 45-mile 345 kV line with at least 3000 A capacity from the Nebraska City substation to the Missouri/Nebraska state border towards KCPL's Mullin Creek (formerly Maryville) substation. Upgrade the Nebraska City substation with the necessary breakers and terminal equipment.	12/31/2016	6/1/2017
20104	947	11261	AEP	Transmission Service	\$6,072,000	AEPW	Rebuild 4.33 of 795 ACSR with 1590 ACSR.	6/1/2016	6/1/2015

							Construct approximately 2 miles of new 115 kV line from Randall Co. with 795 ACSR. Tie new line into V70 around (not to) Osage Substation. Add new 115 kV terminal at Randall Co. Interchange. (Re-build Randall 115 kV bus to breaker and one-half design.) Re-Conductor V70 with 795 ACSR. Remove line termination at Osage Substation. Upgrade terminal equipment and reset relays at South Georgia Interchange. Remove V04 termination from Osage and remove circuit back to Manhattan Tap (remove 3-terminal condition). Remove circuits V67 & V05 terminations from Osage and tie together around Osage Substation. Leave only V43 & T75 terminated at the Osage Substation.		
20130	1001	11315	SPS	ITP	\$10,316,217	SPS		7/1/2017	6/1/2016
200214	1003	11317	SPS	ITP	\$3,931,089	SPS	Upgrade Grassland 230/115 kV transformer Ckt 1 to 250 MVA.	1/29/2016	6/1/2013
20110	1021	11343	OGE	Transmission Service	\$18,000,000	OGE	Add 3rd 345kV line from Arcadia to Redbud	6/1/2019	6/1/2019
200214	1031	11356	SPS	ITP	\$1,861,774	SPS	Upgrade Crosby County 115/69 kV transformer Ckt 2 to 84 MVA.	8/14/2015	6/1/2013
200166	1033	11358	SPS	ITP	\$6,300,000	SPS	Reconductor 4.1 miles of 6.1-mile 115 kV line from Randall County to South Georgia.	7/1/2017	6/1/2017
20130	1036	11372	SPS	ITP	\$4,041,273	SPS	Convert 1.04 miles of Z33 to 115 kV service by tapping the 115 kV line from Sunset Substation to Coulter Interchange at I-40 & Soncy Street. At Soncy Sub split the converted Z33 line off the 69 kV bus and terminate to a new 115/13.2 kV transformer to serve the Soncy distribution load. Install new 115/13.2 kV distribution transformer. Leave 69 kV underground cable to Lawrence Park to be fed by Y72 out of Coulter Interchange.	3/31/2017	6/1/2015
200305	1083	11423	AEP	ITP	\$24,880,495	AEP	Rebuild 23.7-mile 138 kV line from Welsh Reserve to Wilkes with 1926.9 ACSR/TW conductor. Upgrade switches at Welsh Reserve and Wilkes and wave traps, jumpers, CT ratios, and relay settings at Wilkes.	6/1/2019	6/1/2019
200208	909	11425	WFEC	ITP	\$1,400,000	WFEC	Convert 10.2-mile Cole - Criner line to 138 kV and convert the Cole substation to 138 kV.	4/1/2016	6/1/2013
200297	1139	11501	SPS	High Priority	\$1,164,782	SPS	Rebuild 6-mile 115 kV line from Lubbock South Interchange to Allen substation.	6/1/2019	6/1/2019
200262	1142	11506	SPS	Regional Reliability	\$12,806,065	SPS	Rebuild 13.5-mile 4/0 segment of 115 kV line from Canyon East Sub to Randall County Interchange with 795 ACSR conductor.	12/31/2020	2/1/2014
200262	1144	11508	SPS	Regional Reliability	\$4,402,479	SPS	Add second 230/115 kV 250 MVA transformer at Hitchland.	12/15/2016	6/1/2019
	1146	11509	SPS	Regional Reliability	\$3,644,914	SPS	Upgrade 230/115 kV transformer at Carlisle.		10/1/2015
200214	1147	11514	SPS	ITP	\$9,171,504	SPS	Convert 35 miles of 115 kV line from Channing to new XIT substation (near Dallam) to 230 kV.	6/1/2015	6/1/2013
200214	1147	11515	SPS	ITP	\$1,954,806	SPS	Install 230/115 kV transformer at XIT substation.	12/31/2015	6/1/2013
	1145	11524	SPS	ITP	\$4,714,312	SPS	Reconductor 3.98 miles of Carlisle - Murphy 115 kV.		
20017	30160	50168	OGE	Transmission Service	\$24,000,000	OGE	Convert Ft. Smith 161KV to 1-1/2 breaker design and install 3rd 500-161KV transformer bank.	5/1/2018	6/1/2017
20080	30201	50208	NPPD	ITP	\$700,000	NPPD	Add a 18 Mvar capacitor bank at Clarks substation 115 kV bus.		11/1/2012

20080	30203	50210	NPPD	ITP	\$700,000	NPPD	Add a second 18 Mvar capacitor bank at Oneill 115 kV substation for a total of 36 Mvar at this location.		11/1/2012
20108	30290	50328	WR	Transmission Service	\$108,694	WR	Replace disconnect switches, wavetrap and CT	6/1/2016	6/1/2019
20122	30296	50334	AEP	ITP	\$1,166,400	AEP	Install a new 28.8 MVAR capacitor bank at Winnsboro 138 kV substation.	6/1/2016	6/1/2016
20122	30298	50336	AEP	ITP	\$1,166,400	AEP	Install 28.8 MVAR capacitor bank at Logansport 138 kV substation.	6/1/2016	6/1/2016
20140	30326	50372	WR	Zonal Reliability	\$9,308,090	WR	Build 6.7-mile Clay Center Switching Station to TC Riley 115 kV line with Single 1192.5 kcmil ACSR (Bunting).	6/1/2018	10/1/2012
20140	30328	50374	WR	Zonal Reliability	\$963,441	WR	Install a 2000 Amp bus system, GOAB switches, metering and communication systems.	6/1/2018	10/1/2012
	30329	50376	SPS	ITP	\$944,754	SPS	Install 28.8 Mvar capacitor at Lamb County 69 kV.		
200282	30331	50378	SPS	High Priority	\$1,470,325	SPS	Install 14.4-Mvar capacitor bank at Eagle Creek 115 kV bus.	10/15/2016	6/1/2015
200255	30361	50413	AEP	ITP	\$93,361,588	AEP	Build new single circuit 345 kV line from new Chisholm substation to point of interconnection with Oklahoma Gas & Electric Co. (OGE) towards Gracemont. The approximate line length for the Chisholm - Gracemont 345 kV line is 100 miles, of which AEP will construct approximately 70 miles from Chisholm to the OGE interconnection point.	3/1/2018	3/1/2018
200255	30361	50414	AEP	ITP	\$20,410,547	AEP	Construct new 345/230 kV Chisholm substation between existing 230 kV substations, Sweetwater and Elk City. Cut-in existing Sweetwater - Elk City 230 kV Ckt 1 line into new Chisholm substation and install any necessary 230 kV terminal equipment. Install new 345/230 675 MVA transformer at new Chisholm substation.	3/1/2018	3/1/2018
	30362	50416	AEP	ITP	\$100,504,688	AEP	Build 55 mile new 345 kV line from Welsh to Lake Hawkins (or Perdue).		
	30362	50417	AEP	ITP	\$16,666,456	AEP	Expand Lake Hawkins (or Perdue) substation (or build new station). Install a 345/138 kV transformer at Lake Hawkins (or Perdue).	3/1/2022	
	30363	50418	OGE	ITP	\$15,990,000	SPP	Reconductor 26 mile Glass Mountain - Mooreland line to 795 AS33		
200240	30361	50419	OGE	ITP	\$43,853,500	OGE	Build new 30-mile single circuit 345 kV line from the Gracemont substation to the interconnection point with American Electric Power, toward the new Chisholm substation. Install any necessary terminal equipment at Gracemont.	3/1/2018	3/1/2018
200223	30364	50420	OGE	ITP	\$59,522,400	OGE	Build second circuit of new 49-mile 345 kV line from Woodward District EHV to Tatonga.	3/1/2021	3/1/2021
200223	30364	50421	OGE	ITP	\$65,785,650	OGE	Build second circuit of new 61-mile 345 kV line from Tatonga to new Matthewson substation.	3/1/2021	3/1/2021
	30365	50422	GMO	ITP	\$3,039,096	KCPL	Reconductor 3.21 miles from Blue Springs to Prairie Lee 161 kV to 795 ACSS. Upgrade substation equipment to 2000 Amps.		
	30365	50423	GMO	ITP	\$2,399,248	KCPL	Reconductor 2.5 mile from Blue Springs South - Blue Springs East 161 kV to 795 ACSS. Upgrade substation equipment to 2000 Amps.		
200222	30367	50425	ITCGP	ITP	\$32,955,766	ITCGP	Build new 345 kV line from the Elm Creek substation to the Westar Energy, Inc. interception point from the Summit substation.	3/1/2018	3/1/2018
200222	30367	50426	ITCGP	ITP	\$5,544,361	ITCGP	Install new 345/230 kV transformer at Elm Creek.	12/31/2016	3/1/2018

200222	30367	50427	ITCGP	ITP	\$12,764,589	ITCGP	Install terminal equipment on the 345 kV side of the Elm Creek substation.	12/31/2016	3/1/2018
200222	30367	50428	ITCGP	ITP	\$1,347,271	ITCGP	Install terminal equipment on the 230 kV side of the Elm Creek substation.	12/31/2016	3/1/2018
200221	30367	50429	WR	ITP	\$66,202,442	WR	Build new 345 kV line from the Summit substation to the ITC Great Plains, LLC interception point from the Elm Creek substation.	12/31/2016	3/1/2018
	30368	50430	WR	ITP	\$11,501,055	WR	Tear down/rebuild 12.3 mile Abilene East - Chapman 115 kV line as single circuit with bundled 1192 ACSR conductor.		
	30368	50431	WR	ITP	\$3,806,178	WR	Tear down/rebuild Abilene East - Abilene Energy Center 115 kV as single circuit with bundled 1192 ACSR conductor.		
	30368	50432	WR	ITP	\$19,949,242	WR	Tear down/rebuild Abilene Energy Center - Northview 115 kV as single circuit with bundled 1192 ACSR conductor.		
	30368	50433	WR	ITP	\$5,131,249	WR	Tear down/rebuild North Street - Northview 115 kV as single circuit with bundled 1192 ACSR conductor.		
	30372	50437	WFEC	ITP	\$16,666,500	SPP	Reconductor Okeene - Dover Switching Station 138 kV to 795 ACSS.		
	30500	50439	MKEC	ITP	\$9,613,332	MKEC	Reconductor 22.1 mile Harper to Milan Tap 138 kV line.		
200253	30374	50440	NPPD	ITP	\$68,774,278	NPPD	Build a new 41-mile 345 kV line from Hoskins to Neligh.	6/1/2016	6/1/2016
200253	30374	50441	NPPD	ITP	\$12,118,564	NPPD	Build new substation at Neligh. Install a new 345/115 kV transformer and all necessary 345 kV equipment at Neligh.	6/1/2016	6/1/2016
200220	30375	50442	NPPD	ITP	\$139,090,440	NPPD	Build new 110-mile 345 kV line from Gerald Gentleman Station substation to new Cherry County substation. This upgrade is contingent upon approval from Western Area Power Administration ("WAPA") to tap the Grand Island - Fort Thompson 345 kV line.	6/1/2018	1/1/2018
200220	30375	50444	NPPD	ITP	\$11,896,383	NPPD	Build new Cherry County 345 kV substation and install necessary terminal equipment. This upgrade is contingent upon approval from WAPA to tap the Grand Island - Fort Thompson 345 kV line.	6/1/2018	1/1/2018
200220	30375	50445	NPPD	ITP	\$146,065,000	NPPD	Build new 117-mile 345 kV line from new Cherry County substation to new Holt County substation. This upgrade is contingent upon approval from WAPA to tap the Grand Island - Fort Thompson 345 kV line.	6/1/2018	1/1/2018
200220	30375	50446	NPPD	ITP	\$16,324,800	NPPD	Build new Holt County 345 kV substation tap on the Grand Island - Fort Thompson 345 kV line owned by WAPA. Install necessary terminal equipment at new substation. This upgrade is contingent upon approval from WAPA to tap the Grand Island - Fort Thompson 345 kV line.	6/1/2018	1/1/2018
200309	30376	50447	SPS	High Priority	\$129,945,941	SPS	Construct new 107-mile 345 kV line from Tuco to Yoakum. Install any necessary 345 kV terminal equipment at Yoakum associated with new 345/230 kV transformer.	6/1/2020	6/1/2020
200309	30376	50451	SPS	High Priority	\$5,047,343	SPS	Install new 345/230 kV 644 MVA transformer at Yoakum substation. Install any necessary 230 kV terminal equipment.	6/1/2020	6/1/2020
200309	30376	50452	SPS	High Priority	\$16,204,449	SPS	Expand existing Hobbs substation to accommodate 345 kV terminals. Install 345/230 kV 644 MVA transformer at Hobbs.	6/1/2018	6/1/2018
200190	805	50453	SPS	Regional Reliability	\$30,851,077	SPS	Build new 38-mile 115 kV line from Bowers Interchange - Howard. At Bowers, install 115 kV breaker positions to serve the new transmission line, converting to a three-breaker ring configuration.	1/14/2016	6/1/2013

	30377	50454	SPS	ITP	\$1,581,080	SPS	Reconductor 1.5 miles line from Indiana to Stanton.		
	30377	50455	SPS	ITP	\$1,604,810	SPS	Reconductor 4 miles from Indiana to SP-Erskine.		
200223	30364	50456	OGE	ITP	\$32,936,400	OGE	Build second circuit of new 16-mile 345 kV line from the new Matthewson substation to Cimarron.	7/1/2016	3/1/2021
200309	30376	50457	SPS	High Priority	\$90,628,750	SPS	Construct new 52-mile 345 kV line from Hobbs to Yoakum.	6/1/2020	6/1/2020
200223	30364	50458	OGE	ITP	\$19,967,850	OGE	Build new Matthewson 345 kV substation at the intersection of the Woodring - Cimarron and Northwest - Tatonga 345 kV lines.	6/1/2017	3/1/2021
	30391	50473	ITCGP	ITP	\$6,000,000	SPP	Install second 345/230 kV 448 MVA Post Rock Transformer		
	30391	50474	TBD	ITP	\$121,500,000	SPP	Build new new 108 miles Mingo - Post Rock and associated terminal equipment		
	30392	50475	TBD	ITP	\$79,875,000	SPP	Build new 71 miles of 345 kV line Iatan - Jeffrey Energy Center and associated terminal equipment		
	30393	50476	TBD	ITP	\$85,840,000	SPP	Build 79 miles of 345 kV Spearville - Mullergren and associated terminal equipment		
	30393	50477	TBD	ITP	\$85,840,000	SPP	Build 79 miles of 345 kV Mullergren - Circle and associated terminal equipment		
	30393	50478	WR	ITP	\$6,519,500	SPP	Build six miles of 345 kV Circle - Reno and associated terminal equipment		
	30394	50479	NPPD	ITP	\$5,625,000	SPP	Build 5 miles of 345 kV Keystone - Ogallala and associated equipment.		
	30394	50480	NPPD	ITP	\$6,000,000	SPP	Install new 345/230 kV 448 MVA Ogallala Transformer		
	30393	50481	MIDW	ITP	\$6,000,000	SPP	Install new 345/230 kV 448 MVA Mullergren Transformer		
	30393	50482	WR	ITP	\$6,000,000	SPP	Install new 345/230 kV 448 MVA Circle Transformer		
	30395	50483	TBD	ITP	\$64,125,000	SPP	Grand Island - Holt Co. rebuild 76 miles of 345 kV		
	30396	50484	NPPD	ITP	\$69,750,000	SPP	Build new 69 miles 345 kV Holt Co. - Shell Creek and associated terminal equipment		
	30396	50485	NPPD	ITP	\$6,000,000	SPP	Install 2nd 345/230 kV MVA Shell Creek Transformer		
	30397	50486	NPPD	ITP	\$30,656,000	NPPD	Build new 16 miles 345 kV Holt - Neligh and associated terminal equipment		
	30398	50487	NPPD	ITP	\$6,000,000	SPP	Install new 345/115 kV 420 MVA Columbus East Transformer		
	30399	50488	NPPD	ITP	\$6,000,000	SPP	Install 2nd 345/230 kV 420 MVA Hoskins Transformer		
	30399	50489	NPPD	ITP	\$6,000,000	SPP	Install 2nd 345/115 420 MVA kV Hoskins Transformer		
	30399	50490	TBD	ITP	\$193,380,000	NPPD/OPPD	Build 120 miles 345 kV new Hoskins - Ft. Calhoun and associated terminal equipment		
	30400	50491	OPPD	ITP	\$46,875,000	SPP	Build new 23 miles 345 kV Ft Calhoun - S3454 and associated terminal equipment		
	30401	50492	TBD	ITP	\$33,126,800	SPP	Build new 28 miles 345 kV Cass Co. - S.W. Omaha (aka S3454) and associated terminal equipment		1/1/2033
	30402	50493	OPPD	ITP	\$12,600,000	SPP	Install 2nd 345/161 kV 560 MVA S3459 transformer		1/1/2033
	30403	50494	SPS	ITP	\$133,875,000	SPP	Build 119 new miles 345 kV Hitchland - Potter Co. and associated terminal equipment		
	30405	50496	WR	ITP	\$54,000,000	SPP	Build 40 miles of 345 kV Wichita-Viola and associated terminal equipment		
	30405	50497	WR	ITP	\$54,000,000	SPP	Build 40 miles of 345 kV Viola-Rose Hill and associated terminal equipment		
200190	30410	50503	SPS	Regional Reliability	\$36,000,000	SPS	Rebuild 49-mile 69 kV line between Bowers and Canadian with 795 ACSR conductor.	1/15/2016	6/1/2012

200262	30420	50513	SPS	Regional Reliability	\$321,786	SPS	Upgrade 800 Amp wave trap at both Bushland Interchange and Deaf Smith Interchange.	6/1/2016	2/1/2014
200214	30423	50516	SPS	ITP	\$4,225,233	SPS	Upgrade Deaf Smith Interchange 230/115 kV transformer Ckt 2 to 250 MVA.	4/1/2016	6/1/2013
200325	30427	50520	SEPC	ITP	\$7,155,709	SEPC	Install a second 345/115 kV transformer at Mingo. Install any necessary 115 kV terminal equipment.	6/1/2016	6/1/2015
200242	30437	50532	WR	ITP	\$20,530,196	WR	Build new Geary County 345/115 kV substation south of Junction City where JEC - Summit 345 kV and McDowell Creek - Junction City #2 115 kV circuits separate. Install 345/115 kV 440 MVA transformer and 115 kV terminal equipment.	6/1/2018	6/1/2014
200241	30438	50533	GRDA	ITP	\$161,100	GRDA	Replace 1200 Amp switch with a 2000 Amp switch at Kerr substation 161 kV bus.	6/1/2017	6/1/2017
200242	30437	50534	WR	ITP	\$27,938,225	WR	Build new 15.1-mile 115kV line between the new Geary County substation and Chapman Tap. 10.4 miles of the line will be built as a 2nd circuit to the existing Summit - McDowell Creek 345 kV line.	6/1/2018	6/1/2014
200241	30440	50535	GRDA	ITP	\$161,100	GRDA	Replace 1200 Amp switch with a 2000 Amp switch at Kansas Tap substation 161 kV bus.	6/1/2018	6/1/2018
200231	30449	50545	AEP	ITP	\$25,060,655	AEP	Rebuild 27.6-mile 138 kV line from Rock Hill to Springridge Pan-Harr REC with 1926.9 ACSR/TW conductor.	6/1/2016	6/1/2014
200214	30451	50546	SPS	ITP	\$20,808,304	SPS	Build new 12-mile 115 kV line from Atoka to Eagle Creek and install necessary terminal equipment.	12/31/2016	6/1/2015
200229	30469	50563	SPS	ITP	\$4,736,510	SPS	Build new 5.3-mile 115 kV line from the switching station east of Kilgore substation to South Portales and install necessary terminal equipment.	3/31/2018	6/1/2018
200229	30469	50564	SPS	ITP	\$9,499,650	SPS	Build new 6-mile 115 kV line from South Portales to Market St. and install necessary terminal equipment.	11/13/2017	6/1/2018
200229	30469	50565	SPS	ITP	\$14,197,378	SPS	Build new 10.4-mile 115 kV line from Market St. to Portales and install necessary terminal equipment.	6/8/2017	6/1/2018
200228	30484	50582	WR	ITP	\$14,331,670	WR	Install new 345/138 kV transformer at Viola substation.	6/1/2019	6/1/2018
200228	30484	50583	WR	ITP	\$35,992,903	WR	Build new 21.8-mile 138 kV line from new Viola substation to Clearwater 138 kV substation.	6/1/2019	6/1/2018
200228	30484	50584	WR	ITP	\$22,234,744	WR	Build new 27.9-mile 138 kV line from new Viola substation to Gill 138 kV substation.	6/1/2019	6/1/2018
200212	30487	50593	WR	ITP	\$767,165	WR	Install 9.6 Mvar capacitor bank at Potwin 69 kV bus.	6/1/2018	6/1/2013
200200	30491	50600	WFEC	Regional Reliability	\$237,000	WFEC	Install two 4.8 Mvar capacitors at Hazelton 69 kV for total of 9.6 Mvar.	4/1/2016	1/1/2013
200242	30437	50605	WR	ITP	\$16,190,561	WR	Install 345 kV ring bus at the new Geary County substation.	6/1/2017	6/1/2014
200210	30494	50606	MIDW	ITP	\$8,922,219	MIDW	Rebuild 3.25-mile 115 kV line from Hays Plant to South Hays.	6/1/2016	6/1/2013
200231	30495	50607	AEP	ITP	\$30,369,537	AEP	Build Messick 500/230 kV substation. Connect to Carrol, Clarence, and Western Kraft 230 kV lines. Install 500/230 kV 675 MVA transformer. This upgrade is contingent upon approval from Cleco Power LLC.	4/1/2016	6/1/2013
200253	30496	50608	NPPD	ITP	\$6,324,098	NPPD	Install new 345/115 kV 400 MVA transformer at Stegall substation and necessary terminal equipment at the 115 kV bus. This upgrade is contingent upon approval from Basin Electric to connect to the Stegall 345 kV substation that they operate.	6/1/2017	6/1/2014

200253	30496	50609	NPPD	ITP	\$26,822,778	NPPD	Install new 22-mile 115 kV line from Stegall to Scottsbluff and install any necessary terminal equipment. This upgrade is contingent upon Basin Electric's approval noted in Upgrade ID 50608.	6/1/2017	6/1/2014
200228	30484	50612	WR	ITP	\$5,007,657	WR	Install 345 kV breakers at Viola substation.	6/1/2019	6/1/2018
200231	30495	50615	AEP	ITP	\$21,508,234	AEP	Install terminal equipment on 500 kV side of new Messick substation. Connect to Mt. Olive - Hartburg 500 kV line. This upgrade is contingent upon approval from Cleco Power LLC for Upgrade ID 50607.	4/1/2016	6/1/2013
200253	30496	50616	NPPD	ITP	\$6,131,545	NPPD	Install any necessary terminal equipment at the 345 kV bus in Stegall substation. This upgrade is contingent upon Basin Electric's approval noted in Upgrade ID 50608.	6/1/2017	6/1/2014
200253	30374	50621	NPPD	ITP	\$17,804,878	NPPD	Install necessary terminal equipment at the 115 kV bus in the new Neligh substation. Construct approximately 18 miles of new 115 kV transmission to tie Neligh East 345/115 kV into the existing 115 kV transmission system	6/1/2016	6/1/2016
200234	30501	50624	WFEC	Regional Reliability	\$3,540,000	WFEC	Build new 12-mile 138 kV line from new Pond Creek substation to Oklahoma Gas and Electric Co. interception point going towards Medford Tap.	4/1/2016	5/1/2013
200234	30502	50626	WFEC	Regional Reliability	\$185,004	WFEC	Install new 138 kV 4.8-Mvar capacitor at Renfrow-Sandridge substation.	6/1/2016	6/1/2017
200234	30503	50628	WFEC	Regional Reliability	\$185,004	WFEC	Install new 69 kV 4.8-Mvar capacitor at Hazelton substation.	4/1/2016	6/1/2017
200264	30508	50635	OGE	Regional Reliability	\$1,720,000	OGE	Rebuild 3.58-mile 138 kV line from Division Ave to Lakeside.	6/1/2019	6/1/2019
200262	30509	50636	SPS	Regional Reliability	\$2,694,811	SPS	Rebuild 3.73-mile 115 kV line from Canyon East Sub to Canyon West Sub with 795 ACSR conductor.	12/31/2017	2/1/2014
200262	30510	50637	SPS	Transmission Service	\$15,473,119	SPS	Construct new 7.7-mile 115 kV line from Mustang to Shell CO2.	6/1/2017	6/1/2015
200314	30526	50657	AEP	ITP	\$12,057,948	AEP	Rebuild 10-mile 69 kV line from Hobart to Roosevelt Tap. Upgrade jumpers, switches, CTs, and relay settings at Hobart.	6/1/2018	6/1/2015
200314	30526	50658	AEP	ITP	\$23,959,143	AEP	Rebuild 18.7-mile 69 kV line from Roosevelt Tap to Snyder. Upgrade jumpers, switches, CTs, and relay settings at Snyder.	6/1/2018	6/1/2015
200256	30552	50690	SPS	ITP	\$1,011,611	SPS	Rebuild 0.5-mile 115 kV line from Oxy Permian Sub to West Bender Sub.	6/1/2018	6/1/2018
200242	30558	50696	WR	ITP	\$6,751,197	WR	Replace the existing Neosho #2 A, B, and C transformers with a single transformer with a minimum emergency rating of 165 MVA. Then, re-terminate the Neosho 138/69 kV #1 transformer from 533020-532793-532824 to 533021-532793-532824. This will move the 138 kV connection of this transformer from the Neosho South 138 kV bus (533020) to the Neosho 138 kV center bus (533021).	6/1/2016	6/1/2014
200246	30559	50697	AEP	ITP	\$6,651,694	AEP	Rebuild 4.4-mile 138 kV line from Chapel Hill REC to Welsh Reserve.	6/1/2019	6/1/2019
200296	30560	50698	WR	ITP	\$51,513,963	WR	Build new 28-mile 138 kV line from Viola to Sumner County.	6/1/2020	6/1/2019
200258	30561	50699	OPPD	ITP	\$4,426,730	OPPD	Install new 161/69 kV auto transformer including any necessary 69 kV terminal equipment.	6/1/2016	6/1/2016

200245	30563	50702	WFEC	ITP	\$504,000	WFEC	Add 20 Mvar of capacitance at Sandy Corner 138 kV.	6/1/2016	6/1/2017
200242	30568	50706	WR	ITP	\$1,390,166	WR	Install 10.8-Mvar capacitor bank at Clay Center Switching Station (Bus No. 533320).	6/1/2018	6/1/2016
200309	30569	50709	SPS	High Priority	\$9,350,766	SPS	Construct new 230 kV Road Runner substation, tapping the existing 115 kV line from Red Bluff to Agave Hills. Construct substation to accommodate future 345 kV line terminal from Potash Junction. Install new 230/115 kV 288 MVA transformer at new Road Runner substation. Install any necessary terminal equipment.	10/27/2015	6/1/2015
	30570	50710	WR	Regional Reliability	\$6,564,395		Rebuild 3.54-mile 69 kV line between Allen and Ena.		
	30570	50714	WR	Regional Reliability	\$8,030,484		Rebuild 8.6-mile 69 kV line between Coal Creek and Tioga.		
200246	30573	50718	AEP	ITP	\$6,695,986	AEP	Rebuild 1.7-mile 69 kV line from Fort Humbug to Broadmoor with 1233.6 ACSR/TW conductor. Upgrade jumpers at Fort Humbug along with jumpers and bus at Broadmoor.	6/1/2019	6/1/2019
200246	30574	50719	AEP	ITP	\$2,819,806	AEP	Rebuild 1.3-mile 69 kV line from Daingerfield to Jenkins REC T with 959.6 ACSR/TW conductor.	6/1/2019	6/1/2019
200246	30575	50720	AEP	ITP	\$8,851,677	AEP	Rebuild 6.6-mile 69 kV line from Longview Heights to Hallsville with 1233.6 ACSR/TW conductor. Upgrade jumpers, CT ratios, and relay settings at Longview Heights.	6/1/2018	6/1/2014
200246	30576	50721	AEP	ITP	\$15,248,925	AEP	Rebuild 11.2-mile 69 kV line from Hallsville to Marshall with 1233.6 ACSR/TW conductor. Upgrade jumpers, CT ratios, and relay settings at Marshall.	6/1/2018	6/1/2014
200256	30577	50722	SPS	ITP	\$5,961,279	SPS	Rebuild 5-mile 69 kV line from Chaves to Price converting to 115 kV. Install any necessary terminal equipment at Chaves.	12/30/2017	6/1/2017
200256	30577	50723	SPS	ITP	\$3,793,668	SPS	Rebuild 3-mile 69 kV line from CV Pines to Price converting to 115 kV.	12/30/2017	6/1/2017
200256	30577	50724	SPS	ITP	\$3,793,053	SPS	Rebuild 5-mile 69 kV line from Capitan to CV Pines converting to 115 kV.	12/30/2017	6/1/2017
200333	30578	50725	SPS	ITP	\$8,208,578	SPS	Build new 9.4-mile 115 kV line from Bailey Co. to Bailey Co. Pump. Install any necessary terminal equipment at Bailey Co.	9/1/2018	6/1/2016
200242	30579	50726	WR	ITP	\$5,226,656	WR	Rebuild 9.06-mile 69 kV line from Wellington to Sumner County No. 4 Rome with single 1192 ACSR conductor to achieve 1200 Amp minimum ampacity.	6/1/2016	6/1/2014
200333	30578	50729	SPS	ITP	\$8,038,605	SPS	Build new 11.7-mile 115 kV line from Bailey Co. Pump to Sundan Rural and convert high side voltage of the distribution transformers at Bailey Co. Pump and Sundan Rural from 69 kV to 115 kV.	9/1/2018	6/1/2016
200333	30578	50731	SPS	ITP	\$5,367,770	SPS	Install new 115/69 kV 84 MVA transformer at New Amherst. Install any necessary 69 kV terminal equipment.	9/1/2018	6/1/2016
200333	30578	50732	SPS	ITP	\$5,074,202	SPS	Build new 8.6-mile 115 kV line from New Amherst to Sudan Rural.	9/1/2018	6/1/2016
200242	30580	50733	WR	ITP	\$7,633,477	WR	Rebuild 1.74-mile 69 kV line from Kenmar to Northeast with single 1192 ACSR to achieve 1200 Amp minimum ampacity.	6/1/2017	6/1/2014
200333	30578	50734	SPS	ITP	\$3,028,707	SPS	Install 115 kV terminal equipment at New Amherst to accommodate new 115/69 kV transformer.	9/1/2018	6/1/2016

200333	30578	50735	SPS	ITP	\$16,737,611	SPS	Build new 13.9-mile 115 kV line from Lamb Co. to New Amherst. Convert high side voltage of the West Littlefield distribution transformer from 69 kV to 115 kV.	9/1/2018	6/1/2016
200333	30578	50736	SPS	ITP	\$3,187,532	SPS	Build new 8.6-mile 115 kV line from West Littlefield to West Littlefield Tap. Install necessary terminal equipment at West Littlefield.	9/1/2018	6/1/2016
200247	30582	50738	OGE	ITP	\$740,254	OGE	Install a 9-Mvar capacitor bank at 69 kV at Wildhorse substation.	6/1/2017	6/1/2017
200242	30584	50739	WR	ITP	\$19,943,188	WR	Rebuild 9.7-mile 69 kV line from Elk Junction to Montgomery to achieve new emergency rating of 72 MVA.	12/1/2017	6/1/2018
200242	30584	50740	WR	ITP	\$23,820,104	WR	Rebuild 18.8-mile 69 kV line from Elk Junction to Sedan to achieve new emergency rating of 72 MVA.	12/1/2018	6/1/2018
200320	30588	50745	OPPD	ITP	\$2,416,277	OPPD	Install new 161/69 kV transformer at Fremont to accommodate a new 161 kV interconnection.	10/1/2018	6/1/2016
200320	30588	50746	OPPD	ITP	\$3,606,519	OPPD	Build new 3-mile 69 kV line from Fremont to new substation S6801.	10/1/2018	6/1/2016
200320	30588	50747	OPPD	ITP	\$29,069,150	OPPD	Build new 17-mile 161 kV line from S1226 to new substation S1301.	10/1/2018	6/1/2016
200258	30590	50748	OPPD	ITP	\$1,360,327	OPPD	Rebuild 1.34-mile 69 kV line from S906 to S924 to achieve a new emergency rating of 143 MVA.	6/1/2018	6/1/2019
200258	30590	50749	OPPD	ITP	\$69,679	OPPD	Install terminal upgrades at S924 to increase emergency rating of S924 - S912 69 kV Ckt 1 to 99 MVA.	6/1/2018	6/1/2019
200256	856	50754	SPS	ITP	Cost included in UID 11127 estimate	SPS	Convert distribution transformer high side at Hereford from 69 kV to 115 kV.	12/31/2016	6/1/2014
200294	30596	50757	NPPD	ITP	\$32,618,819	NPPD	Build a new 35-mile 115 kV line from Ord to Broken Bow Wind and install necessary terminal equipment.	3/1/2018	6/1/2014
200270	30597	50758	OGE	ITP	\$4,009,000	OGE	Build new Lane 138 kV substation adjacent to existing Knobhill substation. Install a new 138 kV terminal at Knobhill. Tie the Knobhill and Lane substations together with one span of 138 kV line. Build new 1.5-mile 138 line from Lane to Noel. Install fiber optics on 138 kV circuit connecting Knobhill to Lane to Noel.	12/1/2016	6/1/2019
200246	30598	50759	AEP	ITP	\$1,600,349	AEP	Install 16.2-MVAR 69 kV capacitor bank at Letourneau.	6/1/2017	6/1/2017
200294	30596	50760	NPPD	ITP	\$362,040	NPPD	Increase line clearance on 115 kV line from North Loup to Ord to 100 degree C. Upgrade disconnect switches, CTs, and jumpers at North Loup.	6/1/2018	6/1/2014
200258	30561	50761	OPPD	ITP	\$422,270	OPPD	Install 161 kV terminal equipment at S1366 for new 161/69 kV transformer.	6/1/2016	6/1/2016
200299	30581	50763	OGE	ITP	\$5,693,264	OGE	Convert existing 4.32-mile 69 kV line from Ahloso to Park Lane to 138 kV.	6/1/2016	6/1/2015
200299	30581	50764	OGE	ITP	\$6,929,179	OGE	Convert existing 10.12-mile 69 kV line from Ahloso to Harden City to 138 kV.	6/1/2016	6/1/2015
200299	30581	50765	OGE	ITP	\$2,121,320	OGE	Convert existing 3.39-mile 69 kV line from Harden City to Frisco to 138 kV.	6/1/2017	6/1/2015
200299	30581	50766	OGE	ITP	\$6,749,202	OGE	Convert existing 3.39-mile 69 kV line from Frisco to Lula to 138 kV.	12/30/2016	6/1/2015
200255	30361	50768	AEP	ITP	\$5,326,722	AEP	Install approximately 2 miles of 230 kV transmission line for a cut-in to existing 230 kV line from Sweetwater to Elk City, creating termination points at new Chisholm substation.	3/1/2018	3/1/2018

	30599	50769	AEP	ITP	\$12,600,000	SPP	Install new 345/161 kV Transformer at South Fayetteville.		1/1/2033
	30599	50770	TBD	ITP	\$21,295,800	SPP	Build new 345 kV line from Chamber Springs to South Fayetteville and associated terminal equipment.		1/1/2033
	30600	50771	GMO	ITP	\$12,600,000	SPP	Install new 345/161 transformer at Maryville.		1/1/2033
	30601	50772	KCPL	ITP	\$12,600,000	SPP	Increase rating of Nashua transformer to 650/715 MVA.		1/1/2033
	30602	50773	TBD	ITP	\$130,141,000	SPP	Build new 110 mile 345 kV line from Keystone to Red Willow and associated terminal equipment.		1/1/2033
	30603	50774	TBD	ITP	\$75,718,400	SPP	Build new 64 mile 345 kV line from Tolk to Tuco and associated terminal equipment.		1/1/2033
	30604	50775	SEPC	ITP	\$12,600,000	SPP	Install 2nd 345/115 kV transformer at Holcomb.		1/1/2033
	30605	50776	TBD	ITP	\$117,126,900	SPP	Build new 99 mile 345 kV line from Neosho to Wolf Creek and associated terminal equipment.		1/1/2033
	30606	50777	TBD	ITP	\$15,701,325	SPP	Rebuild 29 mile 161 kV line from Clinton to Truman.		1/1/2033
	30606	50778	TBD	ITP	\$1,082,850	SPP	Rebuild 2 miles of 161 kV line from North Warsaw to Truman.		1/1/2033
	30608	50779	WR	ITP	\$12,600,000	SPP	Install new 345/115 kV transformer at Auburn.		1/1/2033
	30608	50780	TBD	ITP	\$20,112,700	SPP	Convert 17 mile Auburn - Swissvale 230 kV line to a 345 kV line.		1/1/2033
	30608	50781	TBD	ITP	\$35,493,000	SPP	Convert the 30 mile Auburn - Jeffrey EC 230 kV to 345 kV.		1/1/2033
	30607	50782	OGE	ITP	\$34,605,675	SPP	Upgrade terminal equipment at Muskogee and Pecan Creek substations to increase Muskogee - Pecan Creek 345 kV Ckts 1 & 2 ratings to 1195/1195 MVA.		1/1/2033
200258	30609	50783	OPPD	ITP	\$3,141,600	OPPD	Rebuild 3.3-mile 69 kV line from S907 to S919 to achieve a new emergency rating of 143 MVA.	6/1/2019	6/1/2019
200269	30612	50786	OGE	Transmission Service	\$1,131,409	OGE	Reconductor 1.25-mile 138 kV line from Hefner to Tulsa with 1590 AS52 conductor.	6/1/2019	6/1/2019
200256	30616	50794	SPS	ITP	\$813,381	SPS	Install two 115 kV breakers at Curry County Interchange to convert the high side of the Curry County distribution transformer to 115 kV.	6/1/2018	6/1/2018
200310	30619	50802	AEP	High Priority	\$11,652,107	AEP	Construct AEP's portion of new 25-mile 138 kV line from Darlington to Roman Nose (OGE).	12/31/2016	6/1/2015
	30621	50804	GRDA	Regional Reliability			Restore Kinziegr4 to 19St rating - from 120/120 Mvar to original rating of 203/238 Mvar		
200311	30622	50805	OGE	High Priority	\$12,767,120	OGE	Construct new 138 kV SW Station switching station. Construct new 13-mile 138 kV line from new SW Station switching station to Warwick Tap.	6/1/2016	6/1/2018
200311	30622	50806	OGE	High Priority	\$9,899,440	OGE	Construct new 18-mile 138 kV line from Linwood to new SW Station switching station.	6/1/2018	6/1/2018
200311	30622	50807	OGE	High Priority	\$8,218,020	OGE	Construct new 5-mile 138 kV line from Knipe to new SW Station switching station.	6/1/2018	6/1/2018
	30626	50811	OGE	Regional Reliability			Switch In-Service 69kV line between Plcntrt and Cushoil		
200284	30628	50813	WFEC	High Priority	\$237,000	WFEC	Install new 9.6-Mvar capacitor bank at Freedom 69 kV.	6/1/2015	6/1/2015
200309	30638	50819	SPS	High Priority	\$19,255,234	SPS	Construct new 18.2-mile 345 kV line from North Loving to China Draw.	6/1/2018	6/1/2018
200309	30638	50820	SPS	High Priority	\$25,716,516	SPS	Construct new 20.4-mile 345 kV line from new Kiowa substation to North Loving.	6/1/2018	6/1/2018
200282	30824	50821	SPS	High Priority	\$3,508,346	SPS	Upgrade 230/115 kV transformer at Potash Junction to 250 MVA.	4/15/2016	6/1/2015

200335	30644	50827	MKEC	High Priority	\$12,838,896	MKEC	Construct new 21-mile 138 kV line from Anthony to Harper.	2/18/2018	6/1/2018
200276	30645	50828	MKEC	High Priority	\$12,790,167	MKEC	Construct new 15-mile 138 kV line from Harper to new Rago substation.	12/31/2017	6/1/2015
200287	30661	50835	WFEC	High Priority	\$2,068,000	WFEC	Install any necessary 138 kV terminal equipment at Carmen associated with new 138/69 kV transformer.		6/1/2016
200243	30656	50839	OGE	Generation Interconnection	\$3,033,890	GEN-2012-040 GIA, SA2647 effective 12/17/13	138 kV Work near Chilocco Substation; One (1) in-line transmission tap and dead-end structure to accept the Interconnection Customer's overhead transmission line.; Revenue metering and Communications	3/31/2015	3/31/2015
200309	30638	50849	SPS	High Priority	\$4,649,045	SPS	Install new 345/115 kV 448 MVA transformer at new China Draw substation. Install any necessary 115 kV terminal equipment and ring/breaker and a half 115 kV bus for 4 line or transformer terminals.	6/1/2018	6/1/2018
200309	30638	50850	SPS	High Priority	\$4,172,734	SPS	Construct 345 kV ring bus, expandable to breaker and a half for 6 line or transformer terminals at China Draw.	6/1/2018	6/1/2018
200309	30637	50851	SPS	High Priority	\$11,249,526	SPS	Construct new Kiowa 345 kV substation adjacent to Potash Junction. 345 kV bus will be ring, expandable to minimum 6 line or transformer terminals. Install terminal equipment as needed.	6/1/2018	6/1/2018
200309	30638	50852	SPS	High Priority	\$5,950,217	SPS	Install new 345/115 kV 448 MVA transformer at new North Loving substation. Install any necessary 115 kV terminal equipment.	6/1/2018	6/1/2018
200309	30638	50854	SPS	High Priority	\$7,873,653	SPS	Install 345 kV line terminals at North Loving substation for Kiowa and China Draw. Install any necessary 345 kV terminal equipment necessary to install 345/115 kV 448 MVA transformer at North Loving.	6/1/2018	6/1/2018
200287	30661	50855	WFEC	High Priority	\$2,475,000	SPP	Install new 138/69 kV 70 MVA transformer at Carmen substation. Install any necessary 69 kV terminal equipment.		6/1/2016
200287	30661	50856	WFEC	High Priority	\$2,680,000	SPP	Install new 138/69 kV 70 MVA transformer at new Cherokee Junction Tap substation. Install any necessary 69 kV terminal equipment.		6/1/2016
200287	30661	50857	WFEC	High Priority	\$6,300,000	WFEC	Tear down the existing 69 kV line from Cherokee Junction to Carmen. Construct new 11.5-mile 138 kV line Cherokee Junction Tap to Carmen.		6/1/2016
200309	30639	50862	SPS	High Priority	\$3,989,689	SPS	Install new 345/115 kV 448 MVA transformer at new Road Runner substation. Install any necessary 115 kV terminal equipment.	6/1/2016	6/1/2018
200309	30639	50863	SPS	High Priority	\$11,569,711	SPS	Convert 230 kV Road Runner substation to 345 kV. Install any necessary 345 kV terminal equipment.	6/1/2016	6/1/2018
200324	30666	50864	SPS	ITP	\$25,925,187	SPS	Install new -50/+200 MVAR SVC at China Draw 115 kV substation.	4/1/2016	4/1/2015
200309	30639	50868	SPS	High Priority	\$5,443,140	SPS	Install 345/115 kV 448 MVA transformer at Kiowa substation.	6/1/2018	6/1/2018
200282	30675	50869	SPS	High Priority	\$14,583,586	SPS	Construct new 18.4-mile 115 kV line from China Draw to new Yeso Hills substation.	6/1/2018	6/1/2018
200309	30639	50871	SPS	High Priority	\$2,176,451	SPS	Construct 1-mile of double circuit structures from the new Kiowa substation to Potash Junction. Construct Circuit 1 with 345 kV conductor and Circuit 2 with 115 kV conductor.	6/1/2018	6/1/2018
200282	30672	50872	SPS	High Priority	\$822,700	SPS	Construct new 115 kV Toboso Flats substation. Install any necessary 115 kV terminal equipment.	6/1/2018	6/1/2018

200282	30672	50874	SPS	High Priority	\$5,062,341	SPS	Construct new 7.4-mile 115 kV line from new Toboso Flats substation to Dollarhide.	6/1/2018	6/1/2018
200309	30637	50875	SPS	High Priority	\$59,808,956	SPS	Construct new 47.2-mile 345 kV line from Kiowa to Hobbs.	6/1/2018	6/1/2018
200282	30694	50877	SPS	High Priority	\$996,485	SPS	Construct new 115 kV Ponderosa substation. Install any necessary 115 kV terminal equipment.	6/1/2017	6/1/2018
200282	30694	50879	SPS	High Priority	\$4,174,446	SPS	Tap the existing 115 kV line from Ochoa to Whitten to construct new 115 kV Ponderosa Tap substation. Install any necessary 115 kV terminal equipment.	6/1/2017	6/1/2018
	30673	50880	SPS	Regional Reliability	\$2,080,662	SPP	Construct new 2.8-mile 115 kV line from Mustang to El Paso.		
200282	30649	50881	SPS	High Priority	\$10,671,660	SPS	Install new 230/115 kV 288 MVA transformer at Andrews substation. Install any necessary terminal equipment.	4/4/2016	6/1/2015
200282	30649	50882	SPS	High Priority	\$3,523,472	SPS	Construct new 2.1-mile 115 kV line from Andrews to National Enrichment Facility (NEF).	4/4/2016	6/1/2015
	30676	50884	SEPC	Regional Reliability			Install new 138/115 kV 250 MVA transformer at Hazelton substation.		
200287	30661	50888	WFEC	High Priority	\$3,945,000	SPP	Tap the existing 138 kV line from Noel Switch to Cherokee City to construct the new Cherokee Junction Tap substation. Install any necessary 138 kV terminal equipment.		6/1/2016
200277	30678	50889	NPPD	High Priority	\$9,306,000	NPPD	Install new 345/115 kV 400 MVA transformer at Thedford substation. Install any necessary 115 kV terminal equipment.	6/1/2018	6/1/2016
	30740	50906	SPS	Regional Reliability	\$10,516,124	SPP	Install 3rd 345/230 kV 560 MVA transformer at Tuco. Expand 345 and 230 kV buses to for additional terminals for transformer.		
	30684	50911	AEP	Regional Reliability			Rokhill Transformer: Match the Rokhill transformer Ckt 2 to the transformer Ckt 1 to have the rating of 93/103 MVA		
	30685	50912	GRDA	Regional Reliability			Add 14..4 MVAR cap bank to the GLENCOE AECE 301425 to support the 17 MVAR load		
200313	30688	50915	OGE	ITP	\$89,100	OGE	Upgrade CTs and wave trap from 1200 A to 1600 A at Park Lane 138 kV to achieve a new emergency rating of 290 MVA on the 138 kV line from Park Lane to Seminole.	6/1/2016	6/1/2015
	30823	50917	SPS	Regional Reliability	\$8,116,056	SPP	Construct new 11-mile 115 kV line from Hopi Sub to Pecos.		
200282	30694	50923	SPS	High Priority	\$5,404,344	SPS	Construct new 9.3-mile 115 kV line from new Ponderosa substation to new Ponderosa Tap substation.	6/1/2017	6/1/2018
200309	30695	50924	SPS	High Priority	\$4,950,983	SPS	Convert Livingston Ridge from 69 kV to 115 kV. Install any necessary 115 kV terminal equipment.	6/1/2018	6/1/2018
200309	30695	50925	SPS	High Priority	\$3,822,672	SPS	Construct new 115 kV Sage Brush substation with 3 ring bus configuration. Install any necessary 115 kV terminal equipment.	6/1/2018	6/1/2018
200309	30695	50926	SPS	High Priority	\$8,811,206	SPS	Construct new 13.9-mile 115 kV line from Livingston Ridge to new Sage Brush substation.	6/1/2018	6/1/2018
200309	30695	50927	SPS	High Priority	\$1,200,057	SPS	Construct new 115 kV Lagarto substation. Install any necessary 115 kV terminal equipment.	6/1/2018	6/1/2018
200309	30695	50928	SPS	High Priority	\$6,186,323	SPS	Construct new 10.4-mile 115 kV line from new Lagarto substation to new Sage Brush substation.	6/1/2018	6/1/2018
200282	30825	50931	SPS	High Priority	\$15,469,235	SPS	Construct new 14-mile 115 kV line from China Draw to Wood Draw.	6/15/2017	6/1/2018

	30667	50932	SPS	Regional Reliability	\$4,980,233	SPP	Construct third 5.4-mile 230 kV line from Jones to Lubbock South.		
	30660	50933	SPS	Regional Reliability	\$9,438,433	SPP	Reconductor 20.5-mile 115 kV line from Terry County to Wolfforth to achieve a rating of 276/304 MVA.		
	30823	50934	SPS	Regional Reliability	\$5,164,763	SPP	Construct new 7-mile 115 kV line from North Loving to South Loving Tap 115 kV substation.		
200309	30695	50951	SPS	High Priority	\$6,115,613	SPS	Construct new 115 kV Cardinal substation. Install any necessary 115 kV terminal equipment.	6/1/2018	6/1/2018
200324	30914	50952	SPS	ITP	\$5,846,342	SPS	Rebuild 9.5-mile 115 kV line from Livingston Ridge to IMC #1 Tap.	11/16/2018	6/1/2015
200324	30914	50955	SPS	ITP	\$3,943,853	SPS	Reconductor 5.9-mile 115 kV line from Ponderosa Tap to Whitten.	5/31/2017	6/1/2015
200324	30914	50957	SPS	ITP	\$3,196,240	SPS	Rebuild 1.5-mile 115 kV line from Intrepid West Tap to Potash Junction.	11/16/2018	6/1/2015
200324	30914	50958	SPS	ITP	\$3,121,473	SPS	Rebuild 3.9-mile 115 kV line from Intrepid West Tap to IMC #2.	11/16/2018	6/1/2015
	30711	50959	SPS	Regional Reliability	\$4,732,597	SPP	Reconductor line - 5.16 miles, 230kV - Sundown to Amoco to be rated 478/502 MVA		
	30711	50960	SPS	Regional Reliability	\$6,020,434	SPP	Increase Sundown 230/115 kV transformer to 250 MVA		
	30641	50963	SEPC	Regional Reliability			Replace CT settings, relays, and bus connection to achieve 154.6/189.2 MVA rating on the 115 kV line from Garden City to Holcomb.		
	30714	50964	SEPC	Regional Reliability			Manning 3 MVAR Capacitor: New 3 MVAR cap bank at Manning 115 kV, mitigates Category B undervoltage issues in area		
	30716	50966	NPPD	Regional Reliability			Fullerton - PS24 115 kV line: This would include the addition of a new 15 mile Fullerton - PS24 115 kV line rated at 160 MVA. This project is needed to address low voltage issues in the Clarks/Central City area and post-contingent overloading of the Columbus - Silver Creek 115 kV line for the Central City - Grand Island contingency.		
200309	30695	50967	SPS	High Priority	\$9,244,612	SPS	Construct new 17.5-mile 115 kV line from Lagarto to Cardinal.	6/1/2018	6/1/2018
	30724	50973	OPPD	Regional Reliability			Rebuild S906 N to S928: Rebuild of 69 kV S906 N to S928 line to prevent overload with outage of S921 to S942 69 kV line		
	30725	50974	OPPD	Regional Reliability			Rebuild line JCT205 to S901: Increase rating to 85 MVA to prevent loading violation under category B		
	30725	50975	OPPD	Regional Reliability			Rebuild line JCT205 to S910: Increase rating to 85 MVA to prevent loading violation under category B		
	30726	50976	OPPD	Regional Reliability			S907 to S919 Rebuild: Rebuild 69 kV line from S907 to S919 with new rating of 143 MVA to prevent overload under multiple category B		
200282	30675	50988	SPS	High Priority	\$1,046,485	SPS	Construct new 115 kV Yeso Hills substation. Install any necessary 115 kV terminal equipment.	6/1/2018	6/1/2018
	30730	50989	SPS	Regional Reliability			Install new two stages of 14.4 MVAR capacitor banks at proposed Wolves 115 kV delivery point.		
200275	30732	50991	MKEC	High Priority	\$10,506,358	MKEC	Construct new 8-mile 138 kV line from Anthony to Bluff City.	2/18/2018	6/1/2015
200297	30755	50992	SPS	Transmission Service	\$3,927,000	SPP	Upgrade 230/115 kV transformer at Tuco to 288 MVA.	6/1/2018	6/1/2019

200335	30732	50993	MKEC	High Priority	\$12,377,785	MKEC	Construct new 46-mile 138 kV line from Bluff City to Caldwell.	2/18/2018	6/1/2015
200335	30732	50994	MKEC	High Priority	\$8,939,236	MKEC	Construct new 16-mile 138 kV line from Caldwell to Mayfield.	2/18/2018	6/1/2015
200335	30732	50995	MKEC	High Priority	\$11,441,814	MKEC	Construct a new 3-way switch at Milan. Construct new 5-mile 138 kV line from Mayfield to new switch at Milan. Install new 3-breaker ring bus at Viola 138 kV substation. Tap existing 138 kV line from Milan to Milan Tap approximately 0.25 miles from the Viola substation and terminate both end points at Viola.	2/18/2018	6/1/2015
200277	30678	51002	NPPD	High Priority	\$930,800	NPPD	Install any necessary 345 kV terminal equipment at Thedford associated with new 345/115 kV transformer.	6/1/2018	6/1/2016
	30749	51016	AEP	Regional Reliability	\$6,453,893	SPP	Construct new 8.6-mile 138 kV line from Grady to Lindsay Water Flood.		
200271	30597	51030	WFEC	ITP	\$450,000	WFEC	Install fiber optics on existing 138 kV line from Noel to Knobhill. Install a new 138 kV breaker and metering equipment at Noel to accommodate new circuit from new Lane substation.	6/1/2019	6/1/2019
	30760	51031	WFEC	Regional Reliability	\$300,000	WFEC	Install new 6 MVAR capacitor bank at Lindsay 69 kV substation.	3/25/2016	
200298	30761	51033	AEP	Transmission Service	\$6,566,218	AEP	Rebuild 2.3 miles of 138 kV 954 ACSR conductor with 1590 ACSR conductor from Cedar Grove to South Shreveport. Replace breaker, switches, and jumpers at South Shreveport. Replace switch at Cedar Grove.	6/1/2020	6/1/2020
200339	30762	51034	AEP	Regional Reliability	\$6,629,465	AEP	Rebuild existing 3.2-mile 69 kV line from Ellerbe Road to Lucas.	3/1/2019	3/1/2019
200339	30762	51035	AEP	Regional Reliability	\$652,658	AEP	Replace jumpers at 69 kV substations Ellerbe Road and Lucas. Replace relay panel at Ellerbe Road. Change relay setting at Lucas.	3/1/2019	3/1/2019
	30763	51036	OGE	Generation Interconnection	\$2,707,042	Estimate from GIA for GEN-2007-062 (SA 2068R2)	345kV line terminal including two (2) 345kV circuit breakers, line relaying, disconnect switches, and associated equipment	9/2/2016	
200262	30766	51039	SPS	Transmission Service	\$3,632,101	SPS	Upgrade Yoakum County Interchange Ckt 1 230/115 kV transformer to 250 MVA.	6/1/2019	6/1/2019
200286	30771	51048	MIDW	High Priority	\$4,477,251	MIDW	Tap existing 115 kV line from Kanarado (Sunflower) to Sharon Springs to construct new Midwest Pump Tap substation.	7/2/2016	6/1/2015
200286	30771	51049	MIDW	High Priority	\$2,443,469	MIDW	Build new 5-mile 115 kV line from Midwest Pump to the new Midwest Pump Tap substation.	7/2/2016	6/1/2015
200262	30766	51050	SPS	Regional Reliability	\$3,432,506	SPS	Upgrade Yoakum County Interchange Ckt 2 230/115 kV transformer to 250 MVA.	6/1/2019	6/1/2019
	30781	51051	NPPD	Generation Interconnection	\$5,950,000	GIA for GEN-2008-123N (SA 2252R1)	115kV Substation addition to accommodate new 115kV interconnection & 115kV breakers at Guide Rock due to addition of Rosemont 115kV Substation	12/31/2016	
200314	30803	51089	AEP	ITP	\$22,967,874	AEP	Rebuild Grand Saline - Mineola 69 kV line, and upgrade jumpers, switches, CTs, and relay settings at both substations.	6/1/2020	4/1/2020
200326	30817	51109	SPS	Regional Reliability	\$9,287,857	SPS	Rebuild 13.7-mile 115 kV line from Canyon West to Dawn.	4/1/2018	4/1/2018
200326	30817	51110	SPS	Regional Reliability	\$5,303,069	SPS	Rebuild 8.4-mile 115 kV line from Dawn to Panda.	4/1/2018	4/1/2018
200326	30817	51111	SPS	Regional Reliability	\$3,304,643	SPS	Rebuild 3.5-mile 115 kV line from Deaf Smith to Panda.	4/1/2018	4/1/2018

200297	30820	51112	SPS	Transmission Service	\$362,250	SPS	Replace the wave trap at Carlisle substation. Replace the wave trap on the Carlisle line terminal at Tuco substation.	9/1/2016	10/1/2015
200311	30619	51117	OGE	High Priority	\$12,701,091	OGE	Construct OGE's portion of new 138 kV line from Darlington (AEP) to Roman Nose.	12/31/2016	6/1/2015
	30829	51123	SPS	Regional Reliability			Install 57.6 Mvar capacitor bank at XIT Interchange 230 kV bus.		
	30829	51124	SPS	Regional Reliability			Construct new 50-mile 230 kV line from XIT Interchange to Moore County.		
	30829	51125	SPS	Regional Reliability			Install 230/115 kV CKT 2 transformer at XIT Interchange.		
200307	30839	51127	OPPD	Regional Reliability		OPPD	Accelerate the rebuild of 1.34-mile 69 kV line from S906 to S924 to achieve a new emergency rating of 143 MVA.	6/1/2018	6/1/2018
200307	30839	51128	OPPD	Regional Reliability		OPPD	Accelerate the installation of terminal upgrades at S924 to increase emergency rating of S924 - S912 69 kV Ckt 1 to 99 MVA.	6/1/2018	6/1/2018
	30832	51129	SPS	Regional Reliability			Install new 14.4 MVAR capacitor bank at Ochoa 115 kV.		
	30833	51130	SPS	Regional Reliability			Install new 50 MVAR capacitor bank at Pecos 230 kV.		
200324	30914	51131	SPS	ITP	\$3,163,083	SPS	Rebuild 3.8-mile 115 kV line from Monument Tap to Byrd Tap.	11/16/2018	6/1/2015
200324	30666	51132	SPS	ITP	\$28,918,070	SPS	Install new -50/+200 MVAR SVC at the Road Runner 115 kV substation.	4/1/2016	4/1/2015
200330	30838	51133	OPPD	ITP	\$6,588,939	OPPD	Install new 345/161 kV transformer at Sub 3459. Install any necessary 161 kV terminal equipment.	6/1/2019	6/1/2019
200330	30838	51136	OPPD	ITP	\$3,604,757	OPPD	Install any 345 kV terminal equipment required for new 345/161 kV transformer at Sub 3459.	6/1/2019	6/1/2019
200329	30841	51137	OGE	ITP		SPP	Reconductor 5.3-mile 138 kV line from Anadarko to Gracemont.		4/1/2019
200329	30843	51139	OGE	ITP	\$1,500,000	SPP	Upgrade CT and wavetrap at both Cimarron and Draper 345 kV substations to increase the rating of the 345 kV line from Cimarron to Draper.	4/1/2019	4/1/2019
200332	30844	51140	SPS	ITP	\$411,000	SPS	Upgrade wave traps at Sundown and Amoco to increase the rating of the 230 kV line from Amoco to Sundown.	4/1/2019	1/1/2019
200327	30847	51144	AEP	ITP	\$18,553,018	AEP	Rebuild 11.2-mile 138 kV line from South Shreveport to Wallace Lake. Upgrade wavetrap and conductor at South Shreveport.	6/1/2019	6/1/2019
200316	30848	51146	GRDA	ITP	\$11,200	GRDA	Replace CT at Claremore to increase the rating of the 161 kV line from Claremore to GRDA 1.	6/1/2018	6/1/2018
	30835	51147	SPS	Regional Reliability	\$5,110,000	SPP	Install a second 345/115 kV transformer at Road Runner. Install any necessary 115 kV terminal equipment.		6/1/2019
	30849	51148	NPPD	ITP	\$29,610,781	SPP	Rebuild 39.4-mile 115 kV from North Platt to Stockville to achieve a new emergency rating of 240 MVA.	1/1/2019	1/1/2019
	30849	51149	NPPD	ITP	\$16,665,000	SPP	Rebuild 21-mile 115 kV from Red Willow to Stockville to achieve a new emergency rating of 240 MVA.	1/1/2019	1/1/2019
200328	30850	51151	KCPL	ITP	\$3,263,000	KCPL	Install any terminal upgrades required at Iatan to convert existing 18.2-mile 161 kV line from Iatan to Stranger Creek to 345 kV operation.	1/1/2019	1/1/2019
	30851	51152	SPS	ITP	\$3,411,800	SPP	Install a second 230/115 kV transformer at Plant-X.		6/1/2022

	30854	51156	WR	ITP	\$7,686,209	SPP	Rebuild 3.1-mile 115 kV line from Forbes to Underpass North using single 1192.5 ACSR conductor to achieve a new emergency rating of 262 MVA. Rebuild Underpass 115 kV substation with ring bus breaker configuration and new 2000 A terminal equipment.		6/1/2021
	30855	51157	WR	ITP	\$6,033,488	SPP	Rebuild 6.3-mile 138 kV line from Murray Gill East Energy Center to Interstate to achieve new emergency rating of 286 MVA. Replace jumpers at Interstate and Murray Gill East Energy Center.		6/1/2024
	30856	51158	SPS	ITP	\$7,789,804	SPP	Tap the existing Northwest to Bush 115kV line approximately 2 miles from Northwest substation to create new Bush Tap substation. Build new 3-mile 115 kV line from Bush Tap to Hastings with 795 ACSS conductor.		6/1/2022
	30857	51159	WR	ITP	\$9,974,068	SPP	Add four (4) new 345 kV terminals to the Moundridge substation, configured in a ring bus breaker scheme. Tap the existing 345 kV line from Reno County to Wichita and terminate both ends into new 345 kV terminals at Moundridge. Install any necessary 345 kV terminal equipment.		6/1/2024
	30857	51161	WR	ITP	\$4,389,083	SPP	Install a new 345/138 kV transformer at at Moundridge. Install any necessary 115 kV terminal equipment.		6/1/2024
	30858	51162	SPS	ITP	\$809,640	SPP	Install one (1) 14.4 MVAR capacitor bank at Allred 115 kV.		6/1/2021
200336	30859	51163	SPS	ITP	\$1,217,275	SPS	Install one (1) 14.4-MVAR capacitor bank at the Plains Interchange 115 kV substation.	11/1/2017	6/1/2019
	30860	51164	SPS	ITP	\$1,619,280	SPP	Install two (2) stages of 14.4 MVAR capacitor banks at China Draw 115 kV.		6/1/2022
	30860	51165	SPS	ITP	\$1,619,280	SPP	Install two (2) stages of 14.4 MVAR capacitor banks at North Loving 115 kV.		6/1/2022
	30862	51167	SEPC	ITP	\$337,350	SPP	Install one (1) 6 MVAR capacitor bank at Grinnell 115 kV.		6/1/2023
200326	30866	51170	SPS	ITP	\$31,198	SPS	Replace wave trap at Amarillo South to increase the rating of the 230 kV line from Amarillo South to Swisher County.	4/1/2020	4/1/2020
	30867	51171	SPS	ITP	\$3,051,300	SPP	Install 3rd 230/115 kV transformer at Tuco with an emergency rating of 252 MVA.		6/1/2022
	30868	51172	AEP	ITP	\$251,887	SPP	Rebuild 0.32-mile 138 kV from Enogex Wilburton Tap to Lone Oak to achieve a new emergency rating of 286 MVA.		4/1/2023
	30868	51173	AEP	ITP	\$16,726,892	SPP	Rebuild 22.5-mile 138 kV from Enogex Wilburton Tap to Sardis to achieve a new emergency rating of 286 MVA.		4/1/2023
	30868	51174	AEP	ITP	\$3,353,250	SPP	Rebuild 3.6-mile 138 kV from Clayton to Sardis to achieve a new emergency rating of 286 MVA.		4/1/2023
	30868	51175	AEP	ITP	\$8,152,603	SPP	Rebuild 11.6-mile 138 kV from Clayton to Nashoba to achieve a new emergency rating of 286 MVA.		4/1/2023
	30868	51176	AEP	ITP	\$17,844,360	SPP	Rebuild 22.4-mile 138 kV from Bethel to Nashoba to achieve a new emergency rating of 286 MVA.		4/1/2023
	30868	51177	AEP	ITP	\$12,992,400	SPP	Rebuild 16.3-mile 138 kV from Bethel to Broken Bow to achieve a new emergency rating of 286 MVA.		4/1/2023
	30864	51178	AEP	ITP	\$171,990	SPP	Upgrade relays and relays settings at Sand Springs to achieve a new emergency rating of 309 MVA on the Prattville - Sand Springs 138 kV line .		6/1/2023
	30835	51179	SPS	Regional Reliability	\$483,392	SPP	Install any 345 kV terminal equipment required for second 345/115 kV transformer at Road Runner.		

200325	30427	51180	SEPC	ITP	\$3,540,983	SEPC	Install any 345 kV terminal equipment required for second 345/115 kV transformer at Mingo.	6/1/2016	6/1/2015
	30870	51183	SPS	Regional Reliability	\$12,991,922		Install 150MVAR SVC/Statcom with a range of -50MVAR to 150MVAR at Whitten.		
	30872	51186	SEPC	ITP	\$13,951,285		New 20 mile 115kV Line between Gray County - Cudahy		
200314	30873	51187	AEP	ITP	\$15,821,763	AEP	Rebuild 16.5-mile 138 kV from Southwestern Station to Carnegie.	12/31/2017	6/1/2016
	30874	51188	SPS	ITP	\$9,120,375	SPP	Rebuild of the 115kV Ochoa to Whitten 15 mile line.		
200326	30875	51189	SPS	ITP	\$7,264,308	SPS	Rebuild 11.1-mile 115 kV line from PCA Interchange to Quahada.	6/15/2017	6/1/2016
200319	30876	51190	OGE	ITP	\$387,722	SPP	Rebuild 10.7-mile 69 kV line from Little River to Maud.	3/1/2016	6/1/2015
	30878	51192	WFEC	ITP	\$1,854,448	SPP	Install new 138/69 kV transformer at Byron.		
200324	30914	51194	SPS	ITP	\$3,659,456	SPS	Install one(1) 100-MVAR capacitor bank at Potash Junction 230 kV substation.	11/16/2018	6/1/2015
200317	30881	51197	KCPL	ITP	\$2,000,000	KCPL	Replace existing 161/69 kV transformer at South Waverly to increase the rating.	6/1/2016	6/1/2015
	30882	51198	CUS	ITP	\$3,859,619		New 161/69 kV transformer at Battlefield Substation.		
	30882	51199	CUS	ITP	\$3,859,619		New 161/69 kV transformer at Battlefield Substation.		
200318	30883	51200	NPPD	ITP	\$5,163,000	NPPD	Tap the existing 115 kV line from Ainsworth to Stuart to construct the new Bassett substation.	6/1/2018	6/1/2016
200319	30884	51202	OGE	ITP	\$2,786,625	SPP	Install 138/69 kV bus tie transformer at Stillwater and interface Stillwater 69 kV substation with existing Stillwater Municipal 69 kV transmission system.	6/1/2019	6/1/2019
	30886	51204	SEPC	ITP	\$3,073,594		Reconductor Cimarron River to Hayne3 115kV line.		
200326	30888	51206	SPS	ITP	\$1,714,686	SPS	Replace 115/69 kV transformer at Lynn County substation.	6/1/2019	6/1/2019
200314	30889	51207	AEP	ITP	\$7,062,332	AEP	Rebuild the 2.4-mile 138kV line from Linwood to Cedar Grove to South Shreveport. Upgrade the jumpers at Linwood.	6/1/2018	6/1/2017
200325	30916	51209	SEPC	ITP	\$2,437,937	SEPC	Replace breaker, switches, CTs, and relay(s) at the Buckner and Spearville 345 kV substations to increase the rating of the 345 kV line from Buckner to Spearville.	12/31/2016	6/1/2015
	30890	51210	EDE	ITP	\$916,722	SPP	Rebuild 1.33 miles of the 69kV line between the Joplin 26th st sub 59 and the Joplin 10th St sub 64 substations.		
200323	30891	51211	WR	ITP	\$734,229	WR	Upgrade breakers and switches at Benton 138 kV substation to increase transformer rating.	6/1/2016	6/1/2015
200316	30892	51212	GRDA	ITP	\$6,923,120	GRDA	Upgrade breaker and relay(s) at CPPXF#22 69 kV substation.	12/31/2016	6/1/2015
200326	30894	51214	SPS	ITP	\$1,262,485	SPS	Install one (1) 14.4-MVAR capacitor bank at Cargill 115 kV substation.	6/1/2019	6/1/2019
200314	30895	51215	AEP	ITP	\$4,294,228	AEP	Rebuild 0.8-mile 69 kV line from Brooks Street to Edwards Street. Upgrade jumpers at both substations.	6/1/2018	6/1/2016
200319	30900	51220	OGE	ITP	\$3,404,703	SPP	Install new 69 kV breaker at Warner Tap to facilitate closing of the 69 kV switch at Wells substation.	6/1/2016	6/1/2015
200322	30903	51223	WFEC	ITP	\$224,900	SPP	Install one (1) 5-MVAR capacitor bank at Winchester 69 kV substation.		6/1/2020
200322	30905	51225	WFEC	ITP	\$160,241	SPP	Install one (1) 3-MVAR capacitor bank at the Thackerville 69 kV substation.		6/1/2019
	30908	51229	SPS	ITP			Upgrade the existing 230/115kV transformer at Potash Junction substation to bring normal and emergency ratings from 150/150 to 250/288 MVA		

200316	30909	51230	GRDA	ITP	\$160,200	GRDA	Replace CTs and relays at both Collinsville and Skiatook substations to increase the rating of the 69 kV line from Collinsville to Skiatook.	6/1/2017	6/1/2017
	30911	51232	SEPC	ITP	\$674,700	SEPC	Upgrade Capacitor banks at Mingo 115kV station to 12MVar.		
	30911	51233	SEPC	ITP		SEPC	Upgrade capacitor banks at Mingo substation to 48MVar.		
	30911	51234	SEPC	ITP		SEPC	Upgrade capacitor banks at Ross Beach 115kV substation to 18MVar.		
200343	30912	51235	SPS	ITP	\$13,831,957	SPS	Tap the existing 345 kV line from Finney to Hitchland to construct the new Stevens Co. substation. Install any necessary 345 kV terminal equipment.	6/1/2018	6/1/2015
200343	30913	51237	SPS	ITP	\$4,811,635	SPS	Convert RIAC substation to 115 kV. Install a new 3-way 115 kV line switch tapping the 115 kV line from Brasher to Roswell Interchange. Remove the existing 69 kV transmission lines terminating at RIAC and rebuild the 1.5-mile 69 kV line from the north with a new 115 kV line to RIAC. Add a new 115 kV terminal at Roswell Interchange and build a new 0.1-mile line out of Roswell Interchange to connect to the Roswell City 115 kV circuit.	6/1/2018	6/1/2015
200344	30912	51240	SEPC	ITP	\$767,645	SEPC	Construct new 1-mile 115 kV line from Walkemeyer to the new Stevens Co. substation.	6/1/2018	6/1/2015
200344	30912	51241	SEPC	ITP	\$5,668,987	SEPC	Install 115 kV terminal equipment at the existing Walkemeyer substation required to accommodate the terminations of the new 1-mile 115 kV line from the new Stevens Co. substation and the new 21-mile 115 kV line from North Liberal.	6/1/2018	6/1/2015
200342	30922	51243	MKEC	ITP	\$6,908,748	MKEC	Install any 115 kV terminal equipment at the existing North Liberal substation necessary to accommodate termination of new 115 kV line from Walkemeyer.	6/1/2019	6/1/2019
200324	30914	51245	SPS	ITP	\$2,667,006	SPS	Rebuild 3-mile 115 kV line from Cardinal to Targa.	5/31/2018	6/1/2015
	30823	51246	SPS	Regional Reliability	\$6,469,386	SPP	Reconductor 115kv line between IMC #1Tap and Livingston Ridge from 159/160 MVA to 240/240 MVA.		
200324	30914	51250	SPS	ITP	\$4,430,052	SPS	Rebuild 4.3-mile 115 kV line from National Enrichment Plant to Targa.	8/15/2017	6/1/2015
	30915	51256	WR	ITP	\$14,363,150		Tap the Reno county - Wichita 345kV line into Moundridge.		
	30915	51257	SPS	ITP			Tap the Moundridge and Wichita 345kV line into Moundridge bus.		
	30915	51258	WR	ITP			Install a 345/138kv transformer at Moundridge.		
	30845	51261	SPS	ITP	\$3,649,492		New Switch at Highland Park Substation 115kV.		
	30871	51262	AEP	Regional Reliability	\$573,486	SPP	City and Hobart Junction to achieve a new emergency rating of 76 MVA on the 69 kV line from Hobart City to Hobart Junction.		
	30878	51267	WFEC	ITP	\$380,635	SPP	Install 138 kV terminal equipment at Byron necessary to install new 138/69 kV transformer.		
200317	30881	51268	KCPL	ITP	\$280,000	KCPL	Install 161 kV terminal upgrades at South Waverly necessary to upgrade the existing 161/69 kV transformer.	6/1/2016	6/1/2015
200319	30884	51269	OGE	ITP	\$611,398	SPP	Install 138 kV terminal equipment required to install new 138/69 kV transformer at Stillwater.	6/1/2019	6/1/2019
200326	30888	51270	SPS	ITP	Cost included in UID 51206 estimate	SPS	Install 115 kV terminal equipment at Lynn County substation necessary to replace 115/69 kV transformer.	6/1/2019	6/1/2019

200331	30917	51271	SEPC	ITP	\$1,909,424	SEPC	Install one (1) 14.4-MVAR capacitor bank at Ellsworth 115 kV substation.	6/1/2019	6/1/2019
	30918	51272	SPS	Regional Reliability	\$2,597,868	SPP	Rebuild 3.5-mile 115 kV line from Cooper Ranch to Oil Center to achieve a new emergency rating of 239 MVA.		
	30918	51273	SPS	Regional Reliability	\$3,566,564	SPP	Rebuild 4.9-mile 115 kV line from Byrd to Cooper Ranch to achieve a new emergency rating of 239 MVA.		
	30920	51275	SPS	Regional Reliability	\$1,978,085	SPP	Upgrade 115/69 kV transformer at Eagle Creek to achieve a new emergency rating of 84 MVA.		
200318	30921	51276	NPPD	ITP	\$200,000	NPPD	Rebuild 7.1-mile 115 kV line from Ainsworth to Ainsworth Wind.	6/1/2020	6/1/2020
200318	30883	51277	NPPD	Regional Reliability	\$902,000	NPPD	Install one(1) 9-MVAR capacitor bank at the new Bassett 115 kV substation.	6/1/2018	6/1/2016
	30924	51278	WFEC	Regional Reliability	\$1,050,000	WFEC	Add 40 MVAR of capacitance at Salt Plains 138 kV.	3/25/2016	
	30925	51279	WFEC	Regional Reliability	\$1,050,000	WFEC	Add 40 MVAR of capacitance at Byron 138 kV.	3/25/2016	
	30926	51280	WFEC	Regional Reliability	\$300,000	WFEC	Add 4.8-MVAR cap bank at Wakita 69 kV.	3/25/2016	
	30928	51281	WFEC	Regional Reliability			Add a 4.8 MVAR capacitor bank at Hazleton 69kV.		
	30929	51282	SPS	Regional Reliability			Replace CTs at Murphy 115 kV substation.		
200337	30850	51283	GMO	ITP	\$6,237,000	GMO	Convert GMO's portion of the existing 18.2-mile 161 kV line from Iatan to Stranger Creek to 345 kV operation.	1/1/2019	1/1/2019
200338	30850	51284	WR	ITP	\$28,010,000		Convert WR's portion of the existing 18.2-mile 161 kV line from Iatan to Stranger Creek to 345 kV operation. Install any necessary terminal equipment at Stranger Creek.	1/1/2019	1/1/2019
	30933	51291	SPS	Generation Interconnection	\$4,013,283	GIA for GEN-2011-025 (SA 3041R1)	New Transmission Owner 115kV Switching station: Construct a new three (3) breaker 115 kV ring bus station and install the following equipment to interconnect Interconnection Customer's Generating Facility. Disturbance Monitoring Device, 3 Breaker 115 kV Ring Substation, Right of Way; Crosby County - Floyd County (Circuit T-65): Work to tap and pull into and out of new Transmission Owner Switching Station.; New Transmission Owner Switching Station - Crosby County 115 kV: Replace existing static from new Transmission Owner Switching Station to Crosby County with fiber optic static.; Crosby County 115 kV: Upgrade 115 kV terminal at Crosby County.; Floyd County 115 kV: Upgrades 115 kV terminal at Crosby County.	5/31/2016	
200340	879	51298	OGE	Regional Reliability		OGE	Install any terminal upgrades at the 138 kV substation Bluebell necessary to achieve an emergency rating of 287 MVA on the 138 kV line from Bluebell to Prattville.	3/9/2016	
	30937	51299	SPS	Generation Interconnection	\$1,500,377	GIA for GEN-2012-020 (SA 2896)	Add one (1) new 230kV breaker (breaker and one-half configuration). Replace one (1) 230kV breaker. Replace five (5) 230kV Switches. Includes dead end structure.	4/1/2016	
	30938	51300	ITCGP	Generation Interconnection	\$1,138,472	GIA for GEN-2012-024 (SA 3006)	Install one (1) 345 kV, 3000 Amp breaker, line relaying, disconnect switches, and associated equipment.	10/7/2016	

	30940	51302	OGE	Regional Reliability			Install 20-Mvar capacitor bank at Red Oak 138 kV substation.		
	30942	51304	OGE	Regional Reliability			Upgrade terminal equipment on the Park Lane - Seminole 138kV line.	12/1/2015	
	136	51305	OGE	Regional Reliability	\$3,450,505	OGE	Tap the existing 138 kV line from Lincoln to Horseshoe Lake adjacent to Hammett Tap to construct a new 138 kV substation with a three-breaker ring bus configuration to accommodate the termination of the new 138 kV line from the Meeker substation.		
	30943	51307	BEPC	Regional Reliability	\$3,000,000	BEPC	Construct new 345 kV AVS switching station to accommodate new 345 kV line from Charlie Creek.	1/1/2016	12/1/2017
	30943	51308	BEPC	Regional Reliability	\$9,000,000	BEPC	Expand Charlie Creek 345 kV substation to accommodate new 345 kV line from AVS.	1/1/2016	12/1/2017
	30944	51311	BEPC	Regional Reliability	\$19,000,000	BEPC	Construct new 345 kV Judson substation adjacent to the existing 230 kV Williston substation.	1/1/2016	12/1/2017
	30944	51312	BEPC	Regional Reliability	\$2,400,000	BEPC	Construct 2-mile 230 kV DC line from new Judson substation to Williston.	1/1/2016	12/1/2017
	30944	51313	BEPC	Regional Reliability	\$2,000,000	BEPC	Install any necessary terminal upgrades at Williston 230 kV to accommodate new 230 kV line from new Judson substation.	1/1/2017	12/1/2017
	30945	51314	BEPC	Regional Reliability	\$86,000,000	BEPC	Construct new 58-mile 345 kV line from Judson to Tande.	1/1/2016	12/1/2017
	30945	51315	BEPC	Regional Reliability	\$18,000,000	BEPC	Construct new 345 kV Tande substation adjacent to the existing 230 kV Neset substation. Install new 345/230 kV transformer at Tande.	1/1/2016	12/1/2017
	30945	51316	BEPC	Regional Reliability	\$3,000,000	BEPC	Install new 2-mile 230 kV line from Neset to new Tande substation.	1/1/2016	12/1/2017
	30945	51317	BEPC	Regional Reliability	\$4,000,000	BEPC	Install any necessary terminal upgrades at Neset 230 kV to accommodate new 230 kV line from new Tande substation.	1/1/2016	12/1/2017
	30946	51318	BEPC	Regional Reliability	\$31,500,000	BEPC	Construct new 65-mile 230 kV line from Lower Brule to Witten.	1/1/2018	12/1/2016
	30946	51319	BEPC	Regional Reliability	\$4,500,000	BEPC	Install any necessary terminal upgrades at Lower Brule 230 kV to accommodate new 230 kV line from Witten.	1/1/2018	12/1/2016
	30946	51320	BEPC	Regional Reliability	\$2,000,000	BEPC	Install communication facilities associated with the new 230 kV line from Lower Brule to Witten.	1/1/2018	12/1/2016
200344	30912	51327	SEPC	Regional Reliability	\$11,695,379	SEPC	Install new 345/115 kV transformer at the new Stevens Co. substation. Install any necessary 115 kV terminal equipment.	6/1/2018	6/1/2015
	30948	51329	WFEC	Regional Reliability			Install 30-MVAR (2 stages of 15 MVAR) 69 kV capacitor bank at Chaney Dell.		4/1/2016
	30949	51330	OGE	Regional Reliability			Install two-stage 18-MVAR 138 kV capacitor bank at Butterfield.		10/1/2016
	30951	51331	NPPD	Generation Interconnection	\$2,047,174	Estimate from GIA for GEN-2013-032 (SA 3054); 51.2% of total line rebuild.	Rebuild/Upgrade the Antelope- County Line 115kV to rerate line segments to greater than 125 MVA.	5/1/2017	
	30952	51332	SEPC	Regional Reliability			Install two-stage 24-MVAR 115 kV capacitor bank at Ingalls.		6/1/2017

	30953	51333	SEPC	Regional Reliability			Install 12-MVAR 115 kV capacitor bank at Lane Scott.		6/1/2017
	30954	51334	SPS	Regional Reliability			Construct new Ink Basin substation at the intersection of the 230 kV line from Hobbs to Yoakum and the 115 kV line from Allred Tap to LE Watts. Install 250 MVA 230/115 kV transformer at Ink Basin.		6/1/2016
	30955	51335	OGE	Generation Interconnection	\$2,807,651	Estimate from GIA for GEN-2014-064 (SA 3116)	Install four (4) 138 kV, 2000 Amp breakers, line relaying, disconnect switches, and associated equipment.	9/19/2016	
	30957	51336	SPS	Generation Interconnection	\$1,250,017	Estimate from GIA for GEN-2014-040 (SA 3106).	Install one (1) new 115kV line terminal to accept 115kV transmission line from GEN-2014-040 Generating Facility, including all main 4â€ aluminum tubing bus conductor and associated equipment.	11/14/2016	
	30958	51337	SPS	Generation Interconnection	\$11,537,056	Estimate from GIA for GEN-2014-012 (SA 3098).	Construct new 230 kV three (3) breaker ring bus 230 kV substation (operated at 230kV but constructed and insulated for 345kV operation) to interconnect the Interconnection Customerâ€™s Generating Facility	3/1/2018	
	30956	51339	NPPD	Generation Interconnection	\$2,300,000	Estimate from GIA for GEN-2013-032 (SA 3054)	Install two (2) 115 kV circuit breakers and associated switches, structures, and associated equipment. Add one (1) 115 kV dead-end tower, arresters, line switch, revenue meter and other line relaying equipment necessary to interconnect the Interconnection Customer Interconnection Facilities; Replace one (1) 115 kV circuit breaker due to short circuit over-duty.	5/1/2017	
	30951	51340	NPPD	Generation Interconnection	\$1,952,826	Estimate from GIA for GEN-2013-032 (SA 3054); 48.8% of total line rebuild.	Rebuild/Upgrade the Battle Creek - County Line 115kV to rerate line segments to greater than 125 MVA.	5/1/2017	
	30960	51341	OGE	Generation Interconnection	\$5,052,157	Estimate from GIA for GEN-2013-030 (SA 2964R1)	Convert from ring bus to breaker-and-a-half configuration by installing additional rung to the existing bus layout and install five (5) 345 kV, 3000 Amp breakers, line relaying, disconnect switches, and associated equipment. Add one (1) 345 kV line terminal including dead-end structure, substation steel, substation bus, interconnection metering, line switch and associated equipment.	8/20/2016	
	30962	51343	GRDA	Generation Interconnection	\$17,847,821	Estimate from GIA for GEN-2013-028 (SA 2999).	Construct a new 345 kV substation using breaker-and-a-half design including eight (8) circuit breakers, relaying, metering, communications, fault recorder, current and potential transformers, SCADA, and associated station lot supporting equipment. Add two (2) 345 kV line terminals to terminate existing Tulsa North-GRDA1 345 kV transmission line. Add three (3) 345 kV dead-end structures, concrete foundations with conductor supporting equipment, relaying, three (3) interconnect metering equipment sets, communications, fault recorder, current and potential transformers, SCADA, and associated station lot supporting equipment.	2/24/2017	

	30962	51344	GRDA	Generation Interconnection		Estimate from GIA for GEN-2013-028 (SA 2999).	Reset relays at GRDA1 for GEN-2013-028 Interconnection Substation	2/24/2017	
	30962	51345	GRDA	Generation Interconnection		Estimate from GIA for GEN-2013-028 (SA 2999).	Reset relays at Tonnece 345kV for GEN-2013-028 Interconnection Substation	2/24/2017	
	30950	51348	LES	Generation Interconnection	\$2,838,685	Estimate from GIA for GEN-2013-002 & GEN-2013-019 (SA 3023).	Build new 115 kV Interconnection Substation on Sheldon - Folsom & Pleasant Hill 115kV circuit #2 (LN-1197) transmission line to accommodate a new 115 kV generator interconnection.	10/15/2016	
	30950	51349	NPPD	Generation Interconnection	\$92,000	Estimate from GIA for GEN-2013-002 & GEN-2013-019 (SA 3023).	Replace protective relays and communication equipment at Sheldon that protects the 115kV line to the new 115kV substation for GEN-2013-002 & GEN-2013-019.	10/15/2016	
	30965	51351	ITCGP	Generation Interconnection	\$2,607,257	Estimate from GIA for GEN-2011-008 (SA 2868R2).	Clark County 345kV Substation - Add one (1) 345kV breaker and a half leg to the ring. Work to include circuit breakers, switches, structural steel and associated equipment to terminate the 345kV line to the generating facility. (GEN-2011-008)	10/7/2016	
	30969	51356	OGE	Generation Interconnection	\$2,554,395	Estimate from GIA for GEN-2011-049 (SA 2869R1).	Border Substation - Install one (1) 345kV breaker, line relaying, disconnect switches and associated equipment to existing Border Substation.; Right-of-Way for new 345kV Terminal Addition	8/2/2016	
	30969	51356	OGE	Generation Interconnection	\$2,554,395	Estimate from GIA for GEN-2011-049 (SA 2869R1).	Border Substation - Install one (1) 345kV breaker, line relaying, disconnect switches and associated equipment to existing Border Substation.; Right-of-Way for new 345kV Terminal Addition	8/2/2016	
	30971	51358	SPS	Regional Reliability			Build new 4.5-mile 115 kV line from Cochran to Whiteface substation. This was identified as part of DPA-2013-June-342.		
	30955	51362	OGE	Generation Interconnection	\$410,000	Estimate from GIA for GEN-2014-064 (SA 3116)	Add one (1) 138 kV line terminal including dead-end structure, line switch, line relaying, revenue metering, CTs, PTs, and associated equipment.	9/19/2016	
	30973	51363	AEP	Generation Interconnection	\$1,000,000	Estimate from GIA for GEN-2014-057 (SA 3129).	Install dead-end structure and disconnect switch at the POI for the 345 kV transmission line from the Generating Facility; Install CVT and revenue metering including 345 kV CTs and PTs at the POI on the transmission line from the Generating Facility; Transmission Owner will provide a serial port on the RTU at Terry Road switching station for Interconnection Customer to access real-time data from the meter; Transmission Owner will provide Interconnection Customer with access to interval data (historical MV90) from the meter recorder using a telephone line, or some other networked means of contacting the meter, which will be provided by Interconnection Customer; Install entrance duct at the POI to accommodate OPGW from the Interconnection Customer's step-up substation, adequate space in the POI control building to accommodate Interconnection Customer's fiber and splice termination equipment, and associated equipment; and Install RTU, SDR rack, PMU and DME panels to be located at the Generating Facility step-up substation.	11/23/2016	

	30973	51364	AEP	Generation Interconnection	\$19,100,000	Estimate from GIA for GEN-2014-057 (SA 3129)	Construct the 345 kV Terry Road switching station including a three breaker ring bus configured for future expansion to breaker-and-a-half. The Terry Road switching station will be located on property acceptable to Transmission Owner in the vicinity of the structure 29/2 of the existing Lawton Eastside - Sunnyside (OKGE) 345 kV line. The Terry Road switching station will have line terminals for transmission lines to Lawton Eastside 345 kV, Sunnyside (OKGE) 345kV and the Generating Facility. The substation will include three (3) 3000A circuit breakers, disconnect switches, line relaying, monitoring equipment (DME, SDR and PMU's on both transmission lines), and all associated and miscellaneous equipment. The Terry Road switching station will include two 50 MVAR reactors with reactor switchers, one on the line to Lawton Eastside and one on the line to Sunnyside.; Install turning structures and loop the existing Lawton Eastside - Sunnyside (OKGE) transmission line in and out of the new Terry Road switching station.; Engineering support, project oversight and construction supervision of Transmission Owner's Interconnection Facilities and Stand Alone Network Upgrades constructed by Interconnection Customer.	11/23/2016	
	30973	51365	OGE	Generation Interconnection	\$20,000	Estimate from GIA for GEN-2014-057 (SA 3129)	Sunnyside (OKGE) 345kV Substation: Verify relay settings are compatible with relays at Transmission Owner 345 kV Interconnection Substation.	11/23/2016	
	30975	51368	SEPC	Generation Interconnection	\$4,000,000	Estimate from GIA for GEN-2010-045 (SA 2866)	At the Buckner Substation: Add structural steel, switches, and all associated terminal equipment required for the 345 kV transmission line.; Add all equipment for 345 kV metering.; Add one (1) 345 kV breaker and one (1) 345 kV reactor.	10/15/2017	
	30975	51369	SEPC	Generation Interconnection	\$8,200,000	Estimate from GIA for GEN-2010-045 (SA 2866).	Buckner Substation: Add a third 345kV breaker and a half leg to the ring bus.; Add two (2) 345 kV breakers and all associated network equipment needed for the 345 kV line terminal.; Spearville Substation: Replace terminal equipment on Buckner circuit.	10/15/2017	
	30978	51374	OGE	Generation Interconnection	\$1,099,958	Estimate from GIA for GEN-2011-014 (SA 2945).	New 345 kV EHV Substation - Add a one (1) 345 kV line terminal to a new EHV Substation located along the Woodward to Beaver County 345 kV line including dead end structure, line switches, line relaying, and revenue metering including CT's and PT's.	10/2/2016	
	30978	51375	OGE	Generation Interconnection	\$20,744,936	Estimate from GIA for GEN-2011-014 (SA 2945).	New 345 kV EHV Substation - New 345 kV EHV substation with five (5) 345 kV breakers, line relaying, disconnect switches, and associated equipment to be located on the Woodward to Beaver County 345 kV line. Add four (4) 345 kV line terminals to the new EHV substation, including dead end structure, line switch, line relaying, revenue metering including CT's and PT's; and Woodward District EHV 345 kV Substation - If required, add line reactors at new substation as determined by Switching Surge Study (EMTP) study performed by affected Transmission Owner(s). Including 345 kV reactor banks, disconnect switches, structural steel and other associated miscellaneous equipment.	10/2/2016	

	30980	51379	AEP	Generation Interconnection	\$983,000	Estimate from GIA for GEN-2011-050 (SA 2637R1).	Install dead-end structure and disconnect switch in the Santa Fe switching station for the 138 kV line from the Generating Facility; Install CVT, revenue metering including 138 kV CTs and PTs at the Santa Fe switching station on the line from the Generating Facility; Install entrance duct at the Santa Fe switching station to accommodate OPGW from the Drift Sand substation, adequate space in the Santa Fe switching station control building to accommodate Interconnection Customer's fiber and splice termination equipment, and associated equipment; and Install RTU, SDR rack, and DME panel to be located at the Generating Facility collector station.	12/1/2016	
	30980	51380	AEP	Generation Interconnection	\$1,100,000	Estimate from GIA for GEN-2011-050 (SA 2637R1).	Install a new 138 kV circuit breaker, associated disconnect switches and bus to connect to the 138 kV ring in Transmission Owner's Santa Fe switching station.	12/1/2016	
	30981	51381	OGE	Generation Interconnection	\$1,099,958	Estimate from GIA for GEN-2011-050 (SA 2902SO)	Tap Tatonga - Woodward District EHV 345kV (GEN-2011-051 POI) (TOIF)	8/24/2015	
	30981	51382	OGE	Generation Interconnection	\$8,176,915	Estimate from GIA for GEN-2011-050 (SA 2902SO).	Tap Tatonga - Woodward District EHV 345kV (GEN-2011-051 POI) (NU)	8/24/2015	
	30982	51383	AEP	Generation Interconnection	\$800,000	Estimate from GIA for GEN-2012-027 (SA 2651).	Shidler 138kV GEN-2012-027 Addition (TOIF)	5/30/2015	
	30982	51384	AEP	Generation Interconnection	\$1,780,000	Estimate from GIA for GEN-2012-027 (SA 2651).	Shidler 138kV GEN-2012-027 Addition (NU)	5/30/2015	
	30656	51385	WFEC	Generation Interconnection	\$200,000	Estimate from GIA for GEN-2012-040 (SA 2647).	Chilocco 138kV GEN-2012-040 Adjacent Addition (NU-WFEC)	3/15/2015	
	30656	51386	OGE	Generation Interconnection	\$3,033,890	Estimate from GIA for GEN-2012-040 (SA 2647).	Chilocco 138kV GEN-2012-040 Adjacent Addition (NU-OGE)	3/15/2015	
200358	30984	51390	GRDA	Regional Reliability	\$3,859,619	SPP	Claremore 161/69 kV Ckt 1 Transformer		
200358	30984	51391	GRDA	Regional Reliability	\$3,859,619	SPP	Claremore 161/69 kV Ckt 2 Transformer		
200358	30984	51392	GRDA	Regional Reliability		SPP	Claremore 161 kV Ckt 1 Terminal Upgrades		6/1/2021
200358	30984	51393	GRDA	Regional Reliability		SPP	Claremore 161 kV Ckt 2 Terminal Upgrades		6/1/2021

	30732	51394	MKEC	Regional Reliability		MKEC	Install new 3-breaker ring bus at Vilda 138 kV substation. Tap existing 138 kV line from Milan to Milan Tap approximately 0.25 miles from the Viola substation and terminate both end points at Viola. WR and Mid-Kansas Electric Company shall decide who shall build how much of these Network Upgrades and shall provide such information, along with specific cost estimates for each DTO's portion of the Network Upgrades, to SPP in its response to this NTC.		6/1/2015
	30732	51395	WR	Regional Reliability		WR	Install new 3-breaker ring bus at Vilda 138 kV substation. Tap existing 138 kV line from Milan to Milan Tap approximately 0.25 miles from the Viola substation and terminate both end points at Viola. WR and Mid-Kansas Electric Company shall decide who shall build how much of these Network Upgrades and shall provide such information, along with specific cost estimates for each DTO's portion of the Network Upgrades, to SPP in its response to this NTC.		6/1/2015
	30985	51396	AEP	Generation Interconnection	\$750,000	Estimate from GIA for GEN-2014-020 (SA 3137)	Install dead-end structure and disconnect switch in the Leonard switching station for the 138 kV transmission line from the Generating Facility; Install CVT and revenue metering including 138 kV CTs and PTs in the Leonard switching station on the transmission line from the Generating Facility; Install entrance duct in the Leonard switching station to accommodate OPGW from the Interconnection Customer's step-up substation and ensure adequate space in the Leonard switching station control building to accommodate Interconnection Customer's fiber and splice termination equipment, and associated equipment; and Transmission Owner will install an RTU, SDR rack, and DME panel to be located at the Generating Facility step-up substation (Transmission Owner's name for this asset will be "Malcolm").	10/31/2017	
	30985	51397	AEP	Generation Interconnection	\$6,820,000	Estimate from GIA for GEN-2014-020 (SA 3137)	138 kV, three-breaker ring bus substation including three (3) 138 kV, 3,000 Amp circuit breakers, line relaying, 3,000 Amp disconnect switches and all associated work and equipment. The Leonard switching station will be located on the Cornville - Cimarron (OG&E) 138 kV transmission line. Transmission Owner and Interconnection Customer will cooperate to identify a mutually agreeable location for the Leonard switching station.; Line terminals for the 138 kV transmission lines to Cimarron (OG&E) and Cornville.; A 138 kV line terminal to connect the transmission line from the Generating Facility.; Turning structures to loop the Cornville - Cimarron (OG&E) line into the new Leonard switching station.; Land for Leonard Switching Station (provided by Interconnection Customer) - Estimated Cost of \$75,000 (not included in totals in section 3).	10/31/2017	
	30985	51398	AEP	Generation Interconnection	\$20,000	Estimate from GIA for GEN-2014-020 (SA 3137)	Cimarron Substation - Relay settings verification and field testing.	10/31/2017	

	30932	51399	MIDW	Generation Interconnection	\$457,882	Estimate from GIA for GEN-2009-020 & GEN-2014-025 (SA 3147).	69 kV line terminal construction.	10/14/2015	
	30932	51400	MIDW	Generation Interconnection	\$231,564	Estimate from GIA for GEN-2009-020 & GEN-2014-025 (SA 3147).	Nekoma 115/69 kV Substation: Replace 115kV circuit switchers 3809 and 3810.	7/29/2016	
	30992	51425	OGE	Generation Interconnection	\$7,100,000	DFS-2011-001 - Facility Study for Shared Facilities in OGE (Phase Shifting Transformer)	Install one (1) 138kV phase shifting transformer along with upgrading relay, protective, and metering equipment, and all associated and miscellaneous materials.		

STEP Date	Project Lead Time (Mths)	From Bus Number	From Bus Name	To Bus Number	To Bus Name	Circuit	Voltage (kV)	New Miles	Rebuild / Reconductor Miles	Voltage Conversion Miles	Ratings (kV)
	10	520994	MEEKER	520951	HAMMETT269.0	1	138	10			219/235
	12	514782	WODWRD 2	521096	WOODWRD2	1	69		3.5		91/114
	12	520814	ANADARKO	520923	GEORGIA	1	138		2		212/264
	15	520898	ELMORE 2	521022	PAOLI 2	1	69		10.8		47/61
6/1/2015		533854	WESTLINK 69 KV	533847	TYLER 69 KV	1	69		2.65		131/143
6/1/2012	24	521106	GRNDFLD4	520926	GRANFLD2	1	138/69				70/70
6/1/2013	36	506944	CHAMSPR5	504020	FARMNGTN 5	1	161		11.1		294/360
6/1/2012	30	524822	CURRY 3	525028	BAILEYCO 3	1	115	41.5			273/300
6/1/2017		532861	EMANHAT6	532852	JEC 6	1	230		27		797/797
6/1/2013	18	507728	FORBNGT2	507754	S SHV 2	1	69		2.3		90/121
6/1/2018	24	509061	EVENSID2	509075	NWHENDR2	1	69		6.4		71/96
6/1/2013	24	507718	BROWNLE2	507745	NMARKET2	1	69		4.7		136/143
6/1/2014	24	507723	ELLERBE2	507728	FORBNGT2	1	69		2		90/121
3/1/2022	24	533036	CLEARWT4	539675	MILANTP4	1	138		5.6		261/314
3/1/2022	24	533036	CLEARWT4	539675	MILANTP4	1	138		6.1		261/314
6/1/2017	24	532858	BALDWIN6	533232	BALDCRK3	1	230/115				280/308
	28	525154	HAPPY_INT 3	525153	HAPPY_INT 2	2	115/69				84/96
6/1/2015		525461	NEWHART 6	525460	NEWHART 3	2	230/115				250/250
6/1/2017		526525	WOLFFORTH 6	526161	CARLISLE 6	1	230	16.8			478/478
6/1/2016		527800	EDDY_CNTY 6	527798	EDDY_CNTY 3	1	230/115				250/250
6/1/2014		526693	GRAHAM 2	526694	GRAHAM 3	1	115/69				84/84

6/1/2014	18	521005	MUSTANG	521058	SUNSHINE CANYON	1	69		9.9		72/89
		520814	ANADARK4	520828	BLANCHD2	1	138			25.2	212
		520828	BLANCHD2	521104	OU SW 4	1	138			2	212/264
6/1/2014		524567	NE_HEREFORD3	524555		1	115	5.1			245/275
6/1/2018		647917	S917 8	647918	S918 8	1	69				89/89
6/1/2013		521104	OU SW 4	520861	COLE 2	1	138		4		144/179
		514839	BRYANT 4	514835	MEMRIAL4	1	138				478/178
		510911	VALIANT7	508072	NWTXARK7	1	345	76.25			1330/1940
		541201	SIBLEY 7	541197	SMARYVL7	1	345	105			2496/2496
		645458	S3458 3	541197	SMARYVL7	1	345	65			2496/2496
		645458	S3458 3	541197	SMARYVL7	1	345	45			2496/2496
		509806	ONETA--4	509786	BA.N-ST4	1	138		4.33		284/316

		524364	RANDALL 3	524322	GEORGIA 3	1	115	2			160/160
6/1/2013		526677	GRASSLAND 6	526676	GRASSLAND 3	1	230/115				250/250
		514908	ARCADIA7	514909	REDBUD 7	3	345	5			1248/1426
6/1/2013	24	525926	115 kV	525925	69 kV	2	115/69				84/84
6/1/2017		524364	RANDALL 3	524322	GEORGIA 3	1	115		4.1		246/270
		524252		524254		1	115			1	157/173
6/1/2019		508355	WELSHRE4	508840	WILKES 4	1	138		23.74		395/592
6/1/2013		520861	COLE 2	520868	CRINER 2	1	138			10.2	144/179
6/1/2019		526268	LUBBCK_STH 3	526213	ALLEN 3	1	115		6		273/300
		524364	RANDALL 3	524523	CANYON_EAST3	1	115		13.8		273/300
6/1/2023		523095	HITCHLAND 6	523093	HITCHLAND 3	2	230/115				250/288
6/1/2023	24	526161	Carlisle Interchange 230 kV	526160	Carlisle Interchange 115 kV	1	230/115				250/288
	48	523869	Channing 230 kV	523229	Dallam 230 kV	1	230			35	492/541
6/1/2013	48	523229	Dallam 230 kV	523228	115 kV	1	230/115				168/168
6/1/2021		526160	CARLISLE 3	526192	MURPHY 3	1	115		3.98		273/300
		515305	FTSMITH8	515300	FTSMTHE5	5	500/161				493/493
	24	640436	Clarks				115				18 Mvar

	24	640305	O'Neill				115				18 Mvar
		533012	HALSTDS4	533065	SG12COL4	1	138				160/160
		508317	WINNSBO4				138				28.8 Mvar
		509071	LOGANSP4				138				28.8 Mvar
		533320	CLAYCSS3	533319	RILEY 3	1	115	6.7			233/245
		533319	RILEY 3				115				398
6/1/2022		526036	LC-OPDYKE 3				69				28.8 Mvar
6/1/2015		527711	EAGLE_CREEK3			1	115				14.4 Mvar
3/1/2018		700345	CHISHOLM7	515800	GRACMNT7	1	345	72			1792/1792
3/1/2018		700345	CHISHOLM7	700231	CHISHOLM6	1	345/230				675/675
3/1/2022		700346	LHAWKIN7	508359	WELSH 7	1	345	55			1792/1792
3/1/2022		700346	LHAWKIN7	508358	LHAWKIN4	1	345/138				675/675
3/1/2022		520999	MOORLND4	514788	GLASMTN4	1	138		26		268/287
3/1/2018		700345	CHISHOLM7	515800	GRACMNT7	1	345	29.8			1792/1792
3/1/2021		515375	WWRDEHV7	515407	TATONGA7	2	345	49			1792/1792
3/1/2021		515407	TATONGA7	515497	MATHWSN7	1	345	61			1792/1792
6/1/2018		541211	BLSPS 5	541206	PRALEE 5	1	161		3.21		558/558
6/1/2018		541205	BLSPE 5	541211	BLSPS 5	1	161		2.5		558/558
3/1/2018		750011	ELMCREK7	532773	SUMMIT 7	1	345	29.77			1792/1792
3/1/2018		750011	ELMCREK7	539639	ELMCREK6	1	345/230				448/448

3/1/2018		750011	ELMCREK7			1	345				
3/1/2018		539639	ELMCREK6				230				
3/1/2018	60	750011	ELMCREK7	532773	SUMMIT 7	1	345	28.46			1792/1792
6/1/2022		533365	EABILEN3	533362	CHAPMAN3	1	115		12.3		240/240
6/1/2022	24	533365	EABILEN3	533361	AEC 3	1	115		3.33		240/240
6/1/2022	36	533361	AEC 3	533371	NORTHVW3	1	115		21.75		240/240
6/1/2022	24	533370	NORTHST3	533371	NORTHVW3	1	115		3.2		240/240
3/1/2022		520882	DOVERSW4	521016	OKEENE 4	1	138		27.1		286/286
3/1/2020		539668	HARPER 4	539675	MILANTP4	1	138		22.11		261/314
6/1/2016		640226	HOSKINS3	750013	NELIGH 3	1	345	41			1792/1792
6/1/2016		750013	NELIGH 3	640293	NELIGH 7	1	345/115				458/474
1/1/2018		640500	CHERRY3 345.00	640183	GENTLMN3	1	345	110			1792/1792
1/1/2018		640500	CHERRY3 345.00				345				
1/1/2018		640500	CHERRY3 345.00	640503	HOLT.CO3 345.00	1	345	117			1792/1792
1/1/2018		640503	HOLT.CO3 345.00				345				
6/1/2020		525832	TUCO_INT 7	526462	AMOCO_SS 7	1	345	107			1792/1792
6/1/2020		526462	AMOCO_SS 7	526460	AMOCO_SS 6	1	345/230				560/644
6/1/2018		527896	HOBBS_INT 7	527894	HOBBS_INT 6	1	345/230				448/644
6/1/2013		523748	BOWERS 3	523797	HOWARD 3	1	115	33			180/199

6/1/2018		526146	INDIANA 3	526076	STANTON 3	1	115		1.5		240/240
6/1/2018		526146	INDIANA 3	526109	SP-ERSKINE 3	1	115		4		240/240
3/1/2021		515497	MATHWSN7	514901	CIMARON7	1	345	16			1792/1792
6/1/2020		526462	AMOCO_SS 7	527896	HOBBS_INT 7	1	345	52			1792/1792
3/1/2021		515497	MATHWSN7				345				1792/1792
1/1/2030						1	345/230				448/448
1/1/2030							345	108			1792/1792
1/1/2030							345	71			1792/1792
1/1/2030							345	79			1792/1792
1/1/2030							345	79			1792/1792
1/1/2030							345	6			1792/1792
1/1/2030							345	5			1792/1792
1/1/2030						1	345/230				448/448
1/1/2030						1	345/230				448/448
1/1/2030						1	345/230				448/448
1/1/2030							345		76		1792/1792
1/1/2030							345	69			1792/1792
1/1/2030						2	345/230				336/420
1/1/2030							345	16			1792/1792
1/1/2030						2	345/115				336/420
1/1/2030						2	345/230				336/420
1/1/2030						2	345/115				336/420
1/1/2030						1	345	120			1792/1792
1/1/2030						1	345	23			1792/1792
1/1/2033		645740	S3740 3	645454	S3454 3	1	345	28			1792/1792
1/1/2033		645459	S3459 3	646209	S1209 5	1	345/161				558/560
1/1/2030		523097	HITCHLAND 7	523961	POTTER_CO 7	2	345	119			1792/1792
1/1/2030						2	345	40			1792/1792
1/1/2030							345	40			1792/1792
6/1/2012		523747	BOWERS 2	523579	CANADIAN 2	1	69		49		52/69

		524267	BUSHLAND 6	524623	DEAFSMITH 6	1	230				478/502
6/1/2013	24	524623	DEAFSMITH 6	524622	DEAFSMITH 3	2	230/115				250/259
6/1/2015		531451	MINGO 7	531429	MINGO 3	2	345/115				289/308
6/1/2014		532767	GEARY 7	533336	GEARY 3	1	345/115				400/440
6/1/2017		512637	412SUB 5	512635	KERR GR5	1	161				356/432
6/1/2014		533336	GEARY 3	533362	CHAPMAN3	1	115	4.67	10.42		218/262
6/1/2018		512637	412SUB 5	512714	KANSATP5	1	161				356/432
6/1/2014		509083	ROKHILL4	507757	SPRIDGE4	1	138		27.6		272/376
6/1/2015		527786	ATOKA 3	527711	EAGLE_CREEK3	1	115	22.1			249/249
6/1/2018		524935	ZODIAC 3	524949	S_PORTALES 2	1	115	5.3			159/175
6/1/2018		524949	S_PORTALES 2	524950	MARKET_ST 2	1	115	6			159/175
6/1/2018		524950	MARKET_ST 2	524924	PORTALES 3	1	115	10.4			159/175
6/1/2018		532798	Viola 345	533075	Viola	1	345/138				448/492
6/1/2018		533075	Viola	533036	CLEARWT4	1	138	21.8			534/586
6/1/2018		533075	Viola	533045	GILL W 4	1	138	27.9			534/586
6/1/2013		533601	POTWIN 2				69				9.6 Mvar
1/1/2013		520937	HAZELTN2				69				4.8 Mvar
6/1/2014		532767	GEARY 7				345				1793/1793
6/1/2013		530562	HAYS 3	530553	S HAYS 3	1	115		3.25		164/199
6/1/2013		999113	8MESSICK	999114	MESSICK TAP		500/230				675/675
6/1/2014		659135	STEGALL3	640530	STEGALL7	1	345/115				400/440

6/1/2014		640530	STEGALL7	640338	SCOTBLF7	1	115	23			400/440
6/1/2018		532798	Viola 345			1	345				448/492
6/1/2013		999113	8MESSICK			1	500				
6/1/2014		659135	STEGALL3			1	345				
6/1/2016		640293	NELIGH 7			1	115	11.4	7		474
5/1/2013		515569	MDFRDTP4				138	13			183/228
6/1/2017		520409	SAND RDG_138				138				4.8 Mvar
6/1/2017		520937	HAZELTN2				69				4.8 Mvar
		514853	DVISION4	514849	LAKESID4	1	138		3.6		315
		524523	CANYON_EAST3	524516	CANYON_WEST3		115		3.7		107
6/1/2015		527146	MUSTANG_N 3	527062	SHELL_GAS 3	1	115	7.71			276/299
6/1/2015		511465	HOBART-2	511444	ROSVTAP2	1	69		10		136/143
6/1/2015		511444	ROSVTAP2	511475	SNYDER-2	1	69		18.7		143/158
6/1/2018		528575	OXYPERMIAN 3	528449	W_BENDER 3	1	115		0.5		276/303
6/1/2014		533021	NEOSHO 4	533768	NEOSHO 2	1	138/69				150/165
6/1/2019		508337	CHAPELH4	508355	WELSHRE4		138		4.4		395/592
6/1/2019		532984	SUMNER 4	533075	Viola	1	138	28			262/314
6/1/2016		646366	S1366 5	647866	S6866 8		161/69				200/200

5/1/2015		520204	SANDY_CN_138				138				20 Mvar
6/1/2016		533320	CLAYCSS3				115				10.8 Mvar
6/1/2015		528027	Road Runner 345 kV	528025	Road Runner 115 kV	1	230/115	1			250/288
6/1/2015		533621	ALLEN 2	533641	MONARCH2		69		3.5		
6/1/2015		533633	Coal Creek	533646	TIOGA 2		69		8.6		
6/1/2019		507716	BROADMR2	507730	FTHUMB2	1	69		1.7		136/143
6/1/2019		508288	DAINGER2	508293	JENKNST2		69		1.3		132/178
6/1/2014		508543	HALLSVL2	508553	LONGVHT2	1	69		6.6		68/89
6/1/2014		508556	MARSHAL2	508543	HALLSVL2	1	69		11.2		68/89
6/1/2017		527482	CHAVES_CNTY3	527543	PRICE 3 115 kV	1	115		5		250/250
6/1/2017		527543	PRICE 3 115 kV	527542	CV-PINES 3 115 kV	1	115		3		245/245
6/1/2017		527542	CV-PINES 3 115 kV	527541	CAPITAN 3	1	115		5		245/265
6/1/2016		525028	BAILEYCO 3	525040	BAILEY_PMP 3	1	115	9.4			276/304
6/1/2014		533553	SC4ROME2	533560	WELLING2		69		9.1		96/96
6/1/2016		525040	BAILEY_PMP 3	525594	SUDANRURAL 3	1	115	11.7			276/304
6/1/2016		525600	LC Sandhill	525599	LC-SANDHILL2	1	115/69				84/84
6/1/2016		525594	SUDANRURAL 3	525600	LC Sandhill	1	115	8.6			276/304
6/1/2014		533822	NOEASTE2	533811	KENMAR 2		69		1.7		131/143
6/1/2016		525600	LC Sandhill	525608	AMHERST 3		115				276/304

6/1/2016		525608	AMHERST 3	525615	W Littlefld 3	1	115	13.71			276/304
6/1/2016		525615	W Littlefld 3	525636	LAMB_CNTY 3	1	115	8.6			276/304
6/1/2017		515127	WLDHRST2				69				9 Mvar
6/1/2018		533698	MONTGOM2	533690	ELK JCT2	1	69		9.7		72/72
6/1/2018		533690	ELK JCT2	533544	CV5SEDA2	1	69		18.8		72/72
6/1/2016		646301	s1301 5 161kV	647801	S6801 8 69kV		161/69				134/134
6/1/2016		647422	FREM B 8	647801	S6801 8 69kV		161/69	3			144/144
6/1/2016		646226	S1226 5	646301	s1301 5 161kV		161	17			377/377
6/1/2019		647906	S906 S 8	647924	S924 8		69		1.3		143/143
6/1/2019		647912	S912 8	647924	S924 8		69				99/99
6/1/2014		524606	HEREFORD 3				115				
6/1/2014		640445	Broken Bow Winnd 115 kV	640308	ORD 7	1	115	42			160/176
6/1/2019		514795	KNOBHIL4	514794	KNOBHIL2		138	0.09			228
6/1/2017		508536	LETRNST2	508594	Letournwt2 69 kV		69	0.3			150/150
6/1/2014		640284	N.LOUP 7	640308	ORD 7	2	115				137/151
6/1/2016		646366	S1366 5				161				
6/1/2015		515178	PARKLN 4	515318	AHLOSO4	1	138			4.3	268/286
6/1/2015		515318	AHLOSO4	515362	HARDEN4	1	138			10.1	268/286
6/1/2015		515500	FRISCO4	515362	HARDEN4	1	138			3.4	268/286
6/1/2015		515192	LULA 4	515500	FRISCO4	1	138			3.4	268/286
3/1/2018		700345	CHISHOLM7			1	230	2			1792/1792

1/1/2033						1	345/161				400/440
1/1/2033						1	345	18			1792/1792
1/1/2033		541197	SMARYVL7	300097	5MARYVL	1	345/161				400/440
1/1/2033						1	345/161				650/715
1/1/2033		640252	KEYSTON3	640325	REDWILO3	1	345	110			956/956
1/1/2033		525549	TOLK 7	525832	TUCO_INT 7	1	345	64			1792/1792
1/1/2033		531449	HOLCOMB7	531448	HOLCOMB3	2	345/115				435/435
1/1/2033		532797	WOLFCRK7	532793	NEOSHO 7	1	345	99			1792/1792
1/1/2033		300071	5CLINTN	505502	TRUMAN 5	1	161		29		554/554
1/1/2033		505502	TRUMAN 5	541314	NWARSAW5	1	161		2		554/554
1/1/2033						2	345/115				435/435
1/1/2033						1	345			17	1792/1792
1/1/2033						1	345			30	1792/1792
1/1/2033		515224	MUSKOGEE7	515235	PECANCK7		345				1195
6/1/2019		647907	S907 8	647919	S919 8		69		3.3		143
		514848	HEFNER 4	514847	TULSA 4		138		1.25		404/465
6/1/2018		524822	CURRY 3				115				
6/1/2015		511559	DARLINGTONRD4	514823	ROMNOSE4	1	138	14.25			278/316
		512710	KINZEGR4	512712	19TH ST4		138				203/238
6/1/2018		515012	SPVALLY2	515047	WARWICK4	1	138	13			268/286
6/1/2018		515401	PS32 4	515012	SPVALLY2	1	138	18			268/286
6/1/2018		515514		515012	SPVALLY2	1	138	5			268/286
		515020	PLCNTRT2	515413	CUSHOIL2		69				
6/1/2015	18	520915	FREEDOM			1	69				9.6 Mvar
6/1/2018		528185	NLOV_PLT 7	528223	CHINA_DRAW 7	1	345	18.2			1792/1792
6/1/2018		528185	NLOV_PLT 7	527965	POTASH_JCT 7	1	345	20.4			1792/1792
6/1/2015		527963	POTASH_JCT 6	527962	POTASH_JCT 3	1	230/115				250/288

6/1/2018		539001	ANTHONY	539668	HARPER 4	1	138	15.5			190/190
6/1/2015		539668	HARPER 4	539017	RAGO	1	138	15			190/190
6/1/2016		525845	CARMEN_138			1	138				70/70
3/31/2015							138				
6/1/2018		528223	CHINA_DRAW 7	528222	CHINA_DRAW 3	1	345/115				448/448
6/1/2018		528223	CHINA_DRAW 7			1	345				1792/1792
6/1/2018		527965	POTASH_JCT 7			1	345				1792/1792
6/1/2018		528185	NLOV_PLT 7	528186	NLOV_PLT TR1	1	345/115				448/448
6/1/2018		528185	NLOV_PLT 7				345				1792/1792
6/1/2016		525845	CARMEN_138	520845	CARMEN 2	1	138/69				70/70
6/1/2016		521302	CHERTAP	520850	CHEROKJ2	1	138/69				70/70
6/1/2016		521302	CHERTAP	525845	CARMEN_138	1	138		11.5		183/228
6/1/2018		528027	RDRUNNER 345 kV	528025	RDRUNNER 115 kV	1	345/115				448/448
6/1/2018		528027	RDRUNNER 345 kV			1	345				1792/1792
4/1/2015		528220	CHDRAW_SVC 1			1	115				
6/1/2018		527965	POTASH_JCT 7			1	345/115				448/644
6/1/2018		528222	CHINA_DRAW 3	528246	YESO_HILLS 3	1	115	18.4			276/304
6/1/2018		527965	POTASH_JCT 7	528027	RDRUNNER 345 kV	1	345			2	1792/1792
6/1/2018		528566	SUB#5_SVC 1			1	115				239/304

6/1/2018		528561	DOLLARHIDE 3	528566	SUB#5_SVC 1	1	115	7.4			276/304
6/1/2018		527965	POTASH_JCT 7	527896	HOBBS_INT 7		345	47.24			1792/1792
6/1/2018		528240	PONDEROSA 3			1	115				239/304
6/1/2018		528239	DISTSUB3TP 3			1	115				239/304
6/1/2015		527080	EL_PASO 3	527146	MUSTANG_N 3	1	115	2.82			
6/1/2015		528604	ANDREWS 7	528601	ANDREWS_TR11	1	230/115				250/288
6/1/2015		528602	ANDREWS 3	528603	NA_ENRICH 3		115	2.1			276/304
6/1/2023		539002	HAZELTON_138	539003	HAZELTON_115	1	138/115				250/275
6/1/2016		521302	CHERJTAP			1	138				183/228
6/1/2016		640500	CHERRY C3 345.00	640381	THEDFRD7	1	345/115				400/400
6/1/2020	40	525832	TUCO_INT 7	525830	TUCO_INT 6	3	345/230				560/644
		509083	ROKHILL4	509082	ROKHILL2		138/69				
		301425	4GLENCOE				138				14.4 Mvar
6/1/2024		515044	SEMINOL4	515178	PARKLN 4	1	138				290
6/1/2018		528226	HOPI_SUB 3	528178	PECOS 3	1	115	11			178/178
6/1/2018		528239	DISTSUB3TP 3	528240	PONDEROSA 3	1	115	9.3			276/304
6/1/2018		527953	LIVSTNRIDGE3			1	115				239/304
6/1/2018		527955	RDRUNNER 3			1	115				239/304
6/1/2018		527953	LIVSTNRIDGE3	527955	RDRUNNER 3	1	115	13.9			276/304
6/1/2018		527957	LAGARTO 3			1	115				239/304
6/1/2018		527957	LAGARTO 3	527955	RDRUNNER 3	1	115	10.4			276/304
6/1/2018		528222	CHINA_DRAW 3	528228	WOOD_DRAW 3	1	115	14			276/304

6/1/2023		526337	JONES_BUS1 6	526269	LUBBCK_STH 6	3	230	5.43			502/502
6/1/2023		526524	WOLFFORTH 3	526736	TERRY_CNTY 3	1	115		20.5		276/304
6/1/2015		528182	NORTH_LOVNG3	528191	S_LOVING_TP3	1	115	7			276/304
6/1/2018		528596	NA_ENRICHTP3			1	115				239/304
6/1/2015		528035	IMC1_TP 3	527953	LIVSTNRIDGE3	1	115		9.5		
6/1/2015		528239	DISTSUB3TP 3	528540	WHITTEN 3	1	115		5.9		276/304
6/1/2015		527999	INTREPDW_TP3	527962	POTASH_JCT 3	1	115		1.5		276/304
6/1/2015		527999	INTREPDW_TP3	528035	IMC1_TP 3	1	115		3.9		276/304
		526435	SUNDOWN 6	526460	AMOCO_SS 6	1	230		5.2		478/504
6/1/2023		526435	SUNDOWN 6	526434	SUNDOWN 3	1	230/115				250/288
6/1/2023		531445	GRDNCTY3	531448	HOLCOMB3	1	115				155/189
		531362	MANNGT 3				115				3 Mvar
2023		640176	FULERTN7	640434	CEN.C.N7		115	15			
6/1/2018		528596	NA_ENRICHTP3	527957	LAGARTO 3	1	115	17.5			276/304
2023		647006	S906 N 8	647928	S928 8		69				
2023		647901	S901 8	647105	JCT205 8		69		1.1		
2023		647910	S910 8	647105	JCT205 8		69		2.9		
2023		647907	S907 8	647919	S919 8		69		3.4		
6/1/2018		528246	YESO_HILLS 3			1	115				239/239
							115				14.4 Mvar
6/1/2015		539001		539004		1	138	8			190/190
6/1/2022		525830	TUCO_INT 6	525828	TUCO_INT 3	1	230/115				252/288

6/1/2015		539004	BLUFF_CITY	539005	CALDWELL	1	138	18			190/190
6/1/2015		539005	CALDWELL	539006	MAYFIELD	1	138	13			190/190
6/1/2015		539006	MAYFIELD	539676	MILAN 4	1	138	5			190/190
6/1/2016		640500	CHERRY3 345.00			1	345				400/400
6/1/2015		511560	GRADY4	511513	LWATER 2	1	138	8.61			278/316
6/1/2019		514795	KNOBHIL4	520201	NOEL_SW	1	138				
							69				6 Mvar
6/1/2018		507771	CEDARGR4	507755	S SHV 4		138		2.3		266
3/1/2019		507723	ELLERBE2	507739	LUCAS 2	1	69		3.2		119/119
3/1/2019		507723	ELLERBE2				69				119/119
		515375	WWRDEHV7				345				
		526935	YOAKUM 6	526934	YOAKUM 3	1	230/115				250/250
6/1/2015		530700	MWPMPTP				115				239/239
6/1/2015		530700	MWPMPTP	530701	MWPUMP	1	115	6			164/199
		526935	YOAKUM 6	526934	YOAKUM 3		230/115				250/250
							115				
4/1/2020		508342	GRANDSL2	508347	MINEOLA2	1	69		13.8		140/143
4/1/2018		524516	CANYON_WEST3	524590	DAWN 3	1	115		13.7		273/273
4/1/2018		524590	DAWN 3	524597	PANDAHFD 3	1	115		8.4		273/273
4/1/2018		524622	DEAFSMITH 3	524597	PANDAHFD 3	1	115		3.5		273/273

10/1/2015		525830	TUCO_INT 6	526161	CARLISLE 6		230				
6/1/2015						1	138	13.2			
10/1/2015							230				57.6 Mvar
10/1/2015							230	50			
10/1/2015							230/115				
							69				
							69				
							115				14.4 Mvar
							230				50 Mvar
6/1/2015		528582	BYRD 3	528568	MONUMNT_TP 3	1	115		3.8		239/239
4/1/2015		528025	RDRUNNER 115 kV			1	115				
6/1/2019		645459	S3459 3	646209	S1209 5	1	345/161				400/440
6/1/2019		645459	S3459 3			2	345/161				
4/1/2019	24	515802	GRACMNT4	520814	ANADARK4	1	138		5.3		286/286
4/1/2019		514901	CIMARON7	514934	DRAPER 7	1	345				1195/1195
1/1/2019		526435	SUNDOWN 6	526460	AMOCO_SS 6	2	230				437/437
6/1/2019		507755	S SHV 4	507765	WALLAKE4	1	138		11.2		246/246
6/1/2018	18	512651	CLARMR 5	512656	GRDA1 5	1	161				261/261
6/1/2019		528027	RDRUNNER 345 kV	528025	RDRUNNER 115 kV	2	345/115				448/448
1/1/2019		640287	N.PLATT7	640365	STOCKVL7	1	115		39.4		240/240
1/1/2019		640365	STOCKVL7	640326	REDWILO7	1	115		21		240/240
1/1/2019		542982	IATAN 7				345				1195/1195
6/1/2022	24	525481	PLANTX 6	525480	PLANTX 3		230/115				250/288

6/1/2021	24	533157	FORBES 3	533189	UNDERPN3	1	115		3.1		218/262
6/1/2024	24	533044	GILL E 4	533051	INTERST4	1	138		6.3		286/286
6/1/2022	30	524122	Bush Tap 3	524136	HASTINGS 3	1	115	3			384/422
6/1/2024	24	532779	Moundrg7	532796	WICHITA7	1	345				
6/1/2024	24	532779	Moundrg7	533013	MOUND 4	1	345/138				280/308
6/1/2021	24	527024	ALLRD&CORTZ3				115				14.4 Mvar
6/1/2019		526928	LE-PLAINS 3			1	115				14.4 Mvar
6/1/2022	24	528222	CHINA_DRAW 3			1	115				14.4 Mvar
6/1/2022	24	528182	NORTH_LOVNG3			1	115				14.4 Mvar
6/1/2023	24	531412	GRINNEL3			1	115				6 Mvar
4/1/2020		524415	AMA_SOUTH 6	525213	SWISHER 6	1	230				478/502
6/1/2022	24	525830	TUCO_INT 6	525828	TUCO_INT 3	1	230/115				252/288
4/1/2023	30	510897	LONEOAK4	510944	ENOWILT4	1	138		0.3		286/286
4/1/2023	30	510944	ENOWILT4	510926	SARDIS 4	1	138		22.5		286/286
4/1/2023	30	510926	SARDIS 4	510919	CLAYTON4	1	138		3.6		286/286
4/1/2023	30	510919	CLAYTON4	510927	NASHOBA4	1	138		11.6		286/286
4/1/2023	30	510927	NASHOBA4	510928	BETHEL 4	1	138		22.4		286/286
4/1/2023	30	510928	BETHEL 4	505614	BRKN BW4	1	138		16.3		286/286
6/1/2023	18	509815	S.S.---4	509758	PRATTV-4	1	138				265/309
6/1/2019		528027	RDRUNNER 345 kV			2	345				

6/1/2015		531451	MINGO 7			2	345				289/308
		528566	SUB#5_SVC 1			1					
		539778	GYCOTAP3	539659	CUDAHY 3	1	115	20			210/256
6/1/2016		511477	S.W.S.-4	511445	CARNEG-4	1	138		16.5		272/376
		528232	OCHOA 3	528540	WHITTEN 3	1	115		15		239/239
6/1/2016		527930	PCA 3	528394	Quahada 115 kV	1	115		11.1		239/239
6/1/2015		515054	MAUD 2	515503	LTRIVRT2	1	69		10.7		72/72
6/1/2016		520203	BYRON_138	520207	Byron	1	138/69				
6/1/2015		527963	POTASH_JCT 6			1	230				100 Mvar
6/1/2015		543063	SWAVRLY5	543094	SWAVRLY2	1	161/69				50/55
		549959	BATTLEFIELD5	549979	Battlefield2	1	161/69				150/150
		549959	BATTLEFIELD5	549979	Battlefield2	1	161/69				150/150
6/1/2016		640580	Bassett			1	115				
6/1/2019		515011	STILWTR4	999919	STLWTR2	1	138/69				123/134
		539654	CIM-PLT3	539654	CIM-PLT3	1	115		4.1		240/240
6/1/2019		526656	LYNN_CNTY 3	526655	LYNN_CNTY 2	1	115/69				84/84
6/1/2017		507738	LINWOOD4	507771	CEDARGR4	1	138		2.4		272/376
6/1/2015		531469	SPERVIL7	531501	BUCKNER7	1	345				1526/1526
6/1/2016		547526	JOP 64 2	547525	JOP 59 2	1	69		1.3		113/129
6/1/2015		532986	BENTON 4	532791	BENTON 7	1	138				400/440
6/1/2015		512661	CPPXF#22			1	69				102/123
6/1/2019		524648	CARGILL 3				115				14.4 Mvar
6/1/2016		507717	BROOKS 2	507722	EDWARDS2	1	69		0.8		136/143
6/1/2015		515202	WELLS 2			1	69				
6/1/2020		520408	WINCHESTER2				69				5 Mvar
6/1/2019		521068	THAKRVL2				69				3 Mvar
		527963	POTASH_JCT 6	527962	POTASH_JCT 3	1	230/115				250/288

6/1/2017		512676	COLNSGR2			1	69				44/44
		530555	COLBY 3				115				12 Mvar
		530555	COLBY 3				115				48 Mvar
		530557	BEACH 3				115				18 Mvar
6/1/2015		531512	WALKTAP7			1	345				956/1052
6/1/2015		527552	RIAC 2			1	115				276/304
6/1/2015		531405	WALKMYR3			1	115	1			281/304
6/1/2015		531405	WALKMYR3			1	115				
6/1/2019		539737	NLIB 3			1	115				
6/1/2015						1	115		3		276/304
6/1/2015		527953	LIVSTNRIDGE3	528035	IMC1_TP 3	1	115		9.5		240/240
6/1/2015		528603	NA_ENRICH 3	528540	WHITTEN 3	1	115		4.3		276/304
		532771	RENO 7	532779	Moundrg7	1	345	15.11			1310/1570
		532779	Moundrg7	532796	WICHITA7	1	345	28.05			1310/1570
		532779	Moundrg7	533013	MOUND 4	1	345/138				280/308
	24	523931	HIGHLAND_TP3			1	115				
		511464	HOB-JCT2	511465	HOBART-2	1	115				65/76
6/1/2016						1	138/69				
6/1/2015		543063	SWAVRLY5			1	161/69				
6/1/2019		515011	STILWTR4			1	138				
6/1/2019		526656	LYNN_CNTY 3			1	115				

6/1/2019		539662	ELLSWTH3			1	115				14.4 Mvar
6/1/2020							115		3.5		239
6/1/2020							115		4.9		239
6/1/2015							115/69				
6/1/2020						1	115		7.1		140/140
6/1/2016							115				9 Mvar
2/1/2015							138				40 Mvar
2/1/2015							138				40 Mvar
2/1/2015							69				4.8 Mvar
							69				4.8 Mvar
6/1/2021		526192	MURPHY 3				115				159/175
1/1/2019		541350	IATAN5	541231	STRANGR5	1	345			18.2	1195/1195
1/1/2019		541350	IATAN5	541231	STRANGR5	1	345			10.83	1195/1195
							115				
6/1/2014		515242	BLUEBEL4				138				272/287
		525830	TUCO_INT 6				230				
							345				

12/1/2015							138				20 Mvar
12/1/2015							138				
6/1/2008						1	138				
		659101	ANTELOP3				345				
		659183	CHAR.CK3				345				
		659333	JUDSON				345				
		659333	JUDSON	652400	WILISTN4	1	230	2			
		652400	WILISTN4				230				
		659333	JUDSON	659336	TANDE	1	345	58			956/1052
		659336	TANDE				345				
		659138	NESET 4	659336	TANDE	1	230	2			
		659138	NESET 4				230				
		659312	LOWERBRULE 4	659310	WITTEN 4	1	230	65			400/440
		659312	LOWERBRULE 4				230				
		659312	LOWERBRULE 4	659310	WITTEN 4		230				
6/1/2015							345/115				
4/1/2016							69				15 Mvar
10/1/2016							138				9 Mvar
							115		11.5		
6/1/2017							115				12 Mvar

6/1/2017							115				12 Mvar
6/1/2016							230				
							138				
							115				
							230				
							115				
							115		10.3		
							345				
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							138				
		512651	CLARMR 5	512679	CLARMR 2	1	161/69				69/171
		512651	CLARMR 5	512679	CLARMR 2	2	161/69				69/171
		512651	CLARMR 5			1	161				171
		512651	CLARMR 5			2	161				171

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							115				
	18						138				