Exhibit No.:

Issue: Cash Working Capital Witness: Christine M. Davidson

Type of Exhibit: Direct Testimony

Sponsoring Party: Kansas City Power & Light Company
Case No.: ER-2006Date Testimony Prepared: January 27, 2006

MISSOURI PUBLIC SERVICE COMMISSION

CASE NO. ER-2006-____

DIRECT TESTIMONY

OF

CHRISTINE M. DAVIDSON

ON BEHALF OF

KANSAS CITY POWER & LIGHT COMPANY

Kansas City, Missouri January 2006

DIRECT TESTIMONY

OF

CHRISTINE M. DAVIDSON

Case No. ER-2006-____

1	Q:	Please state your name and business address.
2	A:	My name is Christine M. Davidson. My business address is 1201 Walnut, Kansas City,
3		Missouri 64106-2124.
4	Q:	By whom and in what capacity are you employed?
5	A:	I am employed by Kansas City Power & Light Company ("KCPL") as a Senior
6		Regulatory Analyst.
7	Q:	What are your responsibilities?
8	A:	My responsibilities include assistance in general regulatory matters and in preparation of
9		the jurisdictional cost of service included in KCPL's rate filings.
10	Q:	Please describe your education, experience and employment history.
10 11	Q: A:	Please describe your education, experience and employment history. I have a Bachelor of Science degree with a major in accounting from Kansas State
11		I have a Bachelor of Science degree with a major in accounting from Kansas State
11 12		I have a Bachelor of Science degree with a major in accounting from Kansas State University and a Master of Science degree with an emphasis in accounting from the
11 12 13		I have a Bachelor of Science degree with a major in accounting from Kansas State University and a Master of Science degree with an emphasis in accounting from the University of Missouri – Kansas City. I am a Certified Public Accountant with a license
11 12 13 14		I have a Bachelor of Science degree with a major in accounting from Kansas State University and a Master of Science degree with an emphasis in accounting from the University of Missouri – Kansas City. I am a Certified Public Accountant with a license to practice in both Kansas and Missouri. I have been employed by KCPL for 30 years,
11 12 13 14 15		I have a Bachelor of Science degree with a major in accounting from Kansas State University and a Master of Science degree with an emphasis in accounting from the University of Missouri – Kansas City. I am a Certified Public Accountant with a license to practice in both Kansas and Missouri. I have been employed by KCPL for 30 years, the first 29 of which were spent in various supervisory and managerial positions in the

1		effort, I completed an updated lead/lag study for cash working capital about which I am
2		filing testimony today.
3	Q:	Have you previously testified in a proceeding at the Missouri Public Service
4		Commission ("MPSC") or before any other utility regulatory agency?
5	A:	Yes, I have filed written testimony in previous cases before the MPSC.
6	Q:	What is the purpose of your testimony?
7	A:	The purpose of my testimony is to support the amount of cash working capital included
8		in rate base on Schedule 15 of the revenue requirement model, which is attached to the
9		direct testimony of KCPL witness Don A. Frerking as part of Schedule DAF-1
0		("Schedule 15").
1	Q:	How did you determine the amount of cash working capital?
2	A:	I completed a lead/lag study and applied resulting lead/lag factors to appropriate cost of
3		service amounts.
4	Q:	Please explain briefly the process you followed to complete the lead/lag study.
5	A:	I analyzed cash related transactions in three groups: 1) accounts payable transactions,
6		2) other cash-related transactions excluding revenues, and 3) revenues.
7	Q:	How did you analyze accounts payable transactions?
8	A:	1) For each payment group used by the MPSC staff in recent rate cases, I identified
9		the financial accounts that would be charged/credited to that payment group when
20		recording KCPL transactions.
21		2) Information Technology ("IT") wrote separate queries on the PeopleSoft
22		Accounts Payable database for each payment group that isolated all payment transactions
23		for that payment group using the accounts identified in 1) above. Transactions not

identified to a specific payment group were placed in a group titled "Other Cash Vouchers." Queries were run for the twelve-month period October 2004 through September 2005.

- The IT query indicated, among other information, the invoice date (or check request date if internally generated) and the date the check cleared the bank. The IT query then subtracted the invoice date from check-cleared date, indicating the number of days of payment lag, excluding service period.
- I analyzed each payment group separately. I sampled actual invoices to identify the applicable service period. Transactions with dissimilar service periods were segregated into sub-groups. Where appropriate, such as for sales taxes, payments were further segregated by state to allow separate analysis and calculation of lag periods. An average service period was determined by dividing each total service period by 2.
- 5) After each payment group was segregated as necessary, invoices sampled and service period identified, I calculated the total number of lag days for both average service period and payment lag for each payment group. Where a payment group had multiple service periods, such as coal (*i.e.*, fuel vs. fuel transportation), I calculated a weighted lag.
- Payment lags were posted to a summary sheet for each payment group. This summary sheet is included in KCPL's Revenue Requirements Model, which is attached to the direct testimony of KCPL witness Don A. Frerking as Schedule DAF-1, as Schedule CWC%-Cash Working Capital Percents ("CWC%"). For ease of reference, I have attached a copy of this schedule to this testimony as Schedule CMD-1.

1	Q:	What was the range of payment lags that you calculated for these cash transactions
2		through the accounts payable system?
3	A:	As shown on Schedule CMD-1, payment lags ranged from 8.5 days for oil purchases to
4		200.42 days for property taxes. The two largest groups of costs, "Purchased Coal &
5		Freight" and "Other Cash Vouchers," resulted in calculated payment lags of 21.08 days
6		and 39.15 days, respectively.
7	Q:	What was included in other cash-related transactions, excluding revenues?
8	A:	Other cash-related transactions, excluding revenues, included net payroll, annual
9		accruals, bulk power sales, pensions, income taxes and interest expense.
10	Q:	How did you determine a payment lag for net payroll?
11	A:	I scheduled each pay date during the twelve-month period and calculated the days from
12		the end of the pay period to the paycheck date. The sum of the total days lag was divided
13		by the number of pay periods to determine a weighted payment lag. When added to the
14		average service period lag, this resulted in a total lag for net payroll of 14.44 days. Most
15		paychecks are deposited through direct deposit so no check float was included.
16	Q:	What was included in the "annual accrual" category and how did you analyze it?
17	A:	Annual accruals included Accrued Vacation Reserve and Wolf Creek Refueling Outage.
18		Service periods and payment lags were calculated separately for each accrual. Vacations
19		are earned and accrued in one year and taken in the subsequent year. The Wolf Creek
20		refueling outage costs are accrued beginning with the month following the end of the
21		prior refueling outage. As actual costs are incurred during the 18-month cycle, the
22		accrual is reversed by a like amount. I analyzed the timing and reversals of accruals
23		related to the spring 2005 refueling cycle. Payment lags for accrued vacations and

1		accrued Wolf Creek Refueling Outage costs were calculated as 344.83 days and
2		215.07 days, respectively.
3	Q:	How did you analyze bulk power sales?
4	A:	I calculated service periods and payment lags using a schedule of bulk power sales
5		transactions received from Accounting for the twelve-month period October 2004
6		through September 2005. Because the benefit from bulk power sales accrues to the
7		ratepayer as a reduction of cash requirements, all lags were reflected on the summary as
8		negative amounts. This negative lag was (36.88) days.
9	Q:	How did you determine the lead/lag for pension expense?
10	A:	In the Stipulation and Agreement approved by the MPSC in Case No. EO-2005-0329, the
11		signatory parties agreed that KCPL had a net prepaid position for pensions to be drawn
12		down before KCPL must fund the entire amount of pension costs allowed for ratemaking
13		Therefore, pensions are considered funded at the time expensed and a 0 day lag was
14		attributed to pension expense.
15	Q:	How did you determine the lead/lag for income tax expense?
16	A:	KCPL is required to make estimated income tax payments each quarter based on the
17		proportionate year to date cumulative percentage of taxable income to an annualized
18		amount of taxable income. Accordingly, a service period of 365 days/4 or 91.25 days
19		was established with a corresponding average service period of 91.25/2 or 45.63 days.
20	Q:	How did you calculate a lead/lag for interest expense?
21	A:	Instead of using actual cash payments of interest during the twelve-month period, I used
22		the annualized interest expense based on long-term debt outstanding at September 30,
23		2005. I multiplied the annualized interest amount by the frequency of payment and

1		calculated a weighted average service period. Because all amounts were paid by wire
2		transfer on the date due, there was no payment lag other than service period. The
3		payment lag for interest expense was 86.55 days.
4	Q:	What did you do with the results of the analysis of other cash transactions,
5		excluding revenues?
6	A:	As with the payment lags for accounts payable transactions, I posted these lag days on the
7		summary sheet included as Schedule CMD-1.
8	Q:	How was the lead/lag on revenues calculated?
9	A:	The lead/lag on revenues was calculated with separate service period, billing and
10		collection lags. The average service period and billing lags were calculated and reflect
11		lags of 15.21 and 2.00 days, respectively.
12	Q:	How did you calculate the service lag?
13	A:	The service lag was measured from the middle of the month for which service was billed
14		and was calculated as 365 days divided by 12 months divided by 2, or 15.21 days.
15	Q:	How did you calculate the billing lag?
16	A:	The billing lag was measured as the time delay between reading a meter and processing
17		a bill, which was calculated as 2 days since meters were read on day 1, the meter
18		readings uploaded into KCPL's Customer Information System on day 2 and bills mailed
19		on day 3.
20	Q:	How did you calculate the collection lag?
21	A:	Collection lag was calculated in two pieces relating to 1) receivables included in the
22		accounts receivable sale, and 2) receivables not included in the accounts receivable sale.
23		Accounts receivable sales pertain to various agreements KCPL has entered into which

1	result in the sale of up to \$100 million of eligible receivables to an affiliate of The Bank
2	of Tokyo-Mitsubishi UFJ, Ltd.

- 1) The amount of receivables expected to be sold throughout a normalized 12-month period was compared with total receivables for the period, excluding bulk power sales.

 Under the current Receivable Sale Agreement, KCPL may sell up to \$70 million of eligible receivables during the months of November through May and up to \$100 million during the months of June through October.
- Weighted and non-weighted percentage of receivables sold to total receivables were calculated for the twelve months ended November 2005. Under the current Agreement, KCPL expects to sell an average of 81.95% of its retail revenues. This percentage of revenues was given a 0 day collection lag.
- 3) A collection lag was also calculated for the 18.05% of revenues not included in the Receivable Sale Agreement. The collection lag for this group of revenues was based on a twelve-month average of Days Sales Outstanding, reflecting a 21.42 day lag.
- 4) The two collection lags were weighted based on the percentages noted above, resulting in an overall weighted collection lag of 3.86 days that was applied to total retail revenues.
- Q: What was the total resulting lag for retail revenues including service period, billing
 lag and collection lag?
- A: The total combined revenue lag, including service, billing and collection lags, was
 21 21.07 days.

- 1 Q: How were the results of your lead/lag study used?
- 2 A: Lags for both revenues and payments were posted to the summary Schedule CWC% 3 (defined above) included herein as Schedule CMD-1. On this summary schedule, the net 4 revenue/payment lag for each payment group was calculated and the result was divided 5 by 365 days to arrive at a net lead/lag factor. These factors were subsequently applied to 6 the applicable cost of service amounts on Schedule 16 of the revenue requirement model, 7 which is attached to the direct testimony of KCPL witness Don A. Frerking as Schedule 8 DAF-1 ("Schedule 16"), where individual components of cash working capital were 9 calculated. The total resulting cash working capital amount was then carried forward to 10 Schedule 15.
- 11 Q: Does that conclude your testimony?
- 12 A: Yes, it does.

BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

In the Matter of the Application of Kansas City Power & Light Company to Modify Its Tariff to Begin the Implementation of Its Regulatory Plan Case No. ER-2006)
AFFIDAVIT OF CHRISTINE M. DAVIDSON
STATE OF MISSOURI)) ss
COUNTY OF JACKSON)
Christine M. Davidson, being first duly sworn on her oath, states:
1. My name is Christine M. Davidson. I work in Kansas City, Missouri, and I am
employed by Kansas City Power & Light Company as a Senior Regulatory Analyst.
2. Attached hereto and made a part hereof for all purposes is my Direct Testimony
on behalf of Kansas City Power & Light Company consisting of eight (8) pages and Schedule
CMD-1, all of which having been prepared in written form for introduction into evidence in the
above-captioned docket.
3. I have knowledge of the matters set forth therein. I hereby swear and affirm that
my answers contained in the attached testimony to the questions therein propounded, including
any attachments thereto, are true and accurate to the best of my knowledge, information and
belief. Land M. Davidson Christine M. Davidson
Subscribed and sworn before me this 21° day of January 2006.
Micol A. Wen

Notary Public

My commission expires: Feb. 4, 2007

NICOLE A. WEHRY Notary Public - Notary Seal STATE OF MISSOURI Jackson County My Commission Expires: Feb. 4, 2007

1.8438% 1.8521% 1.5534% 1.8164% -88.7014% -49.1370% 1.8219% -12.9342% -7.2877% -53.1507% -0.0027% 9.0426% 0.5096% 2.0849% -0.6767% -0.8685% 4.9534% 1.9890% -2.0685% -1.3753% 4.3315% 0.1945% -6.7274% -17.9397% 5.7726% 3.4438% 7.61 (2.47) (3.17) (52.58) (24.56) (65.48) (194.00) (0.01) (7.55) 12.57 (5.02) 15.81 (179.35) 6.65 (47.21) (26.60) 33.01 21.07 PE PE PE 39.15 13.81 215.07 21.08 28.62 8.50 26.09 (36.88) 14.34 14.31 15.40 14.44 344.83 (11.94)45.63 86.55 20.36 200.42 14.42 68.28 13.46 23.54 24.24 73.65 47.67 19.21 % of Gross PR (B) EXPENSE LAG 7.8348% 18.3614% 47.9368% 21.7407% 21.07 21.07 21.07 21.07 21.07 21.07 21.07 21.07 35,428,157 32,764,100 11,807,315 27,671,470 72,242,886 21.07 21.07 21.07 21.07 21.07 21.07 21.07 21.07 21.07 21.07 21.07 21.07 21.07 21.07 21.07 186,132,468 (A) Revenue ALLOCATION ASSIGN BASIS 2005 TEST YEAR INCL KNOWN & MEASURABLE CHANGES TO 9-30-06 Federal, State & City Income Tax Withheld Other Post Employment Benefits (OPEB) MO Gross Receipts Taxes - Other Cities Cash Vouchers, excl itemizations below WCNOC Operations & Nucl fuel Wolf Creek Refueling Outage Accrual Unemployment Taxes - FUTA / SUTA Total Gross Payroll (12 MO ended 9-2005) Less: Gross Payroll paid by WCNOC Gross Payroll - Incurred internally Federal, State & City Income Tax Withheld Operations and Maintenance Expense FICA Taxes Withheld - Employee Payroll Withholdings - Incurred Internally Purchased Gas & Transportaion MO Gross Receipts Taxes - 6% Currently Payable Income taxes MO Gross Receipts Taxes - 4% Purchased Oil & Transportation Bulk Power Sales & Other Rev Other Employee Withholdings DESCRIPTION FICA Taxes Withheld - Employee Other Employee Withholdings Purchased Coal & Freight KS-City Franchise Taxes Pension Fund Payments FICA Taxes - Employers Ad Valorem / Property Purchased Power Accrued Vacation Interest Expense Sales Taxes-MO Sales Taxes-KS Payroll-Related O&M Total Withholdings Net Payroll Taxes CWC-011 CWC-012 CWC-013 CWC-014 CWC-016 CWC-016 CWC-017 CWC-018 CWC-018 CWC-022 CWC-023 CWC-024 CWC-026 CWC-026 CWC-028 CWC-028 CWC-031 CWC-031 CWC-033 CWC-036 CWC-037 CWC-038 CWC-040 CWC-041 CWC-042 CWC-044 CWC-044 CWC-046 CWC-046 CWC-034 CWC-035 CWC-048 CWC-049 CWC-009 CWC-010 CWC-020 CWC-021 ġ

KANSAS CITY POWER & LIGHT CO. MISSOURI REVENUE REQUIREMENT CASH WORKING CAPITAL PERCENTS