Kentucky Utilities Company/Louisville Gas and Electric Company
Transmission Construction Projects

Project No.	DESCRIPTION	Expected Completion Date
1	Install a third 138/69 kV, 150 MVA transformer at Middletown.	Dec-04
2	Replace the 1272 AA conductor in the Middletown-Aiken 69 kV line (circuit 6657) with 2000 kcm conductor or equivalent. Reconductor the six-wired 336/636 kcm ACSR with six-wired 795 kcm ACSR.	Dec-04
3	Reconductor the Middletown-Finchville 69 kV line using 397 kcm ACSR conductor.	Dec-04
4	Close the Tip Top 69 kV bus tie breaker and install a 69 kV, 19.2 MVAR capacitor at Tip Top #1.	Dec-04
5	Remove the Spurlock-Kenton circuit #2 138 kV line.	Mar-05
6	Close the East Bernstadt 69 kV interconnection with EKPC by looping the Pittsburg-Lancaster 69 kV line through EKPC's East Bernstadt station.	Mar-05
7	Install a 69 kV, 14.4 MVAR capacitor at Leitchfield East.	May-05
8	Reconductor the 397 kcm ACSR conductor in the Madisonville South Tap to McCoy Avenue section of the Madisonville loop with 556 kcm ACSR.	May-05
9	Replace the 336 kcm ACSR conductor in the Mud Lane-Smyrna 69 kV line with 954 kcm ACSR conductor. Open Fairmount-6662 Tap and close Fairmount bus tie switch.	May-05
10	Install a 69 kV, 30 MVAR capacitor at Boone Avenue.	May-05
11	Install a 69 kV line exit at Middletown and at Ford for the Middletown-Ford circuit.	May-05
12	Construct 7.5 miles of 138 kV line from Middletown to Ford using 954 kcm ACSR conductor and operate this line at 69 kV.	May-05
13	Replace the 266 kcm ACSR conductor in the Ohio County-Rosine Jct. section of the Ohio County-Leitchfield 69 kV line with 556 kcm ACSR conductor.	May-05
14	Remove the 5% reactor from the Kenton-Rodburn 138 kV line.	May-05
15	Open the KU-EKPC Goddard 138 kV interconnection.	May-05
16	AEP taps the Arnold-Delvinta 161 kV line to connect to the Hazard-Leslie 161 kV line.	Nov-05
17	Install a 69 kV, 26.4 MVAR capacitor at the KU Hodgenville #744 station.	May-06
18	Install a third 138/69 kV, 112 MVA transformer at East Frankfort (use the spare 112 MVA removed from Loudon Avenue). Reconfigure the bus such that two transformers and two lines to Frankfort City stay in service during any contingency.	May-06
19	Install a 69 kV line exit at Loudon Avenue for the Loudon Avenue-Lakeshore/Bryant Road 69 kV circuit.	May-06
20	Construct 4.2 miles of 69 kV line from Loudon Avenue to the Lakeshore/Bryant Road tap using 795 kcm ACSR conductor. Serve the Lakeshore and Bryant Road loads radially from this line.	May-06
21	Construct 6 miles of 138 kV line using 556 kcm ACSR conductor	May-06

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Project No.	DESCRIPTION	Expected Completion Date
	from EKPC's Avon - Renaker 138 kV line to the 69 kV breaker station at Paris.	
22	Install a 138/69 kV, 150 MVA transformer at Paris.	May-06
23	Install a 69 kV line exit at Lebanon for the Lebanon-Lebanon Industrial 69 kV line.	May-06
24	Construct 1.2 miles of 69 kV line from Lebanon to Lebanon Industrial using 397 kcm ACSR conductor.	May-06
25	Install a 69 kV, 28.8 MVAR capacitor at Versailles.	May-06
26	Increase the maximum operating temperature of the 397 kcm ACSR conductor in the Paris to Detroit Harvester Tap section of the Paris to Lexington Plant 69 kV line to 212F.	May-06
27	Install a second 138-69 kV, 150 MVA transformer at Fawkes.	May-06
28	Construct 8 miles of 138 kV line from Virginia City to AEP's Clinch River substation using 556 kcm ACSR conductor.	Nov-06
29	Install a 138/69 kV, 120 MVA transformer at Virginia City.	Nov-06
30	Replace the Spencer Road 138/69 kV, 33 MVA transformer with a 93 MVA transformer. (Use the transformer removed from West Cliff). Operate the two transformers at Spencer Road in parallel.	May-07
31	Replace the Spencer Road 138/69 kV, 56 MVA transformer with a 93 MVA transformer.	May-07
32	Construct 1.6 miles of 69 kV line from Ewington to AO Smith using 397 kcm ACSR conductor. Operate Ewington and AO Smith radially from Spencer Road.	May-07
33	Replace the 397 kcm ACSR conductor in the Sylvania-Parker Seal section of the Clark County-Winchester 69 kV line with 795 kcm ACSR conductor.	May-07
34	Install a 69 kV, 33.0 MVAR capacitor at Rogersville.	May-07
35	Construct 1.5 miles of 69 kV line from Lebanon Industrial to Lebanon City using 397 kcm ACSR conductor. Serve Lebanon City on this radial from Lebanon.	May-07
36	Install a 12.0 MVAR capacitor at Olin Corp.	May-07
37	Replace the 556 kcm ACSR conductor in the Fawkes KU-Fawkes EKPC Tap section of the Fawkes-Lake Reba Tap 138 kV line with 795 kcm ACSR.	Nov-07
38	Install a 69 kV, 42.0 MVAR capacitor at Farley.	May-08
39	Reconductor the Dix Dam-Wilmore Tap section of the Dix Dam-Higby Mill 69 kV line with 556 kcm ACSR conductor.	May-08
40	Convert the Middletown-Ford 69 kV line to 138 kV and install a 138/69 kV, 150 MVA transformer at Ford.	May-08
41	Replace the West Cliff 138/69 kV, 93 MVA transformer with a 120 MVA transformer.	May-08
42	Install a 69 kV, 18.0 MVAR capacitor at Middlesboro #780.	May-08
43	Install a 69 kV, 10.8 MVAR capacitor at Metal & Thermit.	May-08

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Project No.	DESCRIPTION	Expected Completion Date
44	Replace the 397 kcm ACSR conductor in the Tyrone-Florida Tile Tap section of the Tyrone-Bonds Mill 69 kV line with 556 kcm ACSR conductor.	May-09
45	Replace the 397 kcm ACSR conductor in the Florida Tile Tap-Lawrenceburg section of the Tyrone-Bonds Mill 69 kV line with 556 kcm ACSR conductor.	May-09
46	Replace the 397 kcm ACSR conductor in the Fawkes-Richmond South section of the Fawkes-Okonite 69 kV line using 556 kcm ACSR conductor.	May-09
47	Replace the 397 kcm ACSR conductor in the Laurel County EKPC-Hopewell section of the Laurel County EKPC-Sweet Hollow 69 kV line using 556 kcm ACSR.	May-09
48	Install a third 138/69 kV, 60 MVA transformer at Carrollton.	May-09
49	Reconductor the Horse Cave Tap 69 kV line with 397.5 kcm ACSR conductor.	May-09
50	Install a 69 kV, 64.8 MVAR capacitor at Dahlia.	May-09
51	Replace the Pineville 161/69 kV, 93 MVA transformer with a 120 MVA unit.	Nov-09
52	Install two 345 kV line exits at Trimble Co and build 2.8 miles of double circuit 345 kV line to Cinergy's Ghent to Speed 345 kV line.	Dec-09
53	Construct approximately 43 miles of 345 kV line from Mill Creek to Hardin County using bundled 954 kcm ACSR conductor.	Dec-09
54	Construct 10.2 miles of 138 kV line between West Frankfort and Tyrone using 795 kcm ACSR conductor.	Dec-09
55	Construct 11.8 miles of 138 kV line between West Lexington and Higby Mill using 556 kcm ACSR conductor.	Dec-09
56	Construct a 138 kV line between Elizabethtown and Hardin County using 795 kcm ACSR conductor.	Dec-09
57	Reconductor the Ghent-Owen County Tap section of the Ghent-Scott County 138 kV line using 954 kcm ACSR conductor.	Dec-09
58	Replace the 138/69 kV, 112 MVA transformer at Higby Mill between breakers 66-708 and 66-608 with a 150 MVA transformer.	May-10
59	Construct a 69 kV circuit from Middletown to Collins using the open circuit on the Middletown to Ford double-circuit towers.	May-10
60	Replace the 1033 kcm ACSR conductor in the Northside-Jeffersonville Jct. section of the Northside-Beargrass 138 kV line (circuit 3882) with bundled 954 kcm ACSR conductor.	May-10
61	Install a second 345/138 kV, 450 MVA transformer at Hardin County.	May-10
62	Install a fourth 345/138 kV, 450 MVA transformer at Middletown.	May-10
63	Construct 3.5 miles of 69 kV line from Pineville #722 to the Pineville to Calloway section of the Pineville to Rocky Branch 69 kV line using 556 kcm ACSR conductor. Operate Pineville #722 from the Pineville to Calloway 69 kV line section.	Nov-10

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Project No.	DESCRIPTION	Expected Completion Date
64	Reconductor the 266 kcm ACSR conductor in the Lake Reba-Waco section of the Lake Reba-West Irvine 69 kV line with 397 kcm ACSR conductor.	Nov-10
65	Install a 69 kV, 33.0 MVAR capacitor at Clark County.	May-11
66	Install a 69 kV, 42.0 MVAR capacitor at Danville North.	May-11
67	Install a 138/69 kV, 120 MVA transformer at Hardin County.	May-11
68	Install a 69 kV, 33.0 MVAR capacitor at Shun Pike.	May-11
69	Replace the 138-69 kV, 112 MVA transformer at Danville North with a 150 MVA transformer.	May-11
70	Replace the 266 kcm ACSR conductor in the Parkers Mill Tap-Parkers Mill section of the line tapping the Pisgah-Lexington Plant 69 kV line with 397 kcm ACSR conductor.	May-11
71	Reconductor the 266 kcm ACSR conductor in the Etown-Etown #5 69 kV line section using 397 kcm ACSR conductor.	May-11
72	Install a 69 kV, 18.0 MVAR capacitor at Cynthiana South.	May-11
73	Replace the 161/69 kV, 56 MVA transformer at Taylor County with a 90 MVA unit.	May-11
74	Install three 138 kV breakers at Knob Creek.	May-11
75	Construct 2 miles of 138 kV line from the Mill Creek-Kosmos Cement 138 kV line to Knob Creek. Rebuild 0.5 miles of 195.7 ACSR in the Mill Creek-Kosmos Cement 138 kV line using 795 ACSR conductor.	May-11
76	Install a 138/69 kV, 150 MVA transformer at Danville North.	May-12
77	Install a 138 kV line exit at Middletown for the Middletown-Bluegrass Parkway 138 kV circuit.	May-12
78	Construct 4.0 miles of 138 kV line from Middletown to Bluegrass Parkway using 1272 kcm ACSR conductor.	May-12
79	Install 138 kV breakers on the Lebanon 138-69 kV transformers.	May-12
80	Replace the 1033 kcm ACSR conductor in the Northside-Beargrass 138 kV line (circuit 3883) with bundled 954 kcm ACSR conductor.	May-12
81	Install 138 kV breakers at Pisgah and install a second Pisgah 138/69 kV, 112 MVA transformer. (Use transformer removed from Higby Mill).	May-12
82	Replace the 138/69 kV, 93 MVA transformer at Clark County with a 150 MVA transformer.	May-12
83	Energize the second Brown North-Pineville 345 kV circuit.	Nov-12
84	Replace the 161-69 kV, 56 MVA transformer at Beattyville with a 90 MVA unit.	Nov-12
85	Replace the 266 kcm ACSR conductor in the Rosine Jct.-Caneyville Jct. section of the Ohio County-Leitchfield 69 kV line with 556 kcm ACSR conductor.	May-13
86	Reconductor the Avon EKPC-Loudon Avenue 138 kV line using bundled 556 kcm ACSR conductor.	May-13

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Project No.	DESCRIPTION	Expected Completion Date
87	Install a second 345/138 kV, 450 MVA transformer at Brown North	May-13
88	Reconductor the 266 kcm ACSR conductor in the Green County EKPC-Greensburg KU section of the Green County EKPC-Taylor County 69 kV line using 397 kcm ACSR conductor.	May-13
89	Reconductor the 266 kcm ACSR conductor in the Adams to Toyota South 138 kV line with 556 kcm ACSR conductor.	May-13
90	Construct 19 miles of 138 kV line from Brown CT to Danville North using 954 kcm ACSR conductor.	May-13
91	Replace the 266 kcm ACSR conductor in the Spencer Road-AO Smith Tap-Camargo sections of the Spencer Road-Clark County 69 kV line with 397 kcm ACSR conductor.	May-14
92	Replace the 138/69 kV, 93 MVA transformer at Bardstown with a 120 MVA transformer.	May-14
93	Replace the Lansdowne 138-69 kV, 112 MVA transformer with a 150 MVA unit.	May-14
94	Install a third 138/69 kV, 112 MVA transformer at Cane Run Switching Station. (Use spare transformer stored at the EOC).	May-14
95	Replace the 266 kcm ACSR conductor in the Adams-Delaplain Tap section of the Adams-Millersburg 69 kV line with 397 kcm ACSR conductor.	May-14
96	Replace the West Frankfort 138/69 kV, 93 MVA transformer with a 120 MVA transformer.	May-14
97	Replace the Rogersville 138/69 kV, 93 MVA transformer with a 120 MVA transformer.	May-14
98	Replace the bundled 1/0 Cu conductor in the Lexington Plant-Buchanan section of the Lexington Plant-Pisgah 69 kV line with 556 kcm ACSR conductor.	May-14