

**COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION**

In the Matter of:

ELECTRONIC JOINT APPLICATION OF)	
KENTUCKY UTILITIES COMPANY AND)	
LOUISVILLE GAS AND ELECTRIC COMPANY)	Case No. 2022-00402
FOR CERTIFICATES OF PUBLIC CONVENIENCE)	
AND NECESSITY AND SITE COMPATIBILITY)	
CERTIFICATES AND APPROVAL OF A DEMAND)	
SIDE MANAGEMENT PLAN)	

**SIERRA CLUB’S SECOND SUPPLEMENTAL REQUESTS FOR INFORMATION
TO KENTUCKY UTILITIES COMPANY AND LOUISVILLE GAS AND ELECTRIC
COMPANY**

Sierra Club submits these Second Supplemental Requests for Information (“RFI”) to Kentucky Utilities Company and Louisville Gas and Electric Company (“KU/LG&E” or the “Companies”) in the above-captioned proceeding pursuant to the Commission’s May 16, 2023 Order. Pursuant to that Order, the Companies shall respond to these requests for information no later than July 7, 2023. Please produce the requested information in electronic format whenever possible, and to the following recipients:

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DEFINITIONS

Unless otherwise specified in each individual interrogatory or request, “you,” “your,” the “Companies,” or “KU/LG&E,” refers to Kentucky Utilities Company, Louisville Gas and Electric Company, and their affiliates, directors, officers, employees, consultants, attorneys, and authorized agents.

“And” and “or” shall be construed either conjunctively or disjunctively as required by the context to bring within the scope of these interrogatories and requests for production of documents any information which might be deemed outside their scope by another construction.

“Any” means all, each and every example of the requested information.

“Communication” means any transmission or exchange of information between two or more persons, whether orally or in writing, and includes, without limitation, any conversation or discussion by means of letter, telephone, note, memorandum, telegraph, telex, telecopy, cable, email, or any other electronic or other medium.

“Control” means, without limitation, that a document is deemed to be in your control if you have the right to secure the document or a copy thereof from another person or public or private entity having actual possession thereof. If a document is responsive to a request, but is not in your possession or custody or subject to your control, identify the person with possession, custody, or control. If any document was in your possession or custody or subject to your control, and is no longer, state what disposition was made of it, by whom, the date on which such disposition was made, and why such disposition was made.

“Document” refers to written matter of any kind, regardless of its form, and to information recorded on any storage medium, whether in electrical, optical or electromagnetic form, and capable of reduction to writing by the use of computer hardware and software, and includes all copies, drafts, proofs, and originals either (1) in the possession, custody or control of the Companies regardless of where located, or (2) produced or generated by, known to or seen by the Companies, but now not in their possession, custody or control, regardless of where located or whether still in existence. Such “documents” shall include, but are not limited to, applications, permits, monitoring reports, computer printouts, contracts, leases, agreements, papers, photographs, tape recordings, transcripts, letters or other forms of correspondence, folders or similar containers, programs, telex, TWX and other teletype communications, memoranda, reports, studies, summaries, minutes, minute books, circulars, notes (whether typewritten, handwritten or otherwise), agendas, bulletins, notices, announcements, instructions, charts, tables, manuals, brochures, magazines, pamphlets, lists, logs, telegrams, drawings, sketches, plans, specifications, diagrams, drafts, books and records, formal records, notebooks, diaries, registers, analyses, projections, email correspondence or communications, and other data compilations from which information can be obtained (including matter used in data processing) or translated, and any other printed, written, recorded, stenographic, computer-generated,

computer-stored, or electronically stored matter, however and by whomever produced, prepared, reproduced, disseminated or made. For purposes of the production of “documents,” the term shall include copies of all documents being produced, to the extent the copies are not identical to the original, thus requiring the production of copies that contain any markings, additions or deletions that make them different in any way from the original.

“Identify” means:

- a. With respect to a person, to state the person’s name, address and business relationship (e.g., “employee”) vis-à-vis the Companies;
- b. With respect to a document, to state the nature of the document in sufficient detail for identification in a request for production, to state its date, to state its author, and to identify its custodian. If the information or document identified is recorded in electrical, optical, or electromagnetic form, identification includes a description of the computer hardware or software required to reduce it to readable form.

“Person” means, without limitation, every natural person, corporate entity, partnership, association (formal or otherwise), joint venture, unit operation, cooperative, municipality, commission, governmental body, or agency.

“Relating to” or “concerning” means and includes pertaining to, referring to, or having as a subject matter, directly or indirectly, expressly or implied, the subject matter of the specific request.

“Workpapers” are defined as original, electronic, machine-readable, unlocked, in native format, and with formulae and links intact.

INSTRUCTIONS

1. The Definitions, Instructions, and Claim of Privilege set out in this Request for Information apply to these questions.
2. In answering these questions, furnish all information that is available to you, including information in the possession of your agents, employees, and representatives, all others from whom you may freely obtain it, and your attorneys and their investigators.
3. Please answer each question based upon your knowledge, information, or belief, and any answer that is based upon information or belief should state that it is given on that basis.
4. If you have possession, custody, or control (within Ky. R. Civ. P. 34.01) of the originals of the documents requested, please produce the originals or a complete copy of the originals and all copies that are different in any way from the original, whether by interlineation, receipt stamp, or notation.
5. If you do not have possession, custody, or control of the originals of the documents requested, please produce copies of the documents, however made, in your possession, custody, or control. If any document requested is not in your possession or custody or subject to your control, please explain why not, and give the present location and custodian of any copy or summary of the document.
6. Please answer the questions and sub-questions in the order in which they are listed and in sufficient detail to provide a complete and accurate answer to the question.
7. If any question appears confusing, please request clarification from the undersigned counsel.
8. In providing your responses, please start each response on a separate page and type, at the top of the page, the question that is being answered.

9. As part of the response to each question, please state, at the bottom of the answer, the name and job position of each person who participated in any way, other than providing clerical assistance, in the preparation of the answer. If the question has sub-parts, please identify the person or persons by sub-part. Please also state the name of the witness in this docket who will sponsor the answer to the question and who can vouch for the truth of the answer. If the question has sub-parts, please identify the witness or witnesses by sub-part.

10. Rather than waiting to provide all of the responses at the same time, please provide individual responses as each becomes available.

11. Wherever the response to a request for information consists of a statement that the requested information is already available to Sierra Club, please provide a detailed citation to the document(s) and/or workpapers that contain the information. The citation shall include the title(s) of the document(s), relevant page number(s), and to the extent possible paragraph number(s) and/or chart(s)/table(s)/figure number(s).

12. In the event that any document referred to in response to any request for information has been destroyed, specify the date and the manner of such destruction, the reason for such destruction, the person authorizing the destruction and the custodian of the document at the time of its destruction.

13. These questions are continuing in nature. If there is a change in circumstances or facts or if you receive or generate additional information that changes your answer between the time of your original response and the time of the hearings, then you should submit, under oath, a supplemental response to your earlier answer.

14. If you consider any question to be unduly burdensome, or if the response would require the production of a voluminous amount of material, please call the undersigned counsel

as soon as possible in order to discuss the situation and to try to resolve the problem. Likewise, if you object to any of the questions on the grounds that the question seeks confidential information, or on any other grounds, please call the undersigned counsel as soon as possible.

15. If the response to any question is voluminous, please provide separately an index to the materials contained in the response.

16. If the information requested is included in previously furnished exhibits, workpapers, or responses to other discovery inquiries or otherwise, in hard copy or electronic format, please furnish specific references thereto, including Bates Stamp page citations and detailed cross-references.

17. Data should be provided in native electronic format including active EXCEL workbooks and all linked workbooks, with all formulas, cell references, links, etc., intact, functioning, and complete for all tables, figures, and attachments in the testimony.

18. To the extent that a question asks for the production of copyrighted material, it is sufficient to provide a listing of such material, indicating the title, publisher, author, edition, and page references relied on or otherwise relevant to the question.

19. Sierra Club reserves the right to serve supplemental, revised, or additional discovery requests as permitted in this proceeding.

PRIVILEGE

If you claim a privilege including, but not limited to, the attorney-client privilege or the work product doctrine, as grounds for not fully and completely responding to any request for information or request for production, describe the basis for your claim of privilege in sufficient detail so as to permit meaningful evaluation of the validity of the claim. With respect to documents for which a privilege is claimed, produce a “privilege log” that identifies the author,

recipient, date and subject matter of the documents or interrogatory answers for which you are asserting a claim of privilege and any other information pertinent to the claim that would likewise enable evaluation of the validity of such claims.

REQUESTS FOR INFORMATION

3.1 Please refer to the Companies' response to LFUCG/LJCM's initial request for information, number 15, which states: "The proposed retirement of Mill Creek Unit 1 is an example where significant new regulatory requirements (Effluent Limitation Guidelines) and extraordinary investment needs (cooling tower to meet 316b requirements) incur capital and operating costs that outweigh the costs incurred by transitioning to alternative energy supplies. Examples of regulatory requirement could be National Ambient Air Quality Standards, Cross State Air Pollution Rules, Effluent Guidelines, Regional Haze, Hazardous Air Pollution, or greenhouse gas standards of performance that are not achievable or the capital and operating costs of compliance technologies are higher than alternative generation sources." On May 11, 2023, the Environmental Protection Agency released its proposed rule, "New Source Performance Standards for Greenhouse Gas Emissions from New, Modified, and Reconstructed Fossil Fuel-Fired Electric Generating Units; Emission Guidelines for Greenhouse Gas Emissions From Existing Fossil Fuel-Fired Electric Generating Units; and Repeal of the Affordable Clean Energy Rule."¹

¹ 88 Fed. Reg. 33,240 (May 23, 2023), <https://www.govinfo.gov/content/pkg/FR-2023-05-23/pdf/2023-10141.pdf>; see also EPA, *Greenhouse Gas Standards and Guidelines for Fossil Fuel-Fired Power Plants*, <https://www.epa.gov/stationary-sources-air-pollution/greenhouse-gas-standards-and-guidelines-fossil-fuel-fired-power>.

- a. Please confirm that the Companies did not consider carbon dioxide limitations and guidelines either in seeking the Certificate of Public Convenience and Necessity (CPCN) or in seeking the retirements at issue in this litigation. If not confirmed, please explain how the Companies considered carbon dioxide limitations and guidelines in seeking the CPCN and/or retirements.
- b. Please provide any assessments or analyses of the impact of the proposed rule on Mill Creek Units 1 and 2, Ghent Unit 2, and/or Brown Unit 3, including on capital and operating costs.
- c. Please explain whether the proposed rule is anticipated to impact Mill Creek Units 1 and 2, Ghent Unit 2, and/or Brown Unit 3 and, if so, how it is anticipated to impact each affected unit.
- d. Please provide any assessments or analyses of the impact of the proposed rule on the two new NGCCs proposed in this CPCN proceeding, including on capital and operating costs.
- e. Please explain whether the proposed rule is anticipated to impact the two new NGCCs proposed in this proceeding and, if so, how it is anticipated to impact each affected unit.
- f. Please provide any assessments or analyses of the impact of the proposed rule on Haefling Units 1 and 2 and/or Paddy's Run Unit 12, including on capital and operating costs.
- g. Please explain whether the proposed rule is anticipated to impact Haefling Units 1 and 2 and/or Paddy's Run Unit 12 and, if so, how it is anticipated to impact each affected unit.

- 3.2 Please refer to the Companies' response to LFUCG/LJCM's initial request for information, number 15, which states: "The proposed retirement of Mill Creek Unit 1 is an example where significant new regulatory requirements (Effluent Limitation Guidelines) and extraordinary investment needs (cooling tower to meet 316b requirements) incur capital and operating costs that outweigh the costs incurred by transitioning to alternative energy supplies. Examples of regulatory requirement could be National Ambient Air Quality Standards, Cross State Air Pollution Rules, Effluent Guidelines, Regional Haze, Hazardous Air Pollution, or greenhouse gas standards of performance that are not achievable or the capital and operating costs of compliance technologies are higher than alternative generation sources." On January 27, 2023, EPA published its proposed rule, "Reconsideration of the National Ambient Air Quality Standards for Particulate Matter."²
- a. Please provide any assessments or analyses of the impact of the proposed rule on Mill Creek Units 1 and 2, Ghent Unit 2, and/or Brown Unit 3, including on capital and operating costs.
 - b. Please explain whether the proposed rule is anticipated to directly and/or indirectly impact Mill Creek Units 1 and 2, Ghent Unit 2, and/or Brown Unit 3 and, if so, how it is anticipated to impact each affected unit.
 - c. Please provide any assessments or analyses of the impact of the proposed rule on the two new NGCCs proposed in this CPCN proceeding, including on capital and operating costs.

² 88 Fed. Reg. 5,558.

- d. Please explain whether the proposed rule is anticipated to directly and/or indirectly impact the two new NGCCs proposed in this proceeding and, if so, how it is anticipated to impact each affected unit.
 - e. Please provide any assessments or analyses of the impact of the proposed rule on Haefling Units 1 and 2 and/or Paddy's Run Unit 12, including on capital and operating costs.
 - f. Please explain whether the proposed rule is anticipated to directly and/or indirectly impact Haefling Units 1 and 2 and/or Paddy's Run Unit 12 and, if so, how it is anticipated to impact each affected unit.
- 3.3 Please refer to the Companies' response to LFUCG/LJCM's initial request for information, number 15, which states in part: "Examples of regulatory requirement could be National Ambient Air Quality Standards, Cross State Air Pollution Rules, Effluent Guidelines, Regional Haze, Hazardous Air Pollution, or greenhouse gas standards of performance that are not achievable or the capital and operating costs of compliance technologies are higher than alternative generation sources."
- a. Please provide any assessments or analyses of the impact of the following federal regulatory schemes on Haefling Units 1 and 2, and/or Paddy's Run Unit 12:
 - i. National Ambient Air Quality Standards
 - ii. Good Neighbor Rule
 - iii. Effluent Limitations Guidelines
 - iv. Regional Haze
 - v. Mercury and Air Toxics Standards

- b. Please explain whether the Good Neighbor Rule is anticipated to impact Haefling Units 1 and 2 and/or Paddy's Run Unit 12 and, if so, how the regulation is anticipated to impact each affected unit.
- 3.4 Please refer to the Companies' response to Sierra Club's supplemental request for information, number 15(d), which states: "As detailed in the RC agreement, '[T]he Reliability Coordinator is authorized to, and shall, direct and coordinate timely and appropriate actions by LG&E/KU, including curtailing transmission service or energy schedules, redispatching generation, and shedding load, in each case, in order to avoid adverse effects on interregional bulk power reliability.'"
 - a. Please provide a copy of "the RC agreement."
 - b. In Sierra Club's supplemental request for information, number 15(d), Sierra Club requested that LG&E/KU "describe what, if any, role LG&E/KU's reliability coordinator played in LG&E/KU's response to Winter Storm Elliott." Did the reliability coordinator direct and coordinate specific actions by LG&E/KU during Winter Storm Elliott, including curtailing transmission service or energy schedules, redispatching generation, and shedding load to avoid adverse effects on interregional bulk power reliability? If so, please describe the actions directed and coordinated by the reliability coordinator during Winter Storm Elliott.
- 3.5 Please provide all current Title V permits for Haefling Units 1 and 2 and Paddy's Run Unit 12.
- 3.6 Please refer to the statement in the Companies' response to Sierra Club Question 2-1.c, "Winter Trimble County agreements allow the operation of six CTs at maximum load for 16 hours and minimum load for eight hours." Please confirm that statement is correct, and that the hour durations are not reversed for maximum and minimum load.

- 3.7 Please refer to the Companies' response to Sierra Club Question 2-1.e. Please provide the duration of the longest-duration gas supply contract the Companies currently have in place for their generators.
- 3.8 Please refer to the Companies' response to Sierra Club Question 2-25.c, stating, "In the standalone cases, imports were limited to 300 MW."
- a. Beyond the information provided in the Companies' response to Sierra Club Question 2-25.b, please explain the justification for the 300 MW cap on imports.
 - b. Was the 300 MW cap on imports assumed to apply during peak demand hours?
- 3.9 Please refer to the Companies' response to Sierra Club Question 2-35.a, attachment 2, labeled "Seasonal Contribution." Please document the source of the hourly renewable output profiles provided in tab "comb_syspeak_hours," including any assumptions that were used to produce the profiles.

Dated: May 31, 2023

Of counsel (not licensed in Kentucky)

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Respectfully submitted,

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CERTIFICATE OF SERVICE

This is to certify that the foregoing document is being electronically transmitted to the Commission on May 31, 2023, and there are currently no parties that the Commission has excused from participation by electronic means in this proceeding.

/s/ Joe F. Childers
JOE F. CHILDERS