

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

In the Matter of:

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ELECTRONIC APPLICATION OF EAST)	
KENTUCKY POWER COOPERATIVE, INC.)	Case No. 2024-00310
FOR 1) A CERTIFICATE OF PUBLIC)	
CONVENIENCE AND NECESSITY TO)	
CONSTRUCT A NEW GENERATION)	
RESOURCE; 2) A SITE COMPATIBILITY)	
CERTIFICATE; AND 3) OTHER GENERAL)	
RELIEF)	

**SIERRA CLUB’S SECOND REQUESTS FOR INFORMATION TO EAST KENTUCKY
POWER COOPERATIVE, INC.**

Sierra Club hereby submits this Second Set of Data Requests to East Kentucky Power Cooperative (“EKPC” or the “Cooperative”). Please provide responses to these data requests below to the undersigned counsel.

GENERAL INSTRUCTIONS

1) **Definitions:** For the purposes of these data requests, the following definitions shall apply:

- a) The term “EKPC” means and includes East Kentucky Power Cooperative and any and all affiliates and/or subsidiaries, successors, predecessors, agents, consultants, and witnesses in this proceeding, and any and all of their affiliates, subsidiaries, or predecessors.
- b) The term “Cooperative” means and includes East Kentucky Power Cooperative and any and all affiliates and/or subsidiaries, successors, predecessors, agents, consultants, and witnesses in this proceeding, and any and all of their affiliates, subsidiaries, or predecessors.
- c) “Document” means all written, recorded or graphic matters, however produced or reproduced, pertaining in any manner to the subject of this proceeding, whether or not now in existence, without limiting the generality of the foregoing, all originals, copies and drafts of all writings, correspondence, telegrams, notes or sound recordings of any type of personal or telephone communication, or of

meetings or conferences, minutes of directors or committee meetings, memoranda, inter-office communications, studies, analyses, reports, results of investigations, reviews, contracts, agreements, working papers, statistical records, ledgers, books of account, vouchers, bank checks, x-ray prints, photographs, films, videotapes, invoices, receipts, computer printouts or other products of computers, computer files, stenographer's notebooks, desk calendars, appointment books, diaries, or other papers or objects similar to any of the foregoing, however denominated. If a document has been prepared in several copies, or additional copies have been made, and the copies are not identical (or which, by reasons of subsequent modification of a copy by the addition of notations, or other modifications, are no longer identical) each non-identical copy is a separate "document."

- d) "And" or "or" shall be construed conjunctively or disjunctively as necessary to make the requests inclusive rather than exclusive.
- e) The term "you" and "your" refer to "EKPC."
- f) The term "person" means any natural person, corporation, corporate division, partnership, limited liability company, other unincorporated association, trust, government agency, or entity.
- g) The term "regarding" means consisting of, containing, mentioning, suggesting, reflecting, concerning, regarding, summarizing, analyzing, discussing, involving, dealing with, emanating from, directed at, pertaining to in any way, or in any way logically or factually connected or associated with the matter discussed.
- h) The singular as used herein shall include the plural and the masculine gender shall include the feminine and the neuter.
- i) "Identify" or "identifying" or "identification" when used in reference to a person that is a natural person means to state: the full name of the person and any names under which he conducts business; the current employer of the person, the person's job title and classification, the present or last known work address of the person; and, the present or last known telephone number of the person.
- j) "Identify" or "identifying" or "identification" when used in reference to a person other than a natural person means to state: the full name of the person and any names under which it conducts business; the present or last known address of the person; and, the present or last known telephone number of the person.
- k) "Identify" or "identifying" or "identification" when used in reference to a document means to provide with respect to each document requested to be identified by these discovery requests a description of the document that is sufficient for purposes of a request to produce or a subpoena duces tecum, including the following:
 - (a) the type of document (e.g., letter, memorandum, etc.);

- (b) the date of the document;
 - (c) the title or label of the document;
 - (d) the Bates stamp number or other identifier used to number the document for use in litigation;
 - (e) the identity of the originator;
 - (f) the identity of each person to whom it was sent;
 - (g) the identity of each person to whom a copy or copies were sent;
 - (h) a summary of the contents of the document;
 - (i) the name and last known address of each person who presently has possession, custody or control of the document; and,
 - (j) if any such document was, but is no longer, in your possession, custody or control or is no longer in existence, state whether it: (1) is missing or lost; (2) has been destroyed; or (3) has been transferred voluntarily or involuntarily, and if so, state the circumstances surrounding the authorization for each such disposition and the date of such disposition.
- l) “Identify” or “identifying” or “identification” when used in reference to communications means to state the date of the communication, whether the communication was written or oral, the identity of all parties and witnesses to the communication, the substance of what was said and/or transpired and, if written, identify the document(s) containing or referring to the communication.
 - m) “Current” when used in reference to time means in the present time of this data request.
 - n) “Member-Owner Cooperative” means a distribution cooperative that is a member of EKPC that distributes electricity to retail customers
 - o) “Customer” means a person who buys retail electricity on a regular and ongoing basis from a Member-Owner Cooperative.
 - p) “Workpapers” are defined as original, electronic, machine-readable, unlocked, Excel format (where possible) with formulas in-tact.

OTHER INSTRUCTIONS

- a) Responses are to be provided in electronic format (e.g., text documents should be in the original word processor file format or PDF, data files should be in Excel).

- b) If you contend that any response to any data request may be withheld under the attorney-client privilege, the attorney work product doctrine or any other privilege or basis, please state the following with respect to each such response in order to explain the basis for the claim of privilege and to permit adjudication of the propriety of that claim:
- 1) The privilege asserted and its basis;
 - 2) The nature of the information withheld; and,
 - 3) The subject matter of the document, except to the extent that you claim it is privileged.
- c) For any document or set of documents EKPC objects to providing to Sierra Club on the grounds it is burdensome or voluminous, please identify the specific document (see instruction (k) above).
- d) These data requests are to be answered with reference to all information in your possession, custody or control or reasonably available to you. These data requests are intended to include requests for information, which is physically within your possession, custody or control as well as in the possession, custody or control of your agents, attorneys, or other third parties from which such documents may be obtained.
- e) If any data request cannot be responded to or answered in full, answer to the extent possible and specify the reasons for your inability to answer fully.
- f) These data requests are continuing in nature and require supplemental responses should information unknown to you at the time you serve your responses to these data requests subsequently become known.
- g) For each response, identify all persons (see instruction (j)) that were involved in the preparation of the answers to the interrogatories below and/or are responsible for compiling and providing the information contained in each answer.
- h) Identify which witness(es) at the hearing is competent to adopt and/or discuss the response.
- i) Please produce the requested documents in electronic format to the following individuals:

Kristin Henry
kristin.henry@sierraclub.org

Nathaniel Shoaff
nathaniel.shoaff@sierraclub.org

Joaquin Garcia
joaquin.garcia@sierraclub.org

- j) Wherever the response to an interrogatory or request consists of a statement that the requested information is already available to the Sierra Club, provide a detailed citation to the document that contains the information. This citation shall include the title of the document, relevant page number(s), and to the extent possible paragraph number(s) and/or chart/table/figure number(s).
- k) 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.
- l) Sierra Club reserves the right to serve supplemental, revised, or additional discovery requests as permitted in this proceeding.

DATA REQUESTS

- 2-1. Please describe EKPC's load interconnection queue process and answer the following:
- a. What criteria or requirements, if any, do potential large load customers have to meet for entry to EKPC's load interconnection queue?
 - b. What data sharing requirements does EKPC have in place for large load customers to describe their operational characteristics, both in terms of steady-state and dynamic performance?
 - c. What transmission studies does EKPC conduct of a potential, new large load customer?
 - d. What is the transmission study process for large load customers? Is a serial or cluster study approach used? What specific studies (powerflow, contingency analysis, transient stability, EMT, etc.) are conducted for large loads? What size thresholds or other criteria, if any, are used to differentiate the types of studies performed?
 - e. What information is required/requested to develop a load model representation in powerflow, positive sequence dynamics, and EMT? Does EKPC require the large load customer to provide a dynamic model? Does EKPC require the provision of any information that would help inform the creation of a dynamic load model? If so, do all potential, new large load customers provide this data?
 - f. If EKPC does not receive dynamic load data from a potential, new large load customer, what assumptions with respect to the load of the potential customer does EKPC make when conducting EMT and/or transient stability studies?
 - g. What requirements, if any, does EKPC impose on the length of time in which a customer can remain in its load interconnection queue?
 - h. Provide a copy of any contracts that govern the recovery of transmission study costs from potential large load customers.

- i. What types of power flow cases and scenarios does EKPC run when assessing the impacts of new large load customers?
 - j. How are new large load customers grouped, if at all, for purposes of transmission planning studies?
 - k. What information serves as the basis for the commitment and dispatch represented in EKPC's transmission modeling?
 - l. What assumption does EKPC make with respect to imports/exports of energy to or from its transmission system for purposes of power flow simulations as part of its large load interconnection planning process?
 - m. Does EKPC have any restrictions or requirements in place regarding fast ramping of large load customers such as AI data center loads that could impact bulk power system conditions?
 - n. Does EKPC have a documented criterion for assessing what is considered acceptable versus unacceptable performance of the bulk power system when studying the reliability impacts of large load interconnection requests? If so, please provide those criteria.
 - o. What is the process and criteria for incorporating large load interconnection requests into load forecasts used for integrated planning, resource planning, transmission planning, etc.?
- 2-2. Please refer to Purvis Testimony at 7.
- a. Please provide all analysis and support for the statement that "EKPC would need a fast start dispatchable energy resource to keep the grid reliable and in-service."
 - b. Is this statement mainly intended to refer to the role Cooper Station plays in maintaining stability in the immediate vicinity of the proposed Liberty RICE facility (see Mosier at 5) or does EKPC have a "need" for keeping its entire system's "grid reliable and in-service"?
 - c. Please explain why EKPC's participation in the PJM market does not provide it with the opportunity to keep its grid reliable and in-service.
- 2-3. Please refer to the Application at page 3, referencing the Commission's expectation that EKPC "should have generation capacity to serve its native load."
- a. Please explain whether EKPC believes that, absent such direction from the Commission, it could provide the overall system grid reliability (maintaining service of load) at a lower cost by relying in part on the PJM market rather than on the Liberty RICE facility.
 - b. Please provide all analysis and support for EKPC's response to part (a).
- 2-4. Please see Direct Testimony of Don Mosier at 6.
- a. Please provide all analysis and support for the statement that "there will be a significant need for fast start peaking resources to replace rapidly declining solar generating capability during evening peak needs."
 - b. Please define "evening peak."

- c. Please explain why EKPC's participation in the PJM market does not provide it with the opportunity to meet the need for power during "evening peak" periods.
- 2-5. Please refer to Direct Testimony of Craig Johnson at 9.
- a. Please confirm that Mr. Johnson is stating that the RICE engines are justified, in part, because they will meet a resource need "expected in the future PJM footprint." If not confirmed, please explain the statement.
 - b. Please confirm that PJM will dispatch the RICE units. (Tucker at 26) If not confirmed, please explain.
 - c. Please confirm that, absent any local reliability requirements, the most economical units in the PJM system will be dispatched to serve PJM load. In other words, the RICE units will not be dispatched to serve EKPC load specifically. If not confirmed, please explain.
 - d. Please provide EKPC's understanding of the "deployment of renewable energy expected in the future PJM footprint" and explain why EKPC needs to respond to the entire PJM footprint. In your response, please address EKPC's position that, "The Commission has often expressed an expectation that every electric utility in Kentucky should have generation capacity to serve its native load." (Application at 3)
 - e. Is EKPC intending the RICE engines to serve its native load or to respond to the entire PJM footprint?
- 2-6. Please refer to Direct Testimony of Julia J. Tucker at page 21.
- a. Please provide the heat rates for RICE units and "Traditional CTs" as referenced in the testimony that support the statements made by Witness Tucker.
- 2-7. Please refer to Direct Testimony of Julia J. Tucker at page 23.
- a. Please explain what is meant by a "run time of over 6,000 hours." Is this the equivalent of a 68% capacity factor?
 - b. At what capacity factor does EKPC expect to operate the proposed Liberty RICE facility?
 - c. Please identify any other RICE facilities that are currently operating in North America that operate at a capacity factor that is similar to that forecast by EKPC for the proposed Liberty RICE facility.

Dated: December 2, 2024

Respectfully submitted,

/s/ Joe F. Childers
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CERTIFICATE OF SERVICE

This is to certify that the foregoing copy of Sierra Club’s Second Set of Data Requests to East Kentucky Power Cooperative in this action is being electronically transmitted to the Commission on December 2, 2024, and that 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