


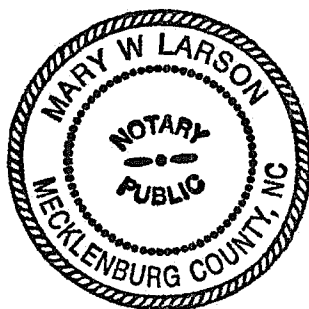
VERIFICATION

STATE OF NORTH CAROLINA)
) SS:
COUNTY OF MECKLENBURG)

The undersigned, Denise Lepisto, Manager of Accounting, being duly sworn, deposes and says that he has personal knowledge of the matters set forth in the foregoing data requests, and that the answers contained therein are true and correct to the best of her knowledge, information and belief.


Denise Lepisto Affiant

Subscribed and sworn to before me by Denise Lepisto on this 27th day of May,
2022.




NOTARY PUBLIC


My Commission Expires:

JULY 15, 2022

VERIFICATION


STATE OF)
) SS:
COUNTY OF)

The undersigned, Jeremy Gibson, Supervisor Joint Use, being duly sworn, deposes and says that he has personal knowledge of the matters set forth in the foregoing data requests, and that the answers contained therein are true and correct to the best of his knowledge, information and belief.



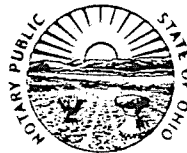
Jeremy Gibson Affiant

Subscribed and sworn to before me by Jeremy Gibson on this 1st day of June, 2022.



NOTARY PUBLIC

My Commission Expires: July 8, 2022

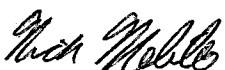


EMILIE SUNDERMAN
Notary Public
State of Ohio
My Comm. Expires
July 8, 2022

VERIFICATION

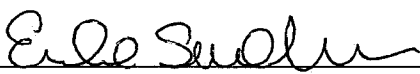
STATE OF OHIO)
)
COUNTY OF HAMILTON) SS:

The undersigned, Nick Melillo, Director Asset Management, being duly sworn, deposes and says that he has personal knowledge of the matters set forth in the foregoing data requests, and that the answers contained therein are true and correct to the best of his knowledge, information and belief.



Nick Melillo Affiant

Subscribed and sworn to before me by Nick Melillo on this 26th day of 2022,
2022.



NOTARY PUBLIC

My Commission Expires: July 8, 2022



EMILIE SUNDERMAN
Notary Public
State of Ohio
My Comm. Expires
July 8, 2022

KyPSC Case No. 2022-00105
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Duke Energy Kentucky
Case No. 2022-00105
STAFF Second Set Data Requests
Date Received: May 19, 2022

STAFF-DR-02-001

REQUEST:

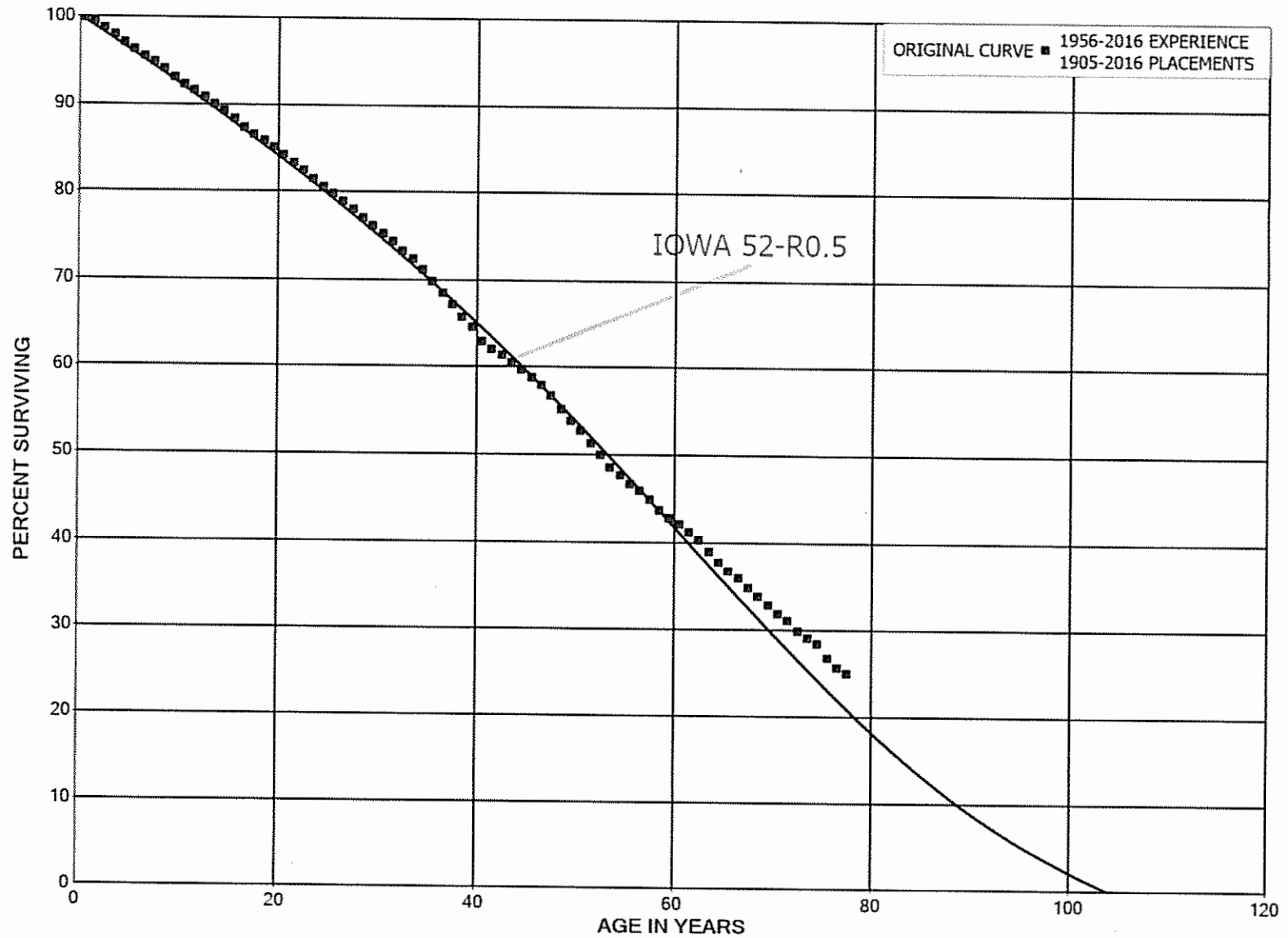
Refer to Duke Kentucky's response to Staff's First Request for Information, Item 6 and Item 7. Provide the service lives of distribution poles used to determine the average service life, by type and vintage, to the degree they are broken down.

RESPONSE:

The average service life of distribution poles is determined in a depreciation study. Each pole does not have a separate life. The average service life provided in Item 6 was from the last approved depreciation study for Duke Energy Kentucky. The calculation that determines the average service life is performed by Gannett Fleming, the consulting firm that performed the depreciation study. Please see STAFF-DR-02-001 Attachment which contains the exhibits from the most recent depreciation study, approved in Case No. 2017-321. The Original Life Statistics were used in the calculation of the 52 year average service life.

PERSON RESPONSIBLE: Denise Lepisto

DUKE ENERGY KENTUCKY
ACCOUNT 3640 POLES, TOWERS AND FIXTURES
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY KENTUCKY

ACCOUNT 3640 POLES, TOWERS AND FIXTURES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1905-2016

EXPERIENCE BAND 1956-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	81,654,470	107,104	0.0013	0.9987	100.00
0.5	79,196,996	374,598	0.0047	0.9953	99.87
1.5	72,207,655	505,244	0.0070	0.9930	99.40
2.5	64,533,286	506,229	0.0078	0.9922	98.70
3.5	56,383,958	525,417	0.0093	0.9907	97.93
4.5	50,786,030	377,959	0.0074	0.9926	97.01
5.5	49,784,851	401,428	0.0081	0.9919	96.29
6.5	48,277,332	354,083	0.0073	0.9927	95.52
7.5	46,375,276	392,197	0.0085	0.9915	94.82
8.5	46,074,634	487,486	0.0106	0.9894	94.01
9.5	44,397,354	356,714	0.0080	0.9920	93.02
10.5	42,438,288	282,967	0.0067	0.9933	92.27
11.5	40,931,448	386,881	0.0095	0.9905	91.66
12.5	39,814,609	313,723	0.0079	0.9921	90.79
13.5	38,698,855	338,166	0.0087	0.9913	90.07
14.5	38,299,579	387,900	0.0101	0.9899	89.29
15.5	37,261,409	398,615	0.0107	0.9893	88.38
16.5	35,873,006	318,503	0.0089	0.9911	87.44
17.5	34,249,325	291,696	0.0085	0.9915	86.66
18.5	32,481,728	299,037	0.0092	0.9908	85.92
19.5	30,986,575	318,046	0.0103	0.9897	85.13
20.5	29,283,277	288,892	0.0099	0.9901	84.26
21.5	27,324,927	297,632	0.0109	0.9891	83.43
22.5	25,182,834	317,894	0.0126	0.9874	82.52
23.5	23,099,944	246,959	0.0107	0.9893	81.48
24.5	21,220,773	215,024	0.0101	0.9899	80.61
25.5	19,651,625	200,146	0.0102	0.9898	79.79
26.5	18,466,542	221,087	0.0120	0.9880	78.98
27.5	16,544,269	199,094	0.0120	0.9880	78.03
28.5	15,637,811	176,727	0.0113	0.9887	77.09
29.5	14,364,530	168,568	0.0117	0.9883	76.22
30.5	13,417,961	175,255	0.0131	0.9869	75.33
31.5	12,517,174	179,716	0.0144	0.9856	74.34
32.5	11,703,613	140,166	0.0120	0.9880	73.27
33.5	10,860,873	185,615	0.0171	0.9829	72.40
34.5	9,989,362	183,581	0.0184	0.9816	71.16
35.5	9,037,489	180,082	0.0199	0.9801	69.85
36.5	7,949,050	149,628	0.0188	0.9812	68.46
37.5	7,194,385	155,868	0.0217	0.9783	67.17
38.5	6,578,961	106,613	0.0162	0.9838	65.72

**Duke Energy Kentucky
Case No. 2022-00105
STAFF Second Set Data Requests
Date Received: May 19, 2022**

STAFF-DR-02-002

REQUEST:

Other than identifying specific defective poles through inspections that require replacement, state whether Duke Kentucky has a policy or practice of replacing poles in a circuit on a periodic basis or as they reach the end of their useful lives and, if so, describe that policy or practice in detail, including how and when (e.g., how far in advance) such replacements are identified or included in Duke Kentucky's projected capital spending budget.

RESPONSE:

Duke Energy Kentucky does not have a policy or practice of replacing poles on a circuit on a periodic basis or when they reach the end of their asset accounting useful lives.

PERSON RESPONSIBLE: Nick Melillo

Duke Energy Kentucky
Case No. 2022-00105
STAFF Second Set Data Requests
Date Received: May 19, 2022

STAFF-DR-02-003

REQUEST:

Describe Duke Kentucky's recent efforts, if any, to reduce the number of above-ground transmission and distribution lines and identify the number of poles that have been eliminated in Duke Kentucky's system in each of the last ten years because the electric lines previously attached to those poles were placed underground.

RESPONSE:

Historically Duke Energy Kentucky has only replaced above-ground transmission and distribution lines with underground lines in isolated cases, either driven by a specific reliability issue, or a municipality's request to underground utilities for aesthetic purposes (typically in a business district, and reimbursable by the municipality). Duke Energy Kentucky does not track these projects separately, nor does Duke Energy Kentucky separately track the number of poles that have been eliminated in these cases.

Duke Energy Kentucky does have one project planned for 2022 on the Donaldson 44 circuit that will replace rear lot, heavily vegetated overhead lines with underground lines. This project will improve reliability in this area and will eliminate 21 difficult to access distribution poles.

PERSON RESPONSIBLE: Nick Melillo

Duke Energy Kentucky
Case No. 2022-00105
STAFF Second Set Data Requests
Date Received: May 19, 2022

STAFF-DR-02-004

REQUEST:

Provide an estimate of the average cost to perform a make-ready pole replacement, and explain each basis for your response.

RESPONSE:

An estimate of the average amount for make ready in Kentucky is \$8,301.90. This estimated average is based on work orders pulled from 2019-2021 that include pole change outs as a part of the make ready. The estimate however is not based solely on pole change outs as we do not track pole change out costs separately. The average amount provided includes other electric make ready work that does not specifically involve a pole being changed which could be for example, raising a street light, secondary, service, among other things. The work orders related to the pole change outs are also not limited to a “clean” pole in every scenario and do have factors that can cause the cost to increase significantly. These factors include, but are not limited to, poles that are in a rear lot situation behind a house or in an easement that is not easily accessible which would can require tree trimming, path clearing or additional equipment that is not used for a pole that is sitting roadside, poles that are required to be hand dug and hand set, poles where it is necessary to be set in the very same place as the existing pole which requires multiple crews to manage (replace in place), poles that are required to be brought up to code as a result of the work taking place. These examples are just some of the factors that could be present above and beyond the typical components that are a part of any normal “clean” pole replacement. Such typical

components include, but are not limited to, labor, materials, transferring of facilities, flagging, tree trimming, permits, and taxes. Because of the many factors involved, the costs of any single individual make ready may vary greatly from the average estimate amount given above.

PERSON RESPONSIBLE: Jeremy B. Gibson

**Duke Energy Kentucky
Case No. 2022-00105
STAFF Second Set Data Requests
Date Received: May 19, 2022**

**PUBLIC STAFF-DR-02-005
(As to Attachments only)**

REQUEST:

Provide any current joint use agreements.

RESPONSE:

CONFIDENTIAL PROPRIETARY TRADE SECRET (As to Attachments only)

Please see STAFF-DR-02-005 Confidential Attachments 1 through 8.

PERSON RESPONSIBLE: Jeremy B. Gibson

**CONFIDENTIAL PROPRIETARY TRADE
SECRET**

**STAFF-DR-02-005 CONFIDENTIAL
ATTACHMENT 1 - 8**

FILED UNDER SEAL