

STATE OF NEW JERSEY
BOARD OF PUBLIC UTILITIES

IN THE MATTER OF THE PETITION OF
PUBLIC SERVICE ELECTRIC AND GAS
COMPANY FOR A DETERMINATION
PURSUANT TO THE PROVISIONS
OF N.J.S.A. 40:550-19
(SUSQUEHANNA –ROSELAND
TRANSMISSION LINE)

BPU Docket No. EMO9010035

**STOP THE LINES
FIRST REQUEST FOR THE
PRODUCTION OF DOCUMENTS AND
INTERROGATORIES RE: TESTIMONY
OF WILLIAM H. BAILEY**

Stop the Lines hereby makes the following Interrogatories and Requests for the Production of Documents of William H. Bailey, witness for Public Service Electric and Gas Company, pursuant to N.J.A.C. § 1:10-1 et seq.

INSTRUCTIONS

Stop the Lines requests that answers to these Interrogatories and Requests for Production of Documents be provided to Carol A. Overland and David Slaperud, Stop the Lines, at the address below. Stop the Lines requests that responses also be provided electronically to overland@legalectric.org and info@stopthelines.com.

For each response, identify the party answering and the Interrogatory to which it is responsive.

When the following terms or names are used, the undersigned intends the meanings hereinafter described to be associated with such terms and names.

These Interrogatories and Request for Production of Documents are ongoing. If your answers should change, or if new information becomes available, please update these responses as soon as possible

DEFINITIONS

Stop the Lines adopts the following Definitions for the purposes of this Discovery:

1. The singular includes the plural and the plural includes the singular where appropriate to the sense of the Demand for Production.
2. "Identify" or "identity" when used in reference to:
 - A. an individual, shall mean to state his full name, present or last known residential address, and present or last known employment position or business affiliation, indicating name of company, job title, employment address, and telephone numbers;
 - B. a firm, partnership, corporation, proprietorship, association or other organization or entity shall mean to state its full name, present or last known address and telephone number (designating which, the legal form of such entity or organization, and the identity of its chief executive officer);
 - C. a "document" shall mean to state, if applicable, the date of the document, the name of the person who prepared the document, the name of the recipient of the document, and the subject matter of the document. A copy of the document may be provided, in lieu of an answer, to that portion of the Interrogatory that it answers, where labeled as to which Interrogatory it is responsive.
 - D. meetings and events, list all identifying features, including date, place and participants.
 - E. other information, means provide the information requested.
3. "Date" shall mean the exact date, month and year, if ascertainable, or if not, the best available approximation including relationship to other events.
4. "BPU" means the New Jersey Board of Public Utilities and its employees and Commissioners, and also includes the Division of the Ratepayer Advocate and its employees.
5. "Concerning" and "addressing" mean relating to, referring to, describing, evidencing or constituting.
6. "Applicants" means the PSE&G, a New Jersey public utility, and also includes where necessary PJM as witness for PSE&G, and PPL as Pennsylvania applicant, and all principals, partners, members, representatives, employees, agents, contractors, officers, directors, affiliates and related companies.
7. "Document" means writings, drawings, graphs, charts, photographs, phono-records, and other data compilations from which information can be obtained and translated, if

necessary, through electronic devices into reasonably usable form, and other tangible things within the scope of the discovery rules.

INTERROGATORIES

1. Regarding King's Direct Testimony, p. 9, l. 3-17, in your expert opinion: Is a level of 23-32 mG safe? Is a level of 29-57mG safe? Is a level of 12-20 safe: Is a level of 7 mG safe? Is a level of 38-42 mG safe? Is a level of 19-21 mG safe?
2. Direct, p. 4, l. 5-7, what is EMF-RAPID recommendation regarding precautionary principle?
3. Direct, p. 4, l. 5-7, at what mG level does EMF-RAPID recommend exercising precaution?
4. Direct, p. 6, states your testimony states that "the fields produced by transmission lines oscillate at a frequency of 60 Hertz and are classified in the extremely low frequency (ELF) range..." Did you do any testing, modeling or analysis of EMF above 60-hertz, particularly those harmonics above 1,000 hertz?
5. Direct, p. 6, regarding 60-hertz EMF and ELF, in your career, what testing have you completed regarding EMF levels of high harmonics?
6. Direct, p. 6, regarding the levels of 60-hertz EMF, in your career, what education have you completed regarding EMF levels of high harmonics?
7. Direct, p. 6, regarding "the levels of 60-hertz EMF" in your career, what research have you completed regarding EMF levels of high harmonics?
8. Direct, p. 7, l. 7-8, are you testifying that a level up to 57 mG (line 8) is safe?
9. Direct, p. 7, l. 7-8, are you testifying that a level up to 21 mG (line 10) is safe?
10. Direct, p. 7, l. 1-18, did you analyze maximum levels of EMF and the impact of those levels? If so, results?
11. Direct, p. 8, l. 8-14, what is range of research on impact of electric fields and pacemakers?
12. Direct, p. 8, l. 8-14, have pacemaker manufacturer made any recommendations regarding pacemakers and proximity to transmission lines?
13. Direct, p. 8-9, you mention two studies with recommendations regarding mG levels. Are you familiar with studies recommending precautions at lower levels? Provide citations.

14. Direct, p. 10, l. 15 et seq, were the links between tobacco use and cancer, and asbestos and cancer demonstrated by epidemiological studies?
15. Direct, p. 11-12, regarding your discussion of epidemiologic studies v. causal link experimentation studies, would you agree that establishing a causal link is necessary in a personal injury context?
16. Direct, p. 11-12, regarding your discussion of epidemiologic studies v. causal link experimentation studies, would you agree that establishing a causal link is not necessary to establish a need for precaution?
17. Direct, p. 11-12, regarding your discussion of epidemiologic studies v. causal link experimentation studies, would you agree that establishing a causal link is not necessary to establish in an administrative transmission line proceeding?
18. Direct, p. 14-15, again you point out ELF studies. What studies have been published addressing high frequency harmonics of EMF?
19. Direct, p. 14-15, have you reviewed the work of Dr. Magda Havas?
20. Direct, p. 14-15, have you reviewed the work of Dr. Martin Graham?
21. Direct, p. 14-15, have you reviewed the work of Dr. Martin Blank?
22. Direct, p. 14-15, have you reviewed the work of Dr. Art Hughes?
23. Direct, p. 16, l. 1-19, what precautionary measures are warranted?
24. Direct, p. 16, l. 10-19, would you agree that the weak association has a strong confidence level (95% or greater)?
25. Direct, p. 16, l. 3-4, would you agree that exposure to EMF and exposure to gasoline engine exhaust are, as rated by the IARC, similarly possibly carcinogenic?
26. Direct, p. 14-22, would you agree that an epidemiological study is different from the type of study necessary to establish a causal link?
27. Direct, p. 18, l. 3-4, what study is referred to regarding the association of EMF and childhood leukemia.
28. Direct, p. 19, l. 3-13, are you familiar with any studies of exposure of pigs to EMF? Provide citations.
29. Direct, p. 21, l. 13-18, do the precautions cited regarding PSE&G produce a lower EMF level than not building this project?

30. Direct, p. 21, l. 21 - p. 22, l. 6, what would the impact on the electric industry be if the causal link were established between EMF and human disease such as cancer, ALS, etc.
31. Direct, p. 22, l. 8-18, does the scientific research show that electric and magnetic fields are safe?
32. Direct, p.22, is it your testimony that the project, as proposed by PSE&G, is safe?

REQUESTS FOR THE PRODUCTION OF DOCUMENTS


1. Provide copies of the numerous EMF EPRI handbooks and course materials you have authored and coauthored.
2. Provide copies of all EPRI studies regarding EMF over the last 15 years.
3. Provide any and all studies regarding 60 hertz high harmonics and EMF.
4. Provide any and all comments of PSE&G on this rulemaking or other process establishing this electric field requirement.
5. Direct, p. 8-9, provide copies of all studies with recommendations of precaution regarding any level of EMF.
6. Direct, p. 8-9, provide copies of all studies with findings of an association, weak or strong, with human health or disease regarding any level of EMF.
7. Provide any and all EMF studies authored or coauthored by Dr. Magda Havas.
8. Provide any and all EMF studies authored or coauthored by Dr. Martin Graham.
9. Provide any and all EMF studies authored or coauthored by Dr, Martin Blank.
10. Provide any and all EMF studies authored or coauthored by Dr. Art Hughes.
11. Provide copies of any and all studies showing an association between average exposure to greater than 3-4 mG and childhood leukemia.
12. Provide copies of any and all studies of exposure of pigs to EMF.

These Interrogatories and Request for Production of Documents are ongoing. If your answers should change, or if new information becomes available, please update these responses as soon as possible.

Dated: May 14, 2009



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