

KyPSC Case No. 2026-00144
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DATA REQUEST

WITNESS

TAB NO.

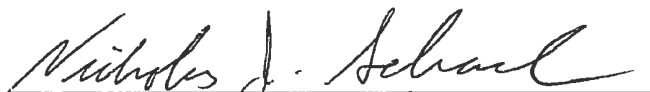
STAFF-DR-02-001

Nicholas J. Schack
Benjamin Tracy1

VERIFICATION

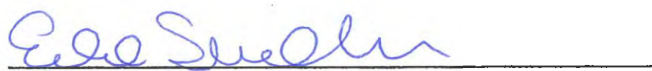
STATE OF OHIO)
) SS:
COUNTY OF HAMILTON)

The undersigned, Nicholas J. Schack, Manager, Gas Customer Field Operations, being duly sworn, deposes and says he has personal knowledge of the matters set forth in the foregoing data requests, and that the information contained therein is true and correct to the best of his knowledge, information, and belief.



Nicholas J. Schack, Affiant

Subscribed and sworn to before me by Nicholas J. Schack on this 25th day of August, 2026.



NOTARY PUBLIC

My Commission Expires: July 8, 2027



EMILIE SUNDERMAN
Notary Public
State of Ohio
My Comm. Expires
July 8, 2027

VERIFICATION

STATE OF OHIO

)

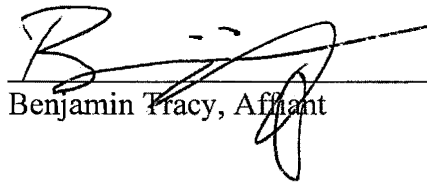
SS:

)

COUNTY OF HAMILTON

)

The undersigned, Benjamin Tracy, Engineer III, being duly sworn, deposes and says he has personal knowledge of the matters set forth in the foregoing data requests, and that the information contained therein is true and correct to the best of his knowledge, information, and belief.



Benjamin Tracy, Affiant

Subscribed and sworn to before me by Benjamin Tracy on this 25 day of August, 2026.



NOTARY PUBLIC

My Commission Expires:



ROCCO O. D'ASCENZO
ATTORNEY AT LAW
Notary Public, State of Ohio
My Commission Has No Expiration
Section 147.03 R.C.

Duke Energy Kentucky
Case No. 2026-00144
STAFF First Request for Information
Date Received: August 21, 2026

STAFF-DR-02-001

REQUEST:

Refer to Duke Kentucky's responses to Commission Staff's First Request for Information (Staff's First Request), Item 3, Attachment.

a. Provide a table showing the number of meters included in the "Ky Age Change Current Program projected meter change" for CAT I and CAT II, with the meter counts separated by model, consistent with the format of the sampling table as shown below.

CAT I							
Sequence	Sampling Year	400A	AC-250	AL-175	AL-425	MET250	Total
1	2027	19	359	4	63	565	1010
2	2028	85	273	0	42	840	1240
3	2029	7	314	2	45	960	1328
4	2030	57	418	0	77	1138	1690
5	2031	76	336	0	81	1738	2231
6	2032	52	368	0	62	1138	1620

CAT II							
Sequence	Sampling Year	1000A	AC 1000	AL-1000	AL-800	SL 1000	Total
1	2027	62	6	15	0	17	100
2	2028	45	4	24	1	13	87
3	2029	110	5	31	0	13	159
4	2030	71	3	35	0	7	116
5	2031	120	7	29	0	8	164
6	2032	90	5	29	0	6	130

b. Explain why the number of meters in CAT II in "Ky Age Change Current Program projected meter change" is 110 but the number of meters in "Ky Age Change Proposed Sample Program projected meter change" is 159, given the relatively small sample sizes for AL-800, AL-175, and AC-1000.

c. Explain how the sample size or percentage was determined for each year, including the statistical methodology, confidence level, margin of error, and meter selection process used to ensure that the sample is random and representative of the overall meter population.

d. Explain the statistical basis for concluding that the sample size is sufficient to reliably represent the overall meter population, particularly for meter models with a small number of sampled meters. Provide the supporting workpapers in Excel spreadsheet format, including all calculations, with all formulas, columns, and rows unprotected and fully accessible.

RESPONSE:

a. Please see the requested table attached in STAFF-DR-02-001(a) Attachment. In preparing this response, Duke Energy Kentucky identified an error in the 2029 projected CAT II count for the Current Program, previously provided in STAFF-DR-01-003 Attachment, Cell C5. The previously stated count of 110 was incorrect; the corrected 2029 CAT II current-program count is 485. See Cell C5 in STAFF-DR-02-001(a) Attachment.

b. The difference is due to the correction noted in Duke Energy Kentucky's response to subpart (a). The current-program projected CAT II count for 2029 is 485, not 110. The 159 CAT II meters in the proposed sample program represent the proposed 2029 sample quantity, not the total CAT II current-program population.

c. In the proposed SSMT Plan, sample size for each year is based off of the sizes of the control group sizes. Control groups vary in size and are determined based on meter model, manufacturer, and date of intest. Using Table 1 of the Application, Exhibit 2,

page 3, sample sizes are selected based on the corresponding control group size. As stated, STAFF-DR-01-010, Table 1 of the Application is an abstraction of Table I and Table II-A of ANSI Z1.4, on pages 10 and 11.

Duke Energy Kentucky did not calculate confidence level or margin of error, but instead accepts the methodology published in ANSI Z1.4, a nationally accepted quality standard for sampling programs, as a sufficient guidance document. ANSI Z1.4 describes a sampling program based on various AQLs, which are selected by the sampling program implementer. Duke Energy Kentucky has proposed using an AQL of 6.5, which aligns with the sampling programs used by Columbia Gas and Louisville Gas & Electric, as discussed in STAFF-DR-01-008. An AQL of 6.5 represents a maximum process average of 6.5% failure rate amongst the entire population of accepted control groups.

Individual meters within each control group will be selected for testing using a random number generator in excel to ensure randomness. A prototype of the SSMT sample randomizer spreadsheet has been attached as STAFF-DR-02-001(c) Attachment.

d. Duke Energy Kentucky considers the sample sizing methodology provided in Table I and Table II-A of ANSI Z1.4 to serve as the source for the SSMT Plan and did not calculate these values themselves.

PERSON RESPONSIBLE: Nicholas J. Schack – a., b.
Benjamin Tracy – c., d.

Ky Age Change Current Program projected meter change

	CAT I	CAT II	Total
2027	6274	293	6567
2028	6805	343	7148
2029	8591	485	9076
2030	15111	236	15347
2031	6070	293	6363
2032	7845	343	8188

	250	425	1000	Total Spend Current Program
\$ 763,008.00	\$ 99,221.00	\$ 414,888.00	\$ 1,277,117.00	
\$ 827,520.00	\$ 107,780.00	\$ 485,688.00	\$ 1,420,988.00	
\$ 1,044,736.00	\$ 135,993.00	\$ 686,760.00	\$ 1,867,489.00	
\$ 1,837,568.00	\$ 239,335.00	\$ 334,176.00	\$ 2,411,079.00	
\$ 738,176.00	\$ 96,051.00	\$ 414,888.00	\$ 1,249,115.00	
\$ 953,984.00	\$ 124,264.00	\$ 485,688.00	\$ 1,563,936.00	

250=\$128
425=\$317
1000=\$1416

Ky Age Change Purposed Sample Program projected meter change

	CAT I	CAT II	Total
2027	1010	100	1110
2028	1240	87	1327
2029	1328	159	1487
2030	1690	116	1806
2031	2231	164	2395
2032	1620	130	1750

Sequence	Sampling Year	400A	AC-250	AL-175	AL-425	MET250	Total
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2	2028	85	273	0	42	840	1240
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Sequence	Sampling Year	1000A	AC 1000	AL-1000	AL-800	SL 1000	Total
1	2027	62	6	15	0	17	100
2	2028	45	4	24	1	13	87
3	2029	110	5	31	0	13	159
4	2030	71	3	35	0	7	116
5	2031	120	7	29	0	8	164
6	2032	90	5	29	0	6	130

Total Savings per Year

2027	\$ 1,184,444.00
2028	\$ 1,299,796.00
2029	\$ 1,730,021.00
2030	\$ 2,240,531.00
2031	\$ 1,000,562.00
2032	\$ 1,398,198.00

CAT I

Sequence	Sampling Year	400A	AC-250	AL-175	AL-425	MET250	Total
1	2027	11	1390	9	231	4633	6274
2	2028	176	249	0	165	6215	6805
3	2029	228	973	1	201	7188	8591
4	2030	213	1423	0	542	12933	15111
5	2031	125	544	0	178	5223	6070
6	2032	248	1631	0	144	5822	7845

CAT II

Sequence	Sampling Year	1000A	AC 1000	AL-1000	AL-800	SL 1000	Total
1	2027	214	2	22	0	55	293
2	2028	304	1	9	5	24	343
3	2029	407	3	29	0	46	485
4	2030	198	4	15	0	19	236
5	2031	221	1	22	0	49	293
6	2032	299	5	19	0	20	343

250	425	Total CAT I
\$ 72,683.00	\$ 19,990.00	\$ 92,673.00
\$ 107,793.00	\$ 13,399.00	\$ 121,192.00
\$ 123,196.00	\$ 14,272.00	\$ 137,468.00
\$ 146,082.00	\$ 24,466.00	\$ 170,548.00
\$ 222,800.00	\$ 25,753.00	\$ 248,553.00
\$ 146,032.00	\$ 19,706.00	\$ 165,738.00

1000	Total Spend Per Year Sample Program
\$ 141,600.00	\$ 234,273.00
\$ 123,192.00	\$ 244,384.00
\$ 225,144.00	\$ 362,612.00
\$ 164,256.00	\$ 334,804.00
\$ 232,224.00	\$ 480,777.00
\$ 184,080.00	\$ 349,818.00

STAFF-DR-02-001(c) ATTACHMENT

UPLOADED ELECTRONICALLY ONLY

DUE TO SIZE