

UNITED STATES OF AMERICA

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USNRC

NUCLEAR REGULATORY COMMISSION 82 OCT -4 10:55

Before the Atomic Safety and Licensing Board

In the Matter of)

CLEVELAND ELECTRIC ILLUMINATING)
COMPANY, et al.)

Docket Nos. 50-440
50-441
(OL)

(Perry Nuclear Power Plant,)
Units 1 and 2))

SUNFLOWER ALLIANCE et al. THIRD SET OF INTERROGATORIES
(WITH REQUESTS FOR PRODUCTION OF DOCUMENTS) TO APPLICANTS

These interrogatories (Third Set) are filed by Sunflower Alliance, Inc. et al., pursuant to the previous orders of the Atomic Safety and Licensing Board and pursuant to 10 CFR 2.740 b. These interrogatories are directed to each utility making up the Applicants and pertain to Issue #3 in this proceeding.

It is required that each interrogatory be answered separately and fully in writing under oath or affirmation, within 14 days of service. These interrogatories shall be continuing in nature and the answers must be immediately supplemented or amended, as appropriate, should the applicants, or anyone of them, offer any new or differing information responsive to the interrogatories.

For purposes of these interrogatories the term "documents" means all records of every type in the possession, control, or custody of the applicants or any one of them, or of the Applicants' attorneys, including, but not limited to, memoranda, correspondence, reports, surveys, tabulations, charts, books, pamphlets, photographs, maps, bulletins, minutes, notes, speeches, articles, transcripts, voice recordings, and all other writings, recordings, or video tapes of any kind. "Documents" shall also mean copies of documents even though the originals thereof are not in the possession, custody, or control of the Applicants.

For purposes of these interrogatories, a document shall be deemed to be within the "control" of the Applicants or Applicants' attorneys if they have ownership, possession, or custody of the document or copy thereof, or have the right to secure the document or copy thereof from any person or public or private entity having physical possession thereof.

When identification of a document is requested, briefly describe the document, i.e., letter, memorandum, book, pamphlet, etc., and state the following information as applicable to the particular

document: name, title, author, number, date of publication and publisher, addresses, date written or approved, and the name and address of the person(s) having possession of the document.

Statement of Purpose: The following interrogatories deal with Issue #3 which has been admitted into this proceeding. The purpose of the interrogatories is to discover information which will show that Applicants have an inadequate QA program that has caused or is causing unsafe construction at the Perry plant.

1. Provide a list of all contractors and subcontractors engaged by Applicants to perform any activities pertaining to the construction of the Perry Nuclear Power Plant, Units 1 and 2. ("Activities" includes QA documentation and audit work as well as physical construction.) Include contractors and subcontractors which were previously engaged by Applicants, as well as those presently so. For each contractor or subcontractor listed, briefly describe the area and type of work they are responsible for, give the date on which they became involved with the Perry project, and if their contract has been terminated, give the date of termination and indicate why.
2. Produce a list of all trade unions whose members are involved with the Perry project, and for each union listed, give the number and address of the local most directly involved.
3. Provide a list of all persons who have been or are presently employed at the Perry site; for each person listed, give the name of the company employing the person, date on which the person began work at the Perry site, date such employment terminated, name of the union to which the person

- belongs, and current or last known address of the person.
4. For any of the persons listed in response to Interrogatory 3, above, who is or was an inspector, indicate this, and list what areas of the plant the inspector was responsible for.
 5. Who is responsible for training workers (laborers, craftsmen, inspectors, etc.) at the plant, CEI, Kaiser, the individual contractor/subcontractor, or the unions? What assurance is there that workers are properly trained and qualified before they are permitted to do work? List all recognized industrial standards (e.g., ANSI) for the training of workers which are applicable to PNPP and indicate how they are being met.
 6. Discuss in detail the specific functions and involvement of Kaiser Engineering at Perry. Discuss how Kaiser's involvement has changed since the inception of construction.
 7. Explain how Chapter 17 of the PSAR relates to the Perry "Corporate Nuclear Quality Assurance Program Manual"; do revisions of the QA manual also result in revisions of the PSAR? List all amendments (and date of same) to Chapter 17 of the PSAR.
 8. Produce all Quarterly Performance Analysis Reports (refer to CNQAP Project Administration 0204) from the inception of construction to the present.
 9. Have there been any instances of harassment or intimidation of inspectors at PNPP? If so, list every such incident and provide all details.

10. List every act of vandalism directed at the PNPP structure or components thereof, giving the date, extent, and location of each incident, and explain how the vandalism was discovered.
11. Produce all documents pertaining to the firing of a quality control electrical inspector for alleged falsified credentials (see PNO-III-82-33).
12. Produce any statements or agreements which Applicants or their contractors/subcontractors may require workers to sign/^{or otherwise affirm} which prohibit employees from talking to (or being involved with) the NRC, news media, intervenors, public interest groups, or any other person or entity concerning the construction of the Perry plant.
13. Produce all nonconformance reports, deviation analysis reports, action requests, corrective action requests, audit action requests, field variance authorizations, deficiency reports, field questions, stop work notifications, stop work releases, field disposition instructions, field deviation disposition requests, Perry construction work authorizations, conditional releases, and audit reports generated at PNPP from the inception of construction to the present.
14. Produce any trend analyses performed at PNPP.
15. Produce the master deficiency list.
16. Have any engineering change notices been generated at PNPP due to the use of equipment that could not meet the original specifications? If so, produce same.

17. Explain the process by which the documents listed in Interrogatories 13, 14, 15, and 16, above, are generated and closed out. Also explain how these documents are inter-related.
18. Produce all reports filed pursuant to 10 CFR Part 21 and/or 10 CFR 50.55(e) pertaining to construction or components of PNPP, from the inception of construction to present.
19. For each of the contractors/subcontractors identified in response to Interrogatory 1, above, list all other nuclear projects the company has worked on.
20. List all vendors engaged by Applicants and/or their contractors/subcontractors, from the inception of construction to the present, to provide materials or equipment for use in the construction of PNPP. List what types of materials or equipment each vendor is responsible for.
21. Have any vendors been rejected/replaced? If so, explain all details.
22. Do Applicants consider PNPP to be subject to State and local fire and building codes? Explain any provision thereof which Applicants feel does not apply to Perry.
23. If any State or local building and/or fire inspectors have visited the Perry site, list all such visits, by date, giving the name of the inspectors and any findings they made.
24. List all local, State, and/or federal agencies (NRC, OSHA) or organizations (ASME, ANSI) having any authority or jurisdiction over the construction activities at Perry. Do such agencies or organizations (other than NRC) send inspectors to the site? If so, outline all such inspections,

- giving the date, agency/organization, name of inspector, areas inspected, and any findings made.
25. Have any procedures been changed (either Applicants' or contractors') because workers could not comply with the original procedures? If so, produce these.
 26. What QA procedures and standards do Applicants and their contractors have for non-safety related structures and components? Briefly describe the QA program for non-safety related work.
 27. Define "safety related" as it relates to PNPP. What criteria are used for classifying structures, equipment, or components as safety related or non-safety related? Who is responsible for this classification?
 28. One of the criticisms made by the Technical Staff Analysis Report on Quality Assurance to the President's Commission on the Accident at Three Mile Island is that the "safety related" classification is too narrow and that quality control for non-safety related equipment is inadequate. Do Applicants agree? If not, why not?
 29. If Applicants object to the consideration of non-safety related items in this proceeding, state why, giving every applicable reference in the Atomic Energy Act, Energy Reorganization Act, NRC regulations, case law and court decisions.
 30. Have Applicants verified that Class 1E cables pulled by L.K. Comstock prior to the November 1981 stop work order have met specified requirements (as required by the confirmation of action letter, November 18, 1981 from J.

Keppler to D. Davidson)? Define the "specified requirements." Were all such cables checked, or only a sampling? Detail any deficiencies discovered and how they were corrected.

31. Why does Amendment 8 (dated August 25, 1982) to FSAR page 3.8-95 change the value for density of the bioshield concrete from 190 pcf to 140 pcf and totally delete any reference to the compressive strength of the concrete? Is this a result of the voids and lightweight concrete discovered in the bioshields?
32. What repair procedures will Applicants use to correct the problems with the bioshield concrete? Will these methods result in the same density and compressive strength for the concrete as was originally designed? If not, why not?
33. Discuss the safety implications of the bioshield concrete deficiencies. I.e., would this problem accerelate neutron activation of containment equipment, result in higher radiation exposures for workers, or aggravate the course of any accident?
34. Has the cause of the bioshield concrete deficiencies been determined? If so, explain in full.
35. Do any other structures at PNPP use the same type of heavy-weight concrete as is used in the bioshields? If so, have they been inspected for deficiencies? With what results?
36. Were the bioshields subject of any inspections before the deficiencies were identified? If so, produce all records pertaining to any such inspection.
37. In the August 16, 1982 letter from D. Davidson to A. Schwencer

it is stated that it is now necessary for Applicants to take credit for the strength the annulus concrete supplies to the containment shell because of "increased loads, methods of applying load calculations, and construction problems." Explain in detail exactly what types of construction problems are involved and how the annulus concrete will alleviate their effects on containment strength.

38. Is this annulus concrete been placed yet in Unit 1? In Unit 2? .If not, when is it expected to be placed? If the concrete has been placed, provide documentation that it meets all applicable criteria.
39. Has the re-examination of the containment weld radiographs (see letter from D. Davidson to J. Keppler, May 3, 1982) been completed? Describe in detail all results of this re-examination.
40. If any welds in the containment have to be repaired, explain how this will be done. Are all such welds still accessible? Approximately how many welds will need repair?
41. Explain how the containment weld radiographs became a point of concern in 1982 when the welds were done in 1978? Why the delay?
42. Discuss the safety significance of these rejectable welds if they had not been identified and repaired. Would they weaken the containment?
43. Has an evaluation of the causes of the welding deficiencies in the Unit 1 suppression pool floor plates (see April 23, 1982 letter from D. Davidson to J. Keppler) been completed? Describe any such findings. What repairs and/or corrections

will be made to the existing welds? What changes to welding procedures will be made to avoid similar problems in the future?

44. Discuss the safety implications of such deficiencies in the suppression pool welds.
45. The April 23, 1982 letter states that "all floor plate welds in this area contain one or more of the above noted defects to some degree." What "area" is referred to? How many welds are involved?
46. Has an investigation been completed concerning the problem with the identification and traceability of safety related valves (see March 25, 1982 letter from D. Davidson to J. Keppler)? Describe the results of the investigation; i.e., what caused the problem, have all valves been identified/traced, can the problem be prevented in the future? Generally, in what plant systems are the valves used?
47. Has repair of the suppression pool clad floor plate weld which was concealed (see March 31, 1982 letter from D. Davidson to J. Keppler) been completed? Exactly how large was this weld defect? If the attempted concealment had not been reported, would regular inspections have discovered it? Explain why or why not.
48. Have there been any instances of drug and/or alcohol use or abuse by workers at the Perry site? If so, provide all details.
49. Have any workers been fired by Applicants and/or their contractors/subcontractors because of allegations of poor construction or QA practices at Perry they made to

the NRC, news media, or any other person or entity? If so, provide all details.

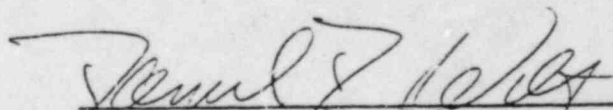
50. Explain fully any problems or deficiencies concerning Dijkers safety relief valves and how they were corrected.
51. Explain fully any problems or deficiencies concerning the Unit 2 polar crane welds and how they were corrected.
52. NRC Chairman Palladino has stated that quality must be built into a plant and cannot be inspected in. Do Applicants agree? If not, why not? Explain how Applicants' QA program ensures that quality is built in.
53. Define specifically the influence of cost and scheduling considerations on the Perry QA program. E.g., are decisions to write non-conformance reports or to use defective components or materials "as-is" influenced in any way by cost and scheduling factors?
54. Document each and every instance in which equipment and/or materials not meeting specifications were used "as is." For each case, name all personnel responsible for this decision to "use as is" and their qualifications, list any instance in which an engineering judgement was used in reaching that decision and the basis of that judgement.
55. Provide all documentation concerning corrective actions taken regarding the improper alignment of the Unit 1 RPV (see Unresolved Item 440/78-12-05). The following questions relate to the closure of the above unresolved item in the NRC inspection report and related correspondence dated November 21, 1979.
 - (a) On what previous experience was the "use as is" deci-

- sion made by GE safety/reliability personnel based?
- (b) Was this decision based on any engineering judgement?
If so, provide the basis of that judgement.
- (c) Give the names of the GE personnel responsible for that decision, and list their professional qualifications.
56. Describe in detail the "fabrication deficiencies" which caused rejection of service water intake structures, as documented in NRC Inspection Report 50-440/80-09, p. 4.
- (a) Were any design changes made as a result of this problem?
- (b) Provide the names of all personnel involved in this decision and give their qualifications.
- (c) Was this decision based on any engineering judgement?
If so, give the basis of that judgement.
57. Have Applicants determined whether any piping subassemblies from either Associated Piping and Engineering or ITT Grinnell Industrial Piping are used at Perry? (IE Bulletin 82-01 describes practices by these firms involving the alteration of radiographs.) If such components are being used at Perry, what corrective actions are being taken?
58. Have Applicants determined whether main control panels at Perry have any weld defects (see IE Information Notice 82-34)? What actions are being taken to assess, and if necessary, to correct this problem?
59. Produce all responses to and notes, memoranda, or other documents pertaining to NRC IE Bulletins, Circulars, and

Information Notices.

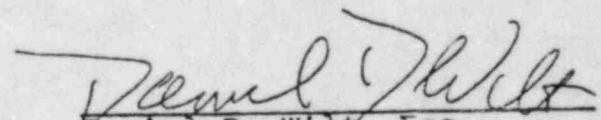
60. Have Applicants determined whether any electrical penetration assemblies supplied by the Bunker Ramo Corporation have been used at Perry (see IE Information Notice 82-40)? What actions are being taken to assess, and if necessary, to correct this problem?
61. Describe in detail Applicants' procedures for evaluating the significance ^{of} and responding to NRC IE Bulletins, Circulars, and Information Notices.
62. Define specifically the role of engineering judgement in the Perry QA program. E.g., are decisions to write non-conformance reports or to use "as is" defective components or materials based on engineering judgement? Upon what are such judgements based?

Respectfully submitted,


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PROOF OF SERVICE

This is to certify that a copy of this Third Set of Interrogatories has been sent to all persons on the Service List on this 30 day of September, 1982.


Daniel D. Wilt, Esq.
Attorney for Sunflower Alliance