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UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION
BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

IN RE: THE MATTER OF : Docket Nos. 50-250-SP
50-251-SP
FLORIDA POWER & LIGHT :
COMPANY, : (Proposed Amendments to
(Turkey Point Nuclear : Facility Operating License
Generating Units Nos. 3 & 4) : To Permit Steam Generator
Repair)

INTERVENOR, MARK P. ONCAVAGE'S REQUEST
FOR THE PRODUCTION OF DOCUMENTS FROM
LICENSEE, FLORIDA POWER AND LIGHT COMPANY

Pursuant to 10 CFR §§2.740 and 2.741, Intervenor, MARK
P. ONCAVAGE, requests the production by Licensee, FLORIDA
POWER AND LIGHT (FPL), of the following documents:

I. DEFINITIONS

1. "You" or "your" means Licensee corporation, any
subsidiary or division owned or controlled in whole or in
part, any property or interest owned or controlled in whole
or in part, any predecessor or successor entity, any agent,
attorney, consultant, employee, representative or officer
acting on behalf of corporation or entity.

2. "Document" means each tangible thing recording or re-
producing, in any manner, any visual or auditory data in your
possession, control or custody, including without limiting the
generality of its meaning, correspondence, memoranda, transcripts,
photographs, stenographic or handwritten notes, studies,
evaluation, analyses, reports, reviews, working papers, books,
charts, telegrams, pamphlets, pictures, video or audio tapes,
voice recordings, computer tapes, printouts or cards, microfilming,

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microfiches, and any papers on which words have been written, printed, typed, or otherwise affixed, and shall mean a copy where the original is not in the possession, control or custody of plaintiff, and shall mean every copy of every document where such copy is not an identical copy of an original.

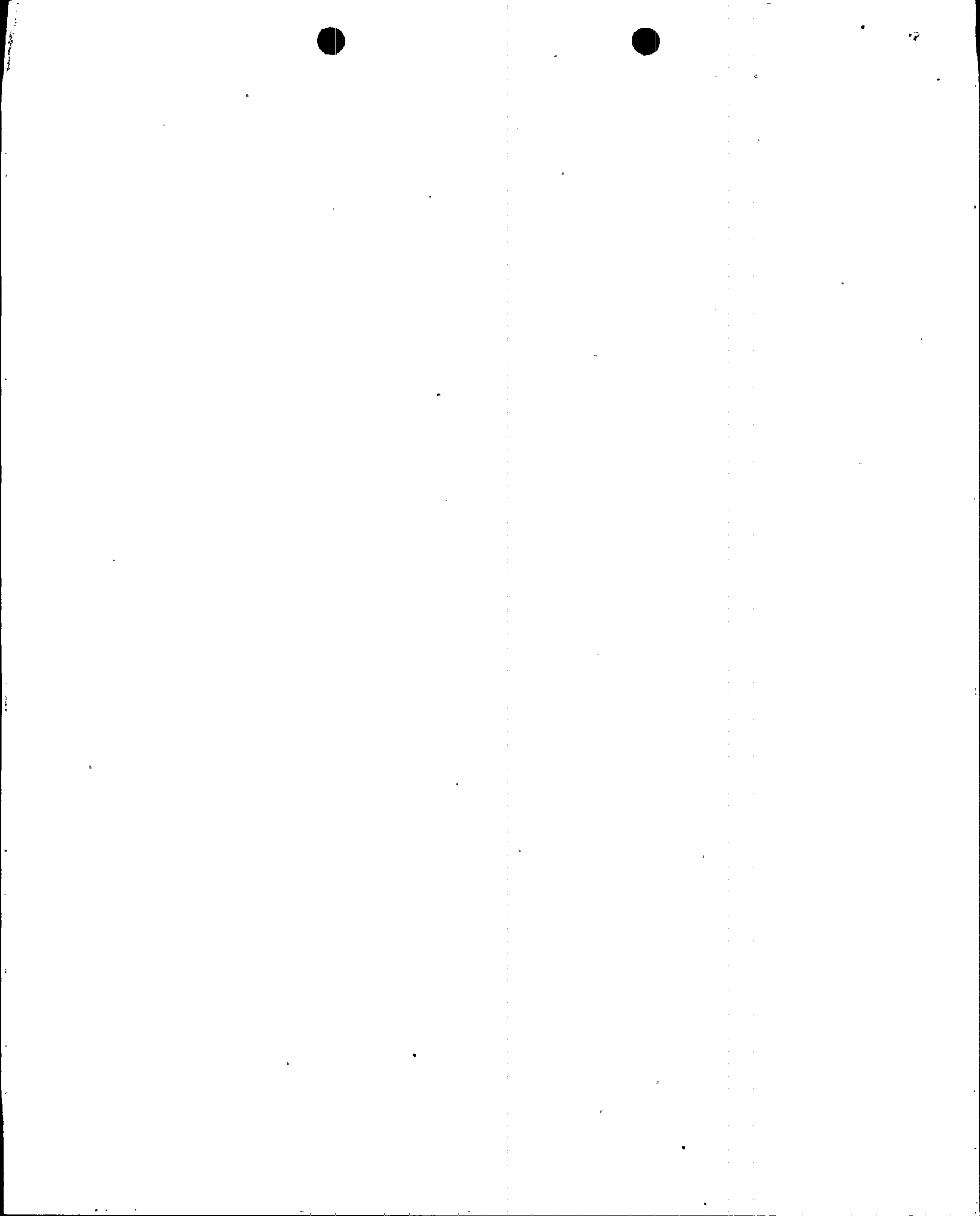
II. INSTRUCTIONS

A. In producing these documents, you are requested to furnish all documents known or available to you regardless of whether these documents are possessed directly by you, or by your agents, employees, representatives, or investigators, or by your attorneys or their agents, employees, representatives or investigators.

B. If any of these documents cannot be produced in full, produce them to the extent possible, specifying your reasons for your inability to produce the remainder and stating whatever information, knowledge, or belief you have concerning the unproduced portion.

C. This Request is a continuing one. If, after producing the requested documents, you obtain or become aware of any further documents responsive to this Request, you are required to produce such additional documents to Intervenor.

D. With respect to those documents as to which you may claim privilege, attorneys' work product or trial preparations, your counsel is requested to identify each such documents in writing on or before the date of production specified below, together with the following information; the nature, date,



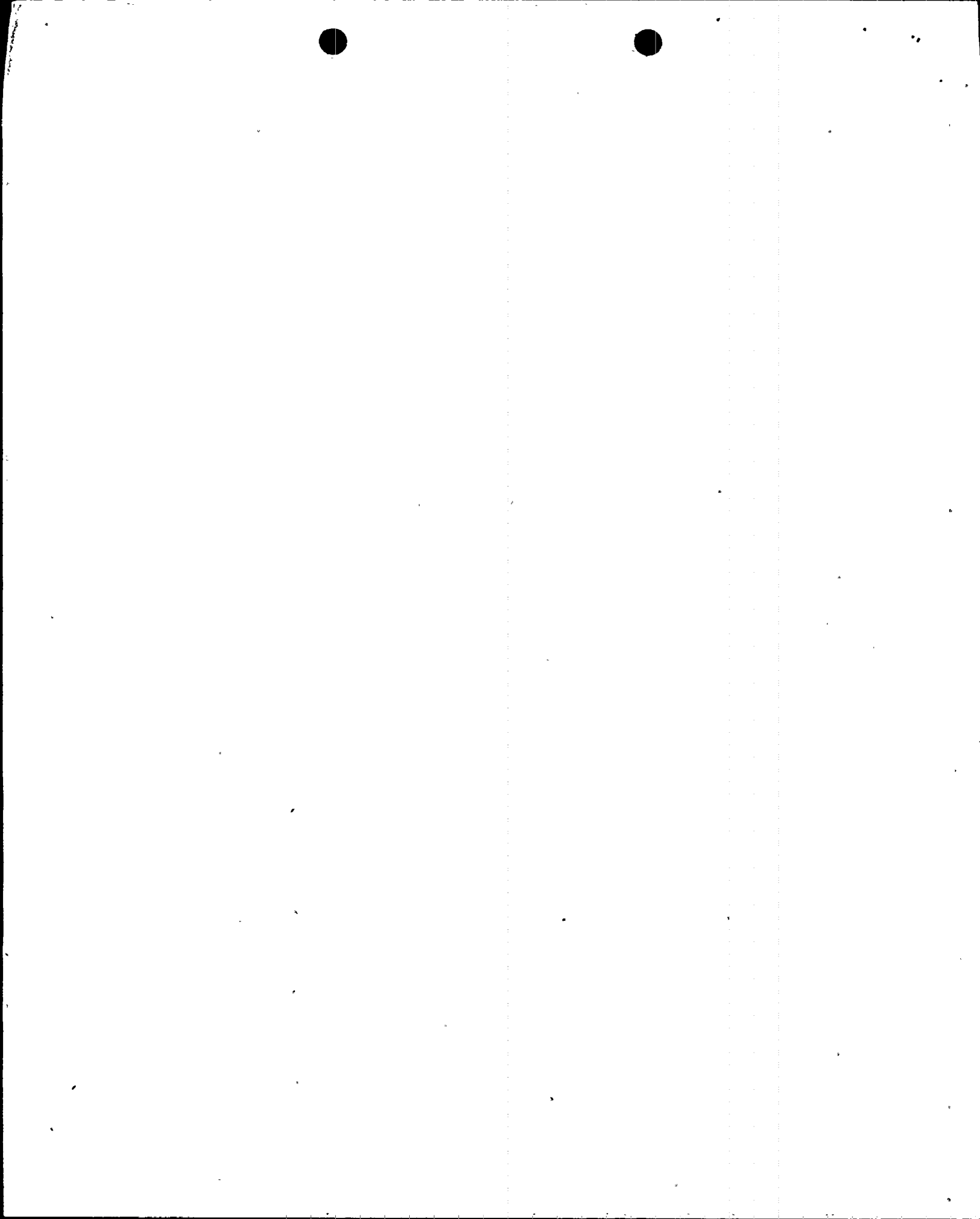
subject matter and author of any such document as well as the names and job titles, of all persons to or by whom such document was directed, addressed or received, and the paragraph of this request to which such document responds. Your counsel is further required to set forth as to each document the basis for such claim.

E. The requested documents are to be produced at the offices of Neil Chonin or at such time and place as mutually agreed to by counsel for Intervenor, MARK P. ONCAVAGE, and FLORIDA POWER & LIGHT COMPANY, at which time someone acting on their behalf will examine originals or exact duplicate photographic copies of originals of the documents described below and designate which documents are to be reproduced for them. All documents should be produced in the same order and arrangement as they now exist. In making the production, FLORIDA POWER & LIGHT COMPANY should identify the title of the file drawer, file folder and subfolder in which the documents are contained.

III. DOCUMENTS REQUESTED

1. FLORIDA POWER & LIGHT COMPANY Health Physics Manual. This document is relevant to the subject matter of this proceeding because FPL has indicated that it is of general applicability to Licensee's answers to Intervenor's interrogatories.

2. All documents which embody, refer or relate to Turkey Point Plant Procedures. The Turkey Point Plant Procedures are of general applicability to all of Intervenor's contentions.



Intervenor is therefore in substantial need of all such documents in the preparation of this case.

3. A list of the persons whom you intend to have testify as expert witnesses. Provide the name, address, educational background and professional qualifications of each such person.

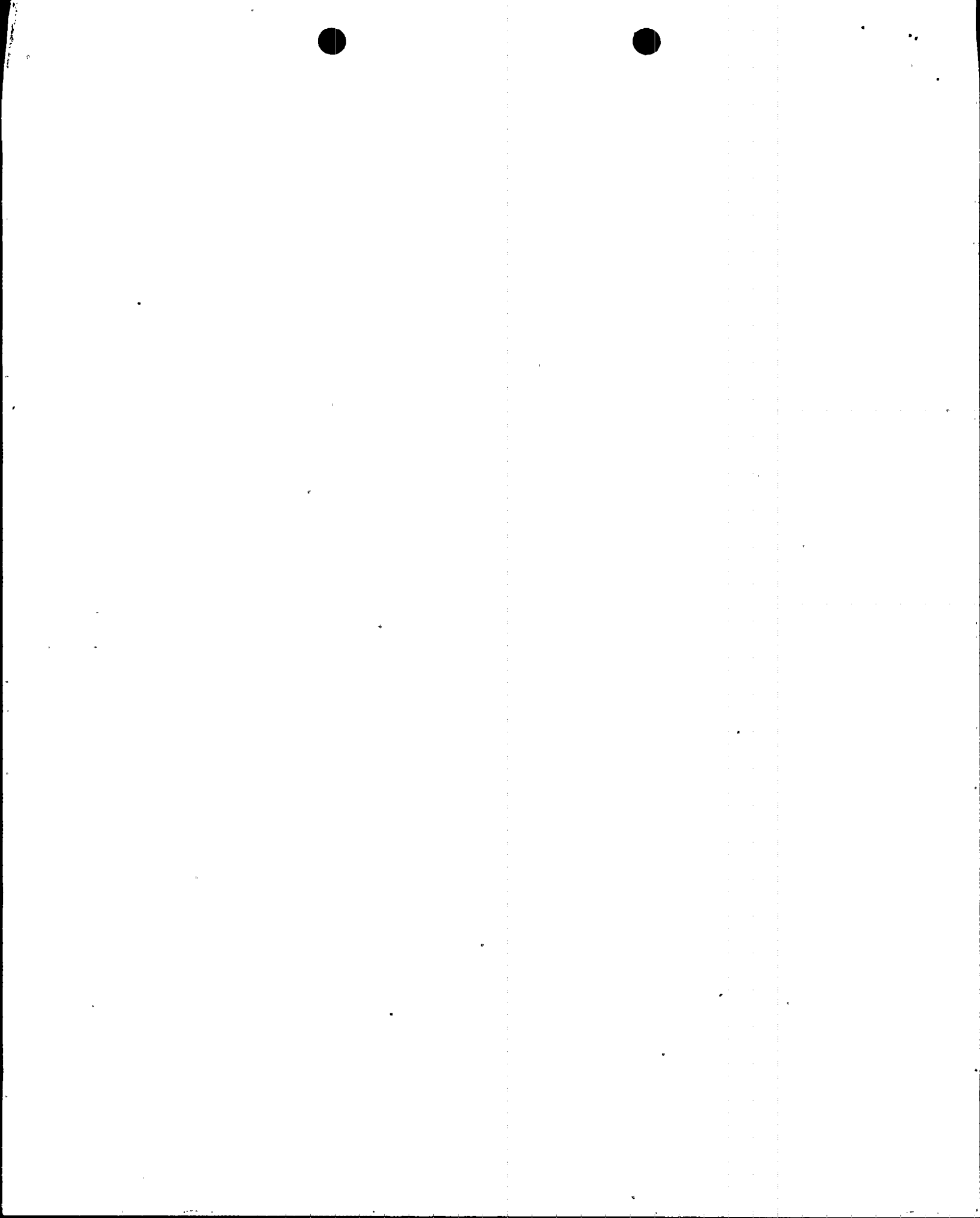
4. All documents which you intend to employ in presenting a direct case on the subject matter of this proceeding.

5. All documents which embody, refer or relate to the Turkey Point Plant approved chemistry specifications for the primary and secondary coolant systems which will be in effect at the time the new assemblies are placed into operation. These chemistry specifications are relevant to Intervenor's Contentions 1 and 14.

6. All documents which embody, refer or relate to inspections or tests that are planned by you to assure containment building and reactor coolant system integrity following the repair, including any revision to the SGRR. Such documents are applicable to Contentions 1, 2 and 3.

7. All documents which embody, refer or relate to local decontamination procedures which will be employed at Turkey Point, during and following the repairs; for equipment, structures and system components. Such documents are relevant to Contention 1.

8. The Turkey Point Plant Emergency Procedure 20106, National Emergencies, the site Emergency Plan and any other procedures which would be followed by you in the event of a



hurricane during or subsequent to the steam generator repair. These documents are relevant to Contention 1.

9. All documents which refer or relate to your determination of the estimated capital costs for: a) the steam generator repair; and b) for operating the Turkey Point Plant before, during and after the repairs. Intervenor is in substantial need of these documents in the preparation of the case as it relates to Contentions 1; 2 and 13.

10. All documents which embody, refer or relate to the planned condensate polishing demineralizer system. Such documents are relevant to Contention 7.

11. A copy of your response to the NRC Staff letter to Dr. Uhrig dated November 19, 1979.

12. All documents which embody, relate or refer to the comparisons of water quality characteristics of Biscayne Bay Water, cooling canal water and Card Sound water regarding the estimates of environmental degradation caused by all aspects of the proposed repairs. The information contained therein is relevant to Contention 7.

13. All documents which embody the following procedures which have been identified by you and are used by you for monitoring surveillance, measurements and testing in the radiological environmental monitoring program:

Procedure
Number

Procedure

A. Quality Control Procedure for Collection, Identification and Reporting of Intralaboratory Quality Control.

- B. Quality Control Procedure for Analysis and Reporting of Intralaboratory Quality Control.
- I. Sampling Procedure for Air Sampling.
- II. Sampling Procedure for Biota Sampling.
- III. Sampling Procedure for Gamma Background.
- IV. Sampling Procedure for Water and Precipitation.
- V. Sampling Procedure for Vegetation.
- VI. Sampling Procedure for Food Crops.
- VII. Sampling Procedure for Silt.
- VIII. Sampling Procedure for Soil.
- IX. Sampling Procedure for Algae.
- X. Sampling Procedure for Milk.
- XI. Sampling Procedure for Collecting and Identifying Samples for Intralaboratory Quality Control Program.
- XII. Sampling Procedure for Annual Garden Census.
- XIII. Sampling Procedure for Milk-Semi Annual Dairy Animal Census.
- 1. Calibration of Thermoluminescent Dosimeters.
- 2. Calibration of Nuclear-Chicago Proportional Counter.
- 3. Calibration of Hewlett Packard Gamma Analyzer.
- 4. Calibration of Packard Tri-Carb Liquid Scintillation Spectrometer.
- 7. Calibration of Rockwell Gas Meters.
- 8. Calibration of Ion Chambers.

The foregoing procedures are relevant to Contention 9.

14. The reports containing the test results of all environmental radiological sampling and analyses done since Turkey Point Units 3 and 4 began operations. This information

is relevant to Contentions 9 and 11.

15. The Turkey Point Technical Specifications and all other documents which embody, refer or relate to descriptions of the frequency, locations and dates of the most recent employment of the monitoring procedures listed in Request #13.

16. All documents which embody, refer or relate to the Critical Path Network Method and all other methods used by you to determine outage time. These documents are relevant to Contention 11.

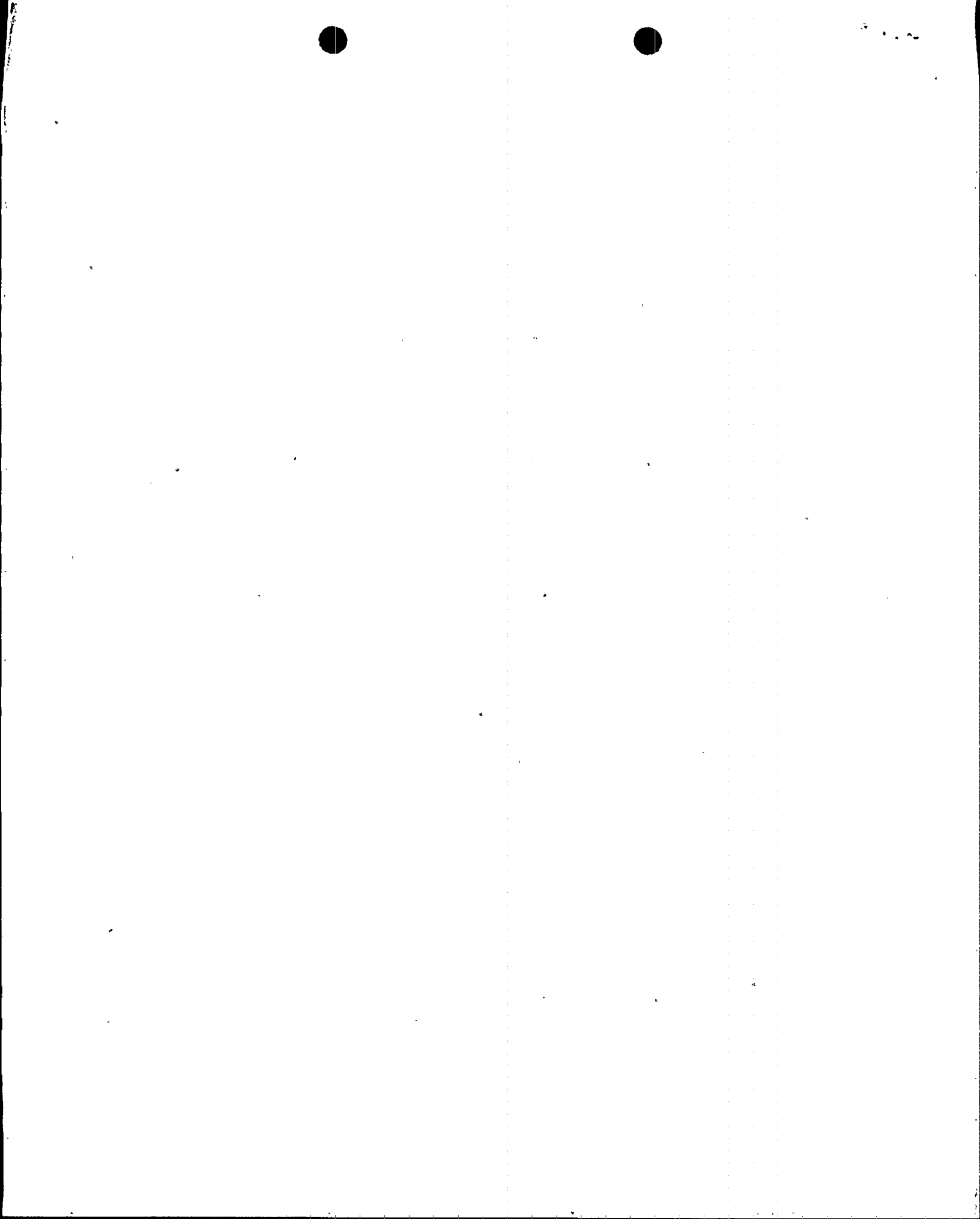
17. All documents which embody, refer or relate to The Turkey Point Plant Area Radiation Monitoring System and Process Monitoring System and any other monitoring systems which will be employed by you during the repairs. These documents are relevant to Contention 13.

18. All documents which embody, refer or relate to the design and specifications of the CUCS Holdup Tanks, including but not limited to blueprints, safety evaluations, and studies relating to durability. These documents are relevant to Contentions 13 and 3.

19. All documents which embody, refer or relate to procedures employed by you in the event of a fire at Turkey Point Plant, including but not limited to Turkey Point Emergency Procedure 20107. These documents are relevant to Contention 14.

20. All documents which embody, refer or relate to your load forecast used to plan future generating units, including but not limited to FPL's Ten Year Power Plant Site Plan 1979-1988.

21. All documents which embody, relate or refer to the details, progress, results and future projections of any



energy conservation measures undertaken or planned by you.

22. The report by Dr. Robert Kunin entitled Disposal of Spent Powdex Ion Exchange Materials. This report is relevant to Contention 7.

23. All documents which embody, refer or relate to all studies or reports on demineralizer effluents which you have relied upon in making decisions concerning the proposed repairs.

24. The document cited in the SGRR entitled "Decontamination of a PWR Primary System, SENA Plant," Volume 33, Proceedings of the American Power Conference, 1971.

25. All documents which embody, refer or relate to any warranty agreements between you and Westinghouse Electric Corporation pertaining to the new steam generator lower assemblies.

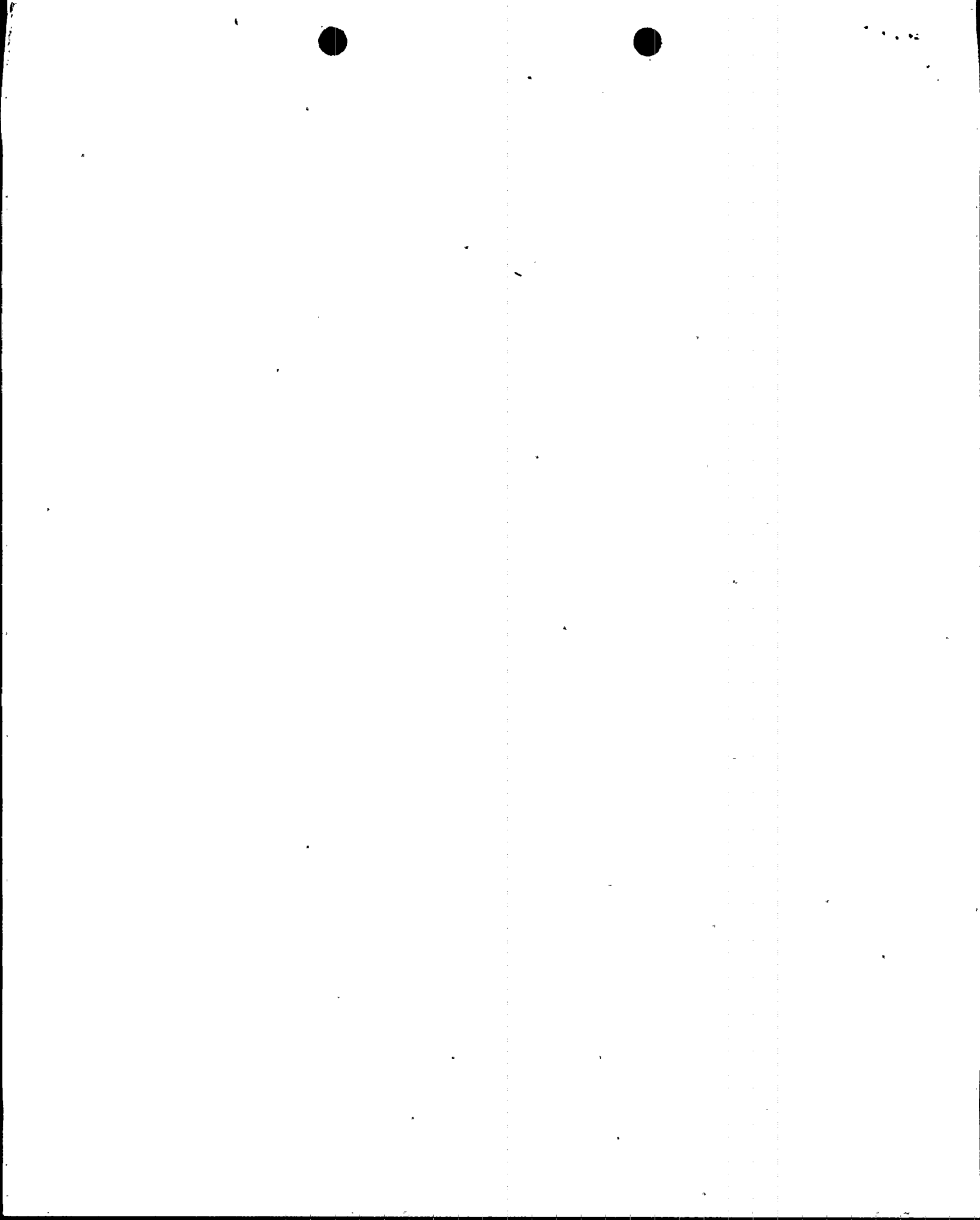
To the best of Intervenor's knowledge, the foregoing documents are not available in FPL's Local Public Document Room. Intervenor is therefore unable without undue hardship to obtain the substantial equivalent of these materials by means other than this Request for Production.

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true and correct copy of the foregoing was mailed this 18th day of March, 1980 to the attached list of addressees.

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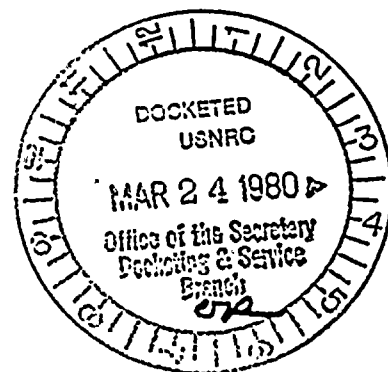
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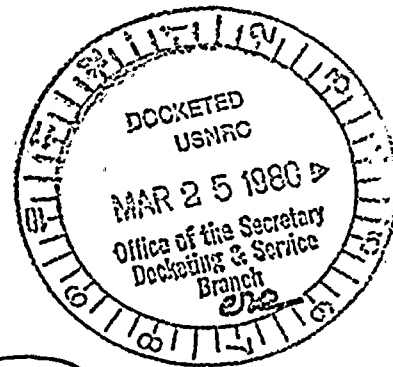
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UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY & LICENSING BOARD



In the Matter of	)	Docket Nos. 50-250-SP
	)	50-251-SP
FLORIDA POWER & LIGHT COMPANY	)	(Proposed Amendments to
	)	Facility Operating License
(Turkey Point Nuclear Generating	)	to Permit Steam Generator
Units Nos. 3 and 4)	)	Repairs)

MOTION TO AMEND CONTENTIONS

Intervenor, Mark Oncavage, moves the Board to permit an amendment of Contention 1 to include Contention 1B: The application of Florida Power and Light for an amendment to its facility operating license involves a material alteration of a licensed facility which requires a construction permit to issue prior to the issuance of the amendment, which in turn requires the preparation of an environmental impact statement.

In support of his motion Intervenor shows:

1. Contentions of an intervenor may be amended. 10 C.F.R. §2.714(a)(3) as explained in 43 Fed. Reg. 17798 (1978).

2. It is the purpose of 10 C.F.R. §2.714(a)(3) that contentions can be

expanded or amended because of new information which comes to light after petitioners have been admitted, such as information in the Commission staff's safety evaluation or environmental impact statement. [43 Fed. Reg. 17798, 17799 (1978)]

3. A contention can be amended only with the approval of the presiding officer based on a balancing of the factors listed in 10 C.F.R. §2.714(a)(1);

GOOD CAUSE FOR FAILURE
TO FILE ON TIME

As will be shown in a discussion of the proposed amendment below, the contention has been primarily motivated by the licensee's responses to the Intervenor's interrogatories.

AVAILABILITY OF OTHER MEANS
WHEREBY THE PETITIONER'S
INTEREST WILL BE PROTECTED

The Nuclear Regulatory Commission is presently considering the licensee's application to amend its operating license. The Atomic Safety Licensing Board has the authority to issue that amendment. The Board also has the authority to require an environmental impact statement before it issues or denies the amendment. There exists no means, other than the Board, to have the Atomic Safety Licensing Board order and consider an environmental impact statement before it rules on the amendment to the operating license.

EXTENT TO WHICH THE PETITIONER'S
PARTICIPATION MAY REASONABLY BE
EXPECTED TO ASSIST IN DEVELOPING
A SOUND RECORD

The petitioner will offer the testimony of Dale G. Bridenbaugh, Gregory C. Minor and Robert Anderson to show that the proposals of the licensee involve a material alteration

of the licensed facility as that term is defined at 38 Fed. Reg. 22796 (1973) and 39 Fed. Reg. 10554 (1974). The curriculum vitae of these three experts are attached hereto as Exhibit I.

EXTENT TO WHICH THE
PETITIONER'S INTEREST
WILL BE REPRESENTED BY
EXISTING PARTIES

Neither the staff of the Nuclear Regulatory Commission nor the licensee hold the position that the repairs at Turkey Point Units 3 and 4 involve a material alteration of the licensed facility as that term is defined in 38 Fed. Reg. 22796 (1973) and 39 Fed. Reg. 10554 (1974).

EXTENT TO WHICH THE
PETITIONER'S PARTICIPATION
WILL BROADEN THE ISSUES OR
DELAY THE PROCEEDING

In the existing Contention 1 the Intervenor has contended that an Environmental Impact Statement should issue, but based its contention on grounds different from those contained in Contention 1B. The scope of the inquiry on what would be Contention 1A will be much broader than the inquiry required under Contention 1B. In order to avoid any delay, Contentions 1A and 1B can be heard together as part of the same proceeding. Thus the broadening will be very small and the delay very little if the new contention is allowed.

4. Under 10 C.F.R. §2.714(a)(3) a motion to amend contentions must satisfy the specificity requirements of 10 C.F.R. §2.712(a)(2).

THE INTEREST OF THE
PETITIONER IN THE
PROCEEDING

By order of this Board dated August 3, 1979, Mark P. Oncavage is a party-intervenor in this cause.

HOW THE PETITIONER'S
INTEREST MAY BE AFFECTED
BY THE RESULTS OF THE
PROCEEDING

At the present stage of this proceeding, the Intervenor is the representative of the present generation "as trustee of the environment for succeeding generations." See 42 U.S.C. §4331(b)(2). In this quasi-fiduciary position he has the responsibility to:

- (1) assure for all Americans safe, healthful, productive, and esthetically and culturally pleasing surroundings;
- (2) attain the widest range of beneficial uses of the environment without degradation, risk to health or safety, or other undesirable and unintended consequences;
- (3) preserve important historic, cultural, and natural aspects of our national heritage, and maintain, wherever possible, an environment which supports diversity and variety of individual choice;
- (4) achieve a balance between population and resource use which will permit high standards of living and a wide sharing of life's amenities; and
- (5) enhance the quality of renewable resources and approach the maximum attainable recycling of depletable resources.

Additionally, Mr. Oncavage, his wife and his son live

approximately 15 miles from the Turkey Point power facility. He owns a sailboat and cruises the waters of Biscayne Bay near Turkey Point and engages in fishing, crabbing, swimming, skin diving and underwater photography.

In order to protect these interests Mr. Oncavage desires that the steam generator repairs at the Turkey Point facilities be performed in a fashion that will have as little adverse impact as possible on the natural environment. An obvious method for determining whether the repair activities will have a degrading impact on the environment is to have an Environmental Impact Statement made. If a statement is not made Mr. Oncavage loses a valuable tool for determining the degree to which the steam generator repairs will degrade the environment. To the extent that the environment damage will be prevented by its disclosure in an Environmental Impact Statement, Mr. Oncavage will be greatly affected by the preparation of an Environmental Impact Statement.

SUBJECT MATTER OF THE
PROPOSED AMENDMENT TO
THE CONTENTIONS

If an application for an amendment to a license involves a material alteration to a licensed facility, a construction permit will be issued prior to the issuance of the amendment to the licensee. 10 C.F.R. §50.91. Alteration, as used in that regulation, means a change in a technical specification or a change which involves an unreviewed safety question.

38 Fed. Reg. 22796 (1973) and 39 Fed. Reg. 10554 (1974). An environmental impact will be prepared and circulated prior to the issuing of a construction permit issued pursuant to 10 C.F.R. Part 50. See 10 C.F.R. §51.5(a)(1).

The integrity of tubes in a Westinghouse steam generator is considered by the Nuclear Regulatory Commission to be an unresolved safety issue. NUREG-0410, N.R.C. Program for the Resolution of Generic Issues Related to Nuclear Power Plants, Category A Technical Activity No. A-3, U.S. N.R.C. Jan. 1978.

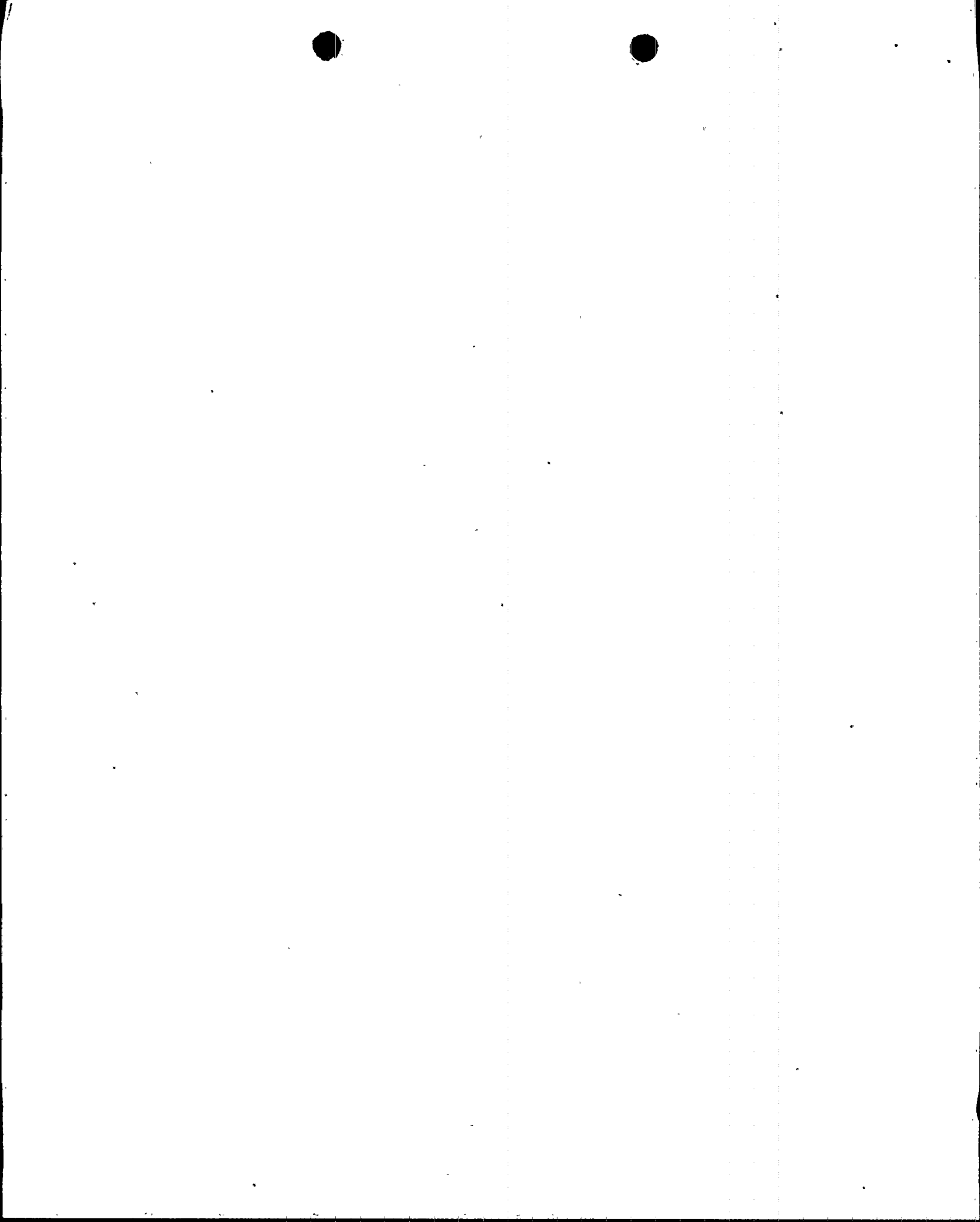
It is stated in the Environment Impact Appraisal at §2.2 that

As of May 1979, tube plugging for various reasons has resulted in removing about 17.5% of the steam generator tubes in Unit 3 and about 20.5% of the tubes in Unit 4.

Florida Power and Light has claimed at Section 2.2 of its Steam Generator Repair Report that

Research, development and testing have been utilized to select design parameters, material and component configurations which will prevent degradation of the repaired steam generators. (Emphasis added)

In Intervenor's interrogatories 1 - 7 and 1 - 8 he asked licensee to provide all of its test data and calculations in support of its allegation that with its newly installed steam generators it could prevent tube degradation. As can be seen from the answers to these questions, provided by the licensee, it has no test data or calculations or any

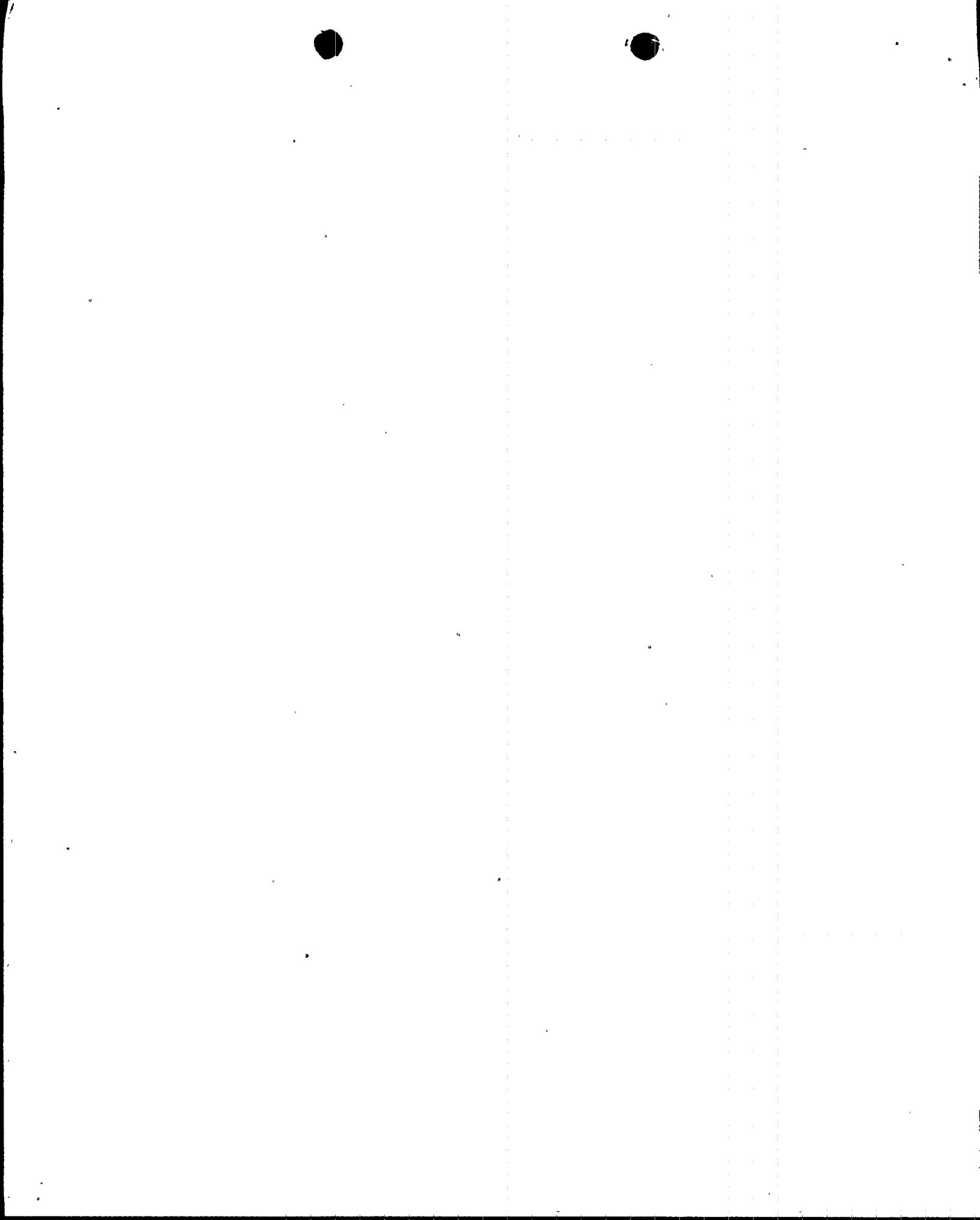


empirical facts to support its claim that it can now prevent tube degradation.

After receiving these answers Intervenor contacted his expert witnesses for an evaluation of the Florida Power and Light claims that it could prevent tube degradation. Dale G. Bridenbaugh and Gregory C. Minor will testify that the failure of multiple tubes in the steam generator prior to or during a loss of coolant accident or a main steam line break accident could impact the ability of the emergency core cooling system to perform its intended function due to excess leakage between the primary and secondary coolants.

At the time of initial licensing, the FSAR indicated confidence in the design and reliability of the steam generators. What in fact happened was a large failure rate experienced in the tubes of the steam generators. There still remains no test data or calculations to support the claim that the new steam generators will encounter no tube denting and that degradation will be prevented. This is a safety question which has not been reviewed before.

The licensee claims in Steam Generator Repair Report §2.2.1.1 that the increased circulation ratio will prevent and inhibit corrosion. Dr. Robert Anderson will testify that corrosion problems tend to increase with increases in fluid velocity. At higher velocities turbulence is more pronounced which results in concentration gradients forming



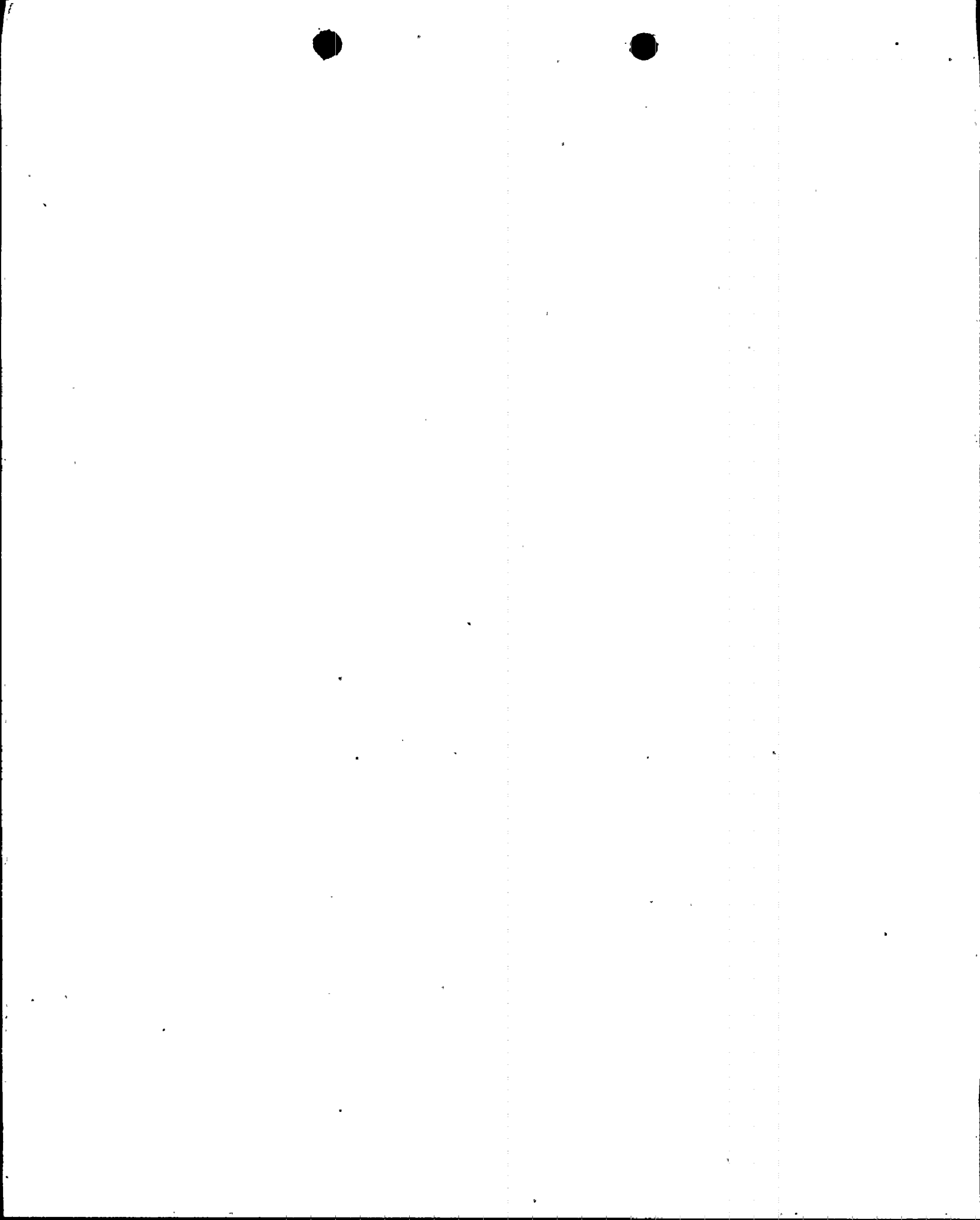
by the eddy currents and erosion can increase. Dr. Anderson will testify that demineralized water is more aggressive to metal than non-demineralized water. In conjunction with the testimony of Messrs. Bridenbaugh and Minor that the tube denting problem has not been solved, Dr. Anderson will testify that the blocking of those tubes would redistribute the already existing sludge in a new manner causing further tube failures..

ON-SITE STORAGE OF STEAM GENERATORS

In response to Interrogatory 6-11 the licensee lists the guidelines that will be followed in designing the steam generator storage facility. Of all of the guidelines listed, none of them are Nuclear Regulatory Commission guidelines. For the Nuclear Regulatory Commission this is an unreviewed question.

In response to Interrogatory 6-21, the licensee states that it has no provisions for the collection of condensation inside the steam generator storage facility. As a consequence, condensation may form on the steam generators providing a liquid pathway for removable nucleids or nucleids in solution.

In response to Interrogatory 6-11, the licensee has stated that the facility will be designed to withstand winds of 120 m.p.h. The Intervenor will offer testimony of



hurricanes that have passed through Dade County, Florida, along Biscayne Bay, with winds in excess of 120 m.p.h. In response to Interrogatory 6-35, Florida Power and Light admits that it has no final calculations evaluating the effects of a design basis hurricane upon the foundations of the steam generator storage facility. The totality of these answers would indicate that the storage facility will be the source of a potential radionucleid release to the environment and that during a hurricane the integrity of the storage facility itself is in question. These are safety questions that are both material and have not been reviewed in the past.

Respectfully submitted,

By.

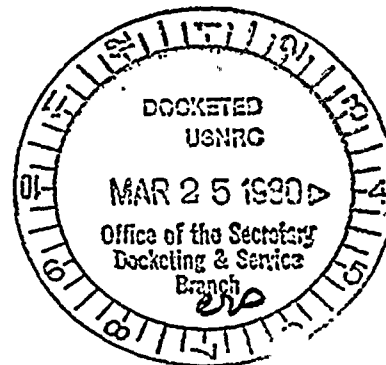

HENRY H. HARNAGE


NEIL CHONIN

Attorneys for MARK A. ONCAVAGE,
Intervenor

RESUME

GREGORY C. MINOR
MHB Technical Associates
1723 Hamilton Avenue
Suite K
San Jose, California 95125
(408) 266-2716



EXPERIENCE

1976 - Present:

Partner - MHB Technical Associates, San Jose, California. Engineering and Energy consultant to state, federal and private organizations and individuals. Major activities include studies of safety and risk involved in energy generation, providing technical consulting to legislative, regulatory, public and private groups and expert witness in behalf of state organizations and citizens' groups. Was co-editor of a critique of the Reactor Safety Study (WASH-1400) for the Union of Concerned Scientists and co-author of a risk analysis of Swedish reactors for the Swedish Energy Commission. Served on the Peer Review Group of the NRC/TMI Special Inquiry Group (Rogovin Committee). Actively involved in the Nuclear Power Plant Standards Committee work for the Instrument Society of America (ISA).

1972 - 1976:

Manager - Advanced Control and Instrumentation Engineering, General Electric Company, Nuclear Energy Division, San Jose, California.

Managed a design and development group of thirty-four engineers and support personnel designing systems for use in the measurement, control and operation of nuclear reactors. Involved coordination with other reactor design organizations, the Nuclear Regulatory Commission, and customers, both overseas and domestic.

Responsibilities included coordinating and managing the design and development of control systems, safety systems, and new control concepts for use on the next generation of reactors. The position included responsibility for standards applicable to control and instrumentation, as well as the design of short-term solutions to field problems. The disciplines involved included electrical and mechanical engineering, seismic design and process computer control/programming.

1970 - 1972:

Manager - Reactor Control Systems Design - General Electric Company, Nuclear Energy Division, San Jose, California.

Managed a group of seven engineers and two support personnel in the design and preparation of the detailed system drawings and control documents relating to safety and emergency systems for nuclear reactors. Responsibility required coordination with other design organizations and interaction with the customer's engineering personnel, as well as regulatory personnel.

1963 - 1970:

Design Engineer - General Electric Company, Nuclear Energy Division, San Jose, California.

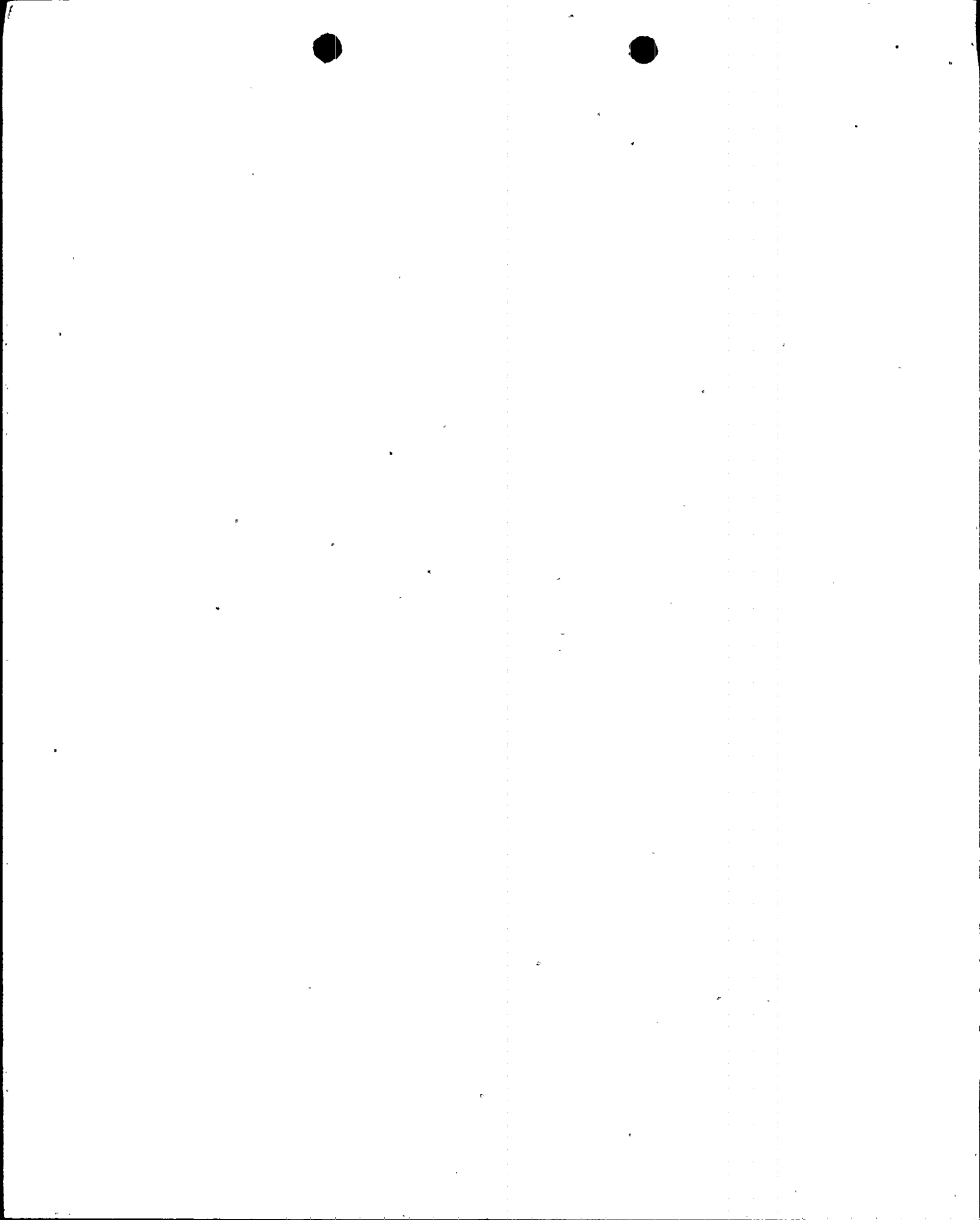
Responsible for the design of specific control and instrumentation systems for nuclear reactors. Lead design responsibility for various subsystems of instrumentation used to measure neutron flux in the reactor during startup and intermediate power operation. Performed lead system design function in the design of a major system for measuring the power generated in nuclear reactors. Other responsibilities included on-site checkout and testing of a complete reactor control system at an experimental reactor in the Southwest. Received patent for Nuclear Power Monitoring System.

1960 - 1963:

Advanced Engineering Program - General Electric Company, Assignments in Washington, California, and Arizona.

Rotating assignments in a variety of disciplines:

- Engineer - Reactor maintenance and instrument design, KE and D reactors, Hanford, Washington, Circuit design and equipment maintenance coordination.
- Design Engineer - Microwave Department, Palo Alto, California. Work on design of cavity couplers for TWT's.
- Design Engineer - Computer Department, Phoenix, Arizona. Design of core driving circuitry.
- Design Engineer - Atomic Power Equipment Department, San Jose, California. Circuit design and analysis.
- Design Engineer - Space Systems Department, Santa Barbara, California. Prepare control portion of satellite proposal.



- Technical Staff - Technical Military Planning Operation. (TEMPO), Santa Barbara, California. Prepare analysis of missile exchanges.

During this period, completed three-year General Electric program of extensive education in advanced engineering principles of higher mathematics, probability and analysis. Also completed courses in Kepner-Tregoe, Effective Presentation, Management Training Program, and various technical seminars.

EDUCATION

University of California at Berkeley, BSSE, 1960.

Advanced Course in Engineering - 3-year Curriculum, General Electric Company, 1963.

Stanford University, MSEE, 1966.

HONORS AND ASSOCIATIONS

- Tau Beta Pi Engineering Honorary Society
- Co-holder of U.S. Patent No. 3,565,760, "Nuclear Reactor Power Monitoring System," February 1971.
- Member: American Association for Advance of Science.
- Member: Nuclear Power Plant Standards Committee, Instrument Society of America.

PERSONAL DATA

Born: June 7, 1937

Married, three children

Residence: San Jose, California

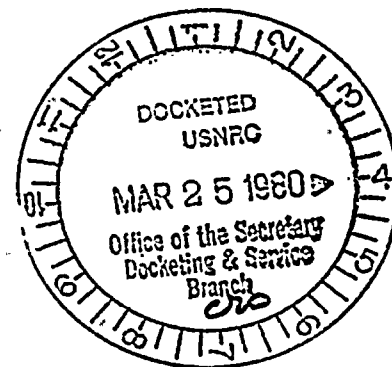
PUBLICATIONS AND TESTIMONY

1. G.C. Minor, S.E. Moore, "Control Rod Signal Multiplexing," IEEE Transactions on Nuclear Science, Vol. NS-19, February 1972.
2. G.C. Minor, W.G. Milam, "An Integrated Control Room System for a Nuclear Power Plant," NEDO-10658, presented at International Nuclear Industries Fair and Technical Meetings, October 1972, Basle, Switzerland.
3. The above article was also published in the German Technical Magazine, NT, March 1973.
4. Testimony of G.C. Minor, D.G. Bridenbaugh, and R.B. Hubbard before the Joint Committee on Atomic Energy, Hearings held February 18, 1976, and published by the Union of Concerned Scientists, Cambridge, Massachusetts.
5. Testimony of G.C. Minor, D.G. Bridenbaugh, and R.B. Hubbard before the California State Assembly Committee on Resources, Land Use, and Energy, March 8, 1976.
6. Testimony of G.C. Minor and R.B. Hubbard before the California State Senate Committee on Public Utilities, Transit, and Energy, March 23, 1976.
7. Testimony of G. C. Minor regarding the Grafenrheinfeld Nuclear Plant, March 16-17, 1977, Wurzburg, Germany.
8. Testimony of G.C. Minor before the Cluff Lake Board of Inquiry, Regina, Saskatchewan, Canada, September 21, 1977.
9. The Risks of Nuclear Power Reactors: A Review of the NRC Reactor Safety Study WASH-1400 (NUREG-75/014), H. Kendall, et al, edited by G.C. Minor and R.B. Hubbard for the Union of Concerned Scientists, August 1977.
10. Swedish Reactor Safety Study: Barsebäck Risk Assessment, MHB Technical Associates, January 1978. (Published by Swedish Department of Industry as Document SdI 1978:1)
11. Testimony by G.C. Minor before the Wisconsin Public Service Commission, February 13, 1978, Loss of Coolant Accidents: Their Probability and Consequence.
12. Testimony by G.C. Minor before the California Legislature Assembly Committee on Resources, Land Use and Energy, AB 3108, April 26, 1978, Sacramento, California.
13. Presentation by G.C. Minor before the Federal Ministry for Research and Technology (BMFT), Meeting on Reactor Safety Research, Man/Machine Interface in Nuclear Reactors, August 31 and September 1, 1978, Bonn, Germany.

PUBLICATIONS AND TESTIMONY

14. Testimony by G.C. Minor, D.G. Bridenbaugh, and R.B. Hubbard before the Atomic Safety and Licensing Board, September 25, 1978, In the Matter of the Black Fox Nuclear Power Station Construction Permit Hearings, Tulsa, Oklahoma.
15. G.C. Minor, D.G. Bridenbaugh, and R.B. Hubbard, Improving the Safety of LWR Power Plants, prepared for Sandia Laboratories by MHB Technical Associates, September 27, 1979.

BIOGRAPHICAL DATA



NAME: Robert Neil Anderson

ADDRESS: Work: Department of Materials Engineering
San Jose State University
San Jose, California 95192
(408/277-3751 or 277-2446)

Home: 3084 Stelling Drive
Palo Alto, California 94303
(415/494-7824)

PERSONAL INFORMATION:

Date of Birth: November 8, 1933
Place of Birth: San Jose
Marital Status: Married; two children

EDUCATION

B.S., Chemistry, University of San Francisco, 1956
B.S., Chemical Engineering, University of California - Berkeley 1958
M.S., Chemical Engineering, University of California - Berkeley 1959
Ph.D., Metallurgy, Stanford University, 1969
Post Doctoral Study in Metallurgy - Stanford University, 1970-1973

PROFESSIONAL EXPERIENCE:

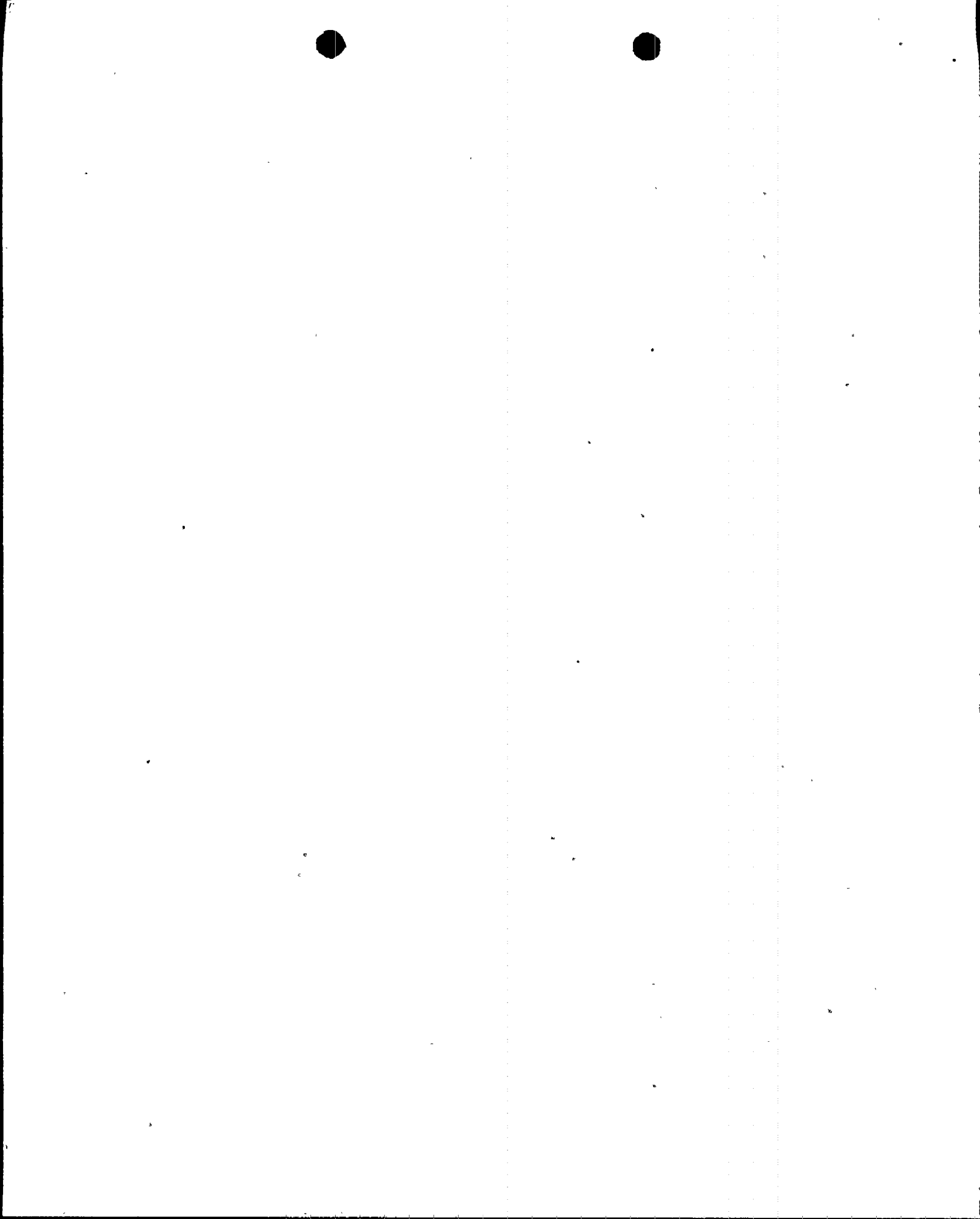
Academic:

San Jose State University, Professor 1978 - Current
San Jose State University, Associate Professor, 1974-78
Stanford University, Associate Professor, 1973-74
Stanford University, Research Metallurgist, 1972-73
Stanford University, Post Doctoral Research Associate, 1970-72
University of California, Berkeley, Research Assistant, 1958-59
University of San Francisco, Chemist, 1955-56

Industrial:

U.S. Naval Radiological Defense Laboratory, Operations Research
Analyst, 1966-69
U.S. Naval Radiological Defense Laboratory, Research Engineer, 1959-66
Arabian American Oil Company, Chemist, 1954-55

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PROFESSIONAL EXPERIENCE (continued)

Consulting:

California Public Utilities Commission, 1979
Standard Oil Company of Indiana, 1978 - present
Lawrence Livermore Laboratory, 1978 - present
Radiological Science Inc., 1977 - present
California State Energy, Resources and Development Commission, 1977-79
Executive Office of the President of the United States Council on
Environmental Quality and Office of Science and Technology Policy,
1978
United States Congress, Office of Technology Assessment, 1979
Scientific Service Incorporated, 1977-78
MHB Associates, 1977 - present
Parlee-Anderson Corp., 1979 - present
Accident Analysis, 1974 - present
McDermitt Mine, 1976 - present
International Business Machines, 1977-78
Memorex, 1979
Electrical Power Research Institute, 1974
SRI, 1975-77
Brookhaven National Laboratories, 1977-78
Attornies (list on request)

PROFESSIONAL ACTIVITIES:

American Nuclear Society, American Institute of Chemical Engineers,
American Chemical Society, American Institute of Metallurgical
Engineers (Past Chairman of Northern California Section),
American Society of Metals, National Society for Professional
Engineers, American Society for Engineering Education, California
Academy of Science, Alpha Chi Sigma, Tau Beta Pi and Sigma Xi.

CREDENTIALS AND LICENSES:

California Standard Teaching Credential.
Registered Metallurgical Engineer, California.
Registered Nuclear Engineer, California.
Fallout Shelter Analyst.
Private Pilots License.

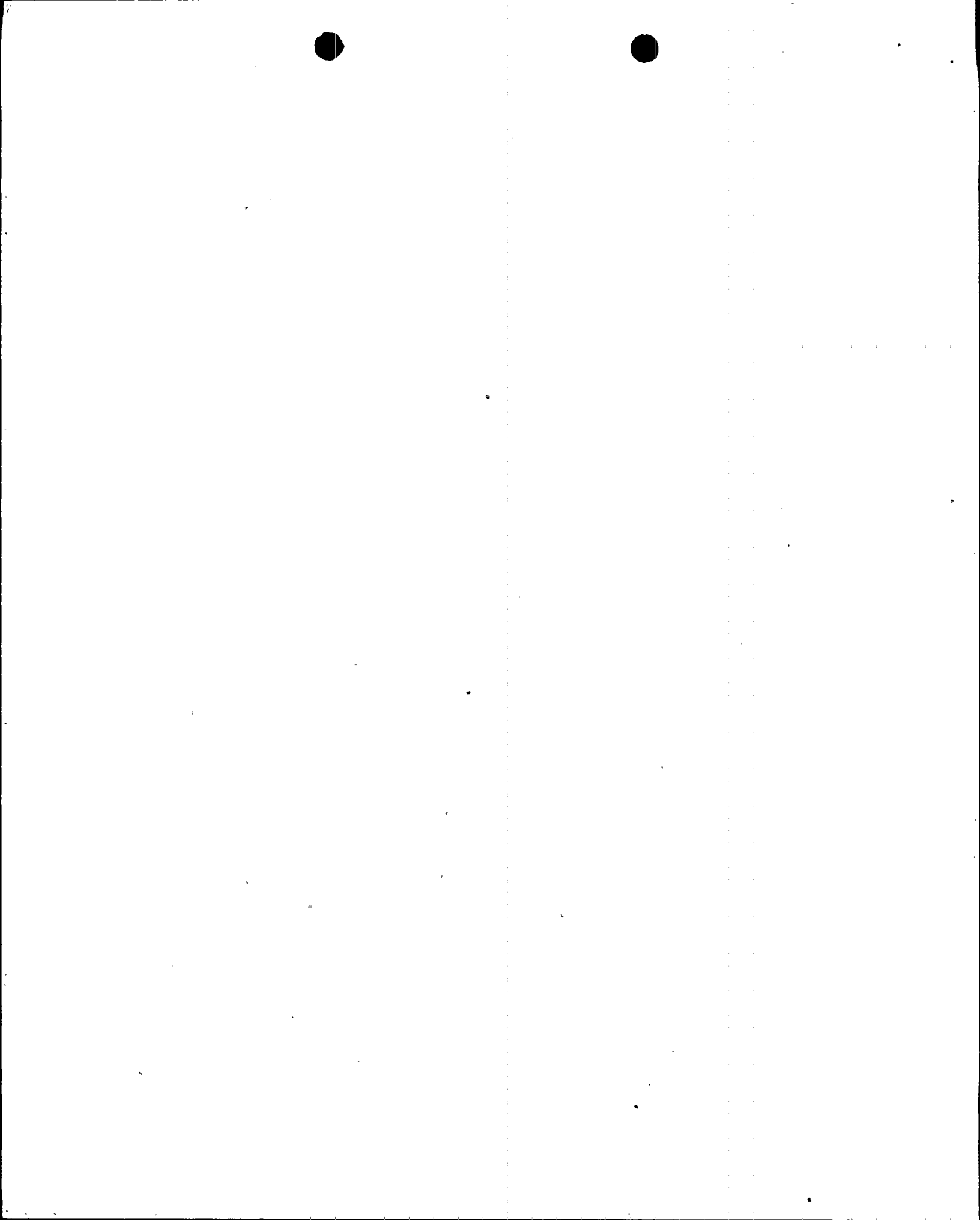
PUBLICATIONS:

Articles:

1. "The Activity of Titanium in Liquid Alloys," Accepted for publication and presentation in the Fourth International Conference on Titanium 19-22 May, 1980, International Conference Hall, Kyoto, Japan.
2. "Internationally Safeguarded Atomic Fuel Exchange Center for the Asia-Pacific Basin," Proceedings in 2nd Miami International Conference

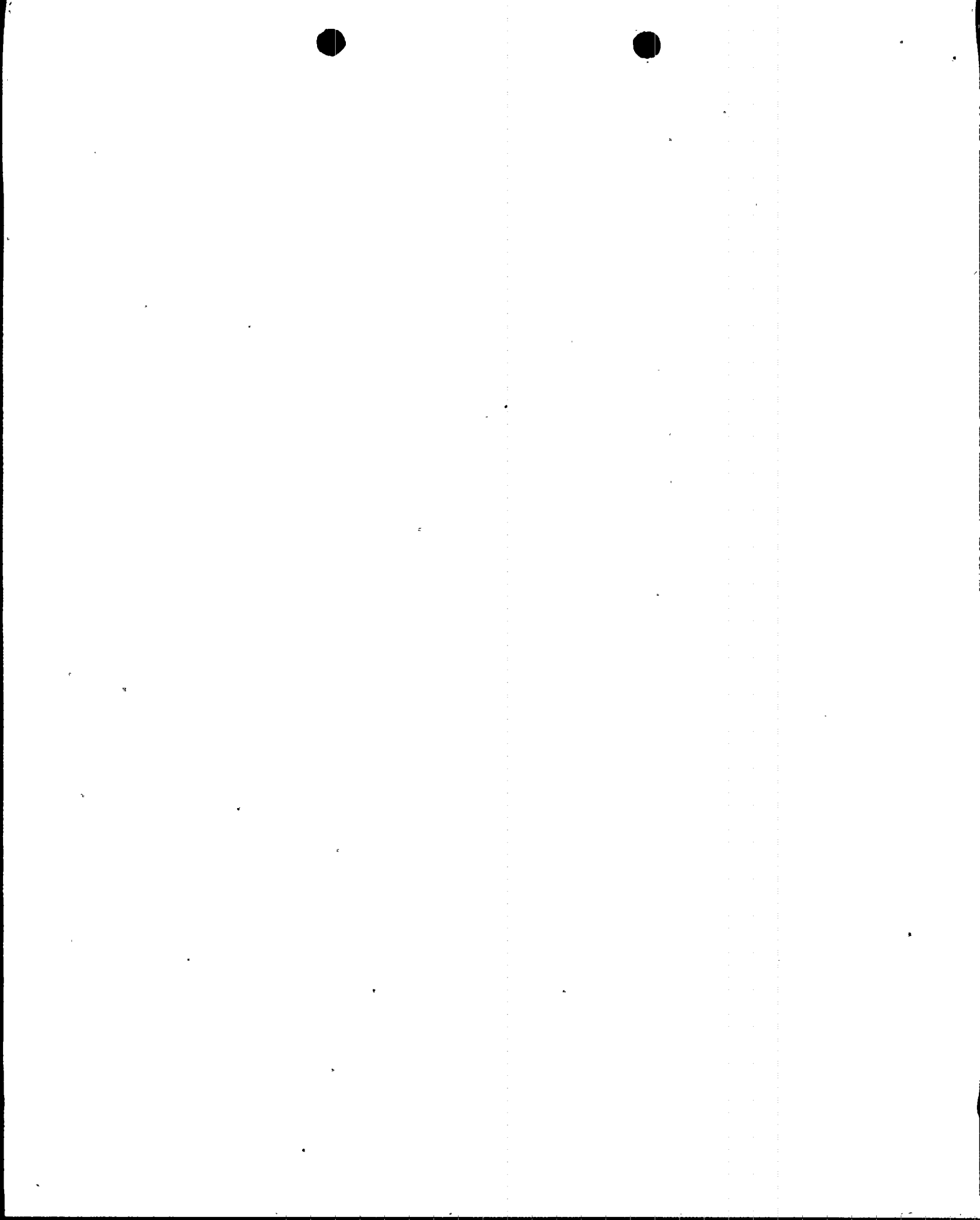
PUBLICATIONS (continued)

- on Alternative Energy Sources, 10-13 December 1979, Miami Beach, Florida.
3. "Site Selection for Spent Fuel Storage Facilities in the Pacific Basin," Nuclear Engineering International, October, 1979.
 4. "Survey of Nuclear Fuel Reprocessing Technologies," Conservation and Recycling, October, 1979.
 5. The Gold Dagger of Tutankhamun, Grafico Publishing Co., Santa Clara, Ca., 1979 (available through the San Francisco De Young Museum).
 6. "Analysis of the Infrastructure of the Front End of the Uranium Fuel Cycle," San Jose State University, Materials Engineering Department, technical report prepared for the California Public Utilities Commission (August 30, 1979).
 7. "The Kinetics of UO_2 Reduction by Carbon in Liquid Tin," Lawrence Livermore Lab Technical Report, July, 1979.
 8. "Analysis of the Front End of the Uranium Fuel Cycle Including Uranium Resource Availability through the Year 2010," San Jose State University, Materials Engineering Department, report prepared for the California Public Utilities Commission (July 1, 1979).
 9. "The Mineral Industries and the Challenges of the 80's," paper presented to the Pacific Southwest Minerals Conference, San Francisco March 25, 1979.
 10. "The Effect of Equipment Design, Operational Parameters and Surface Conditions on Coatings Produced by Flame Spraying," Journal of Thin Solid Films, accepted for publication 1979.
 11. "The Effect of Pressure on Interface Interactions Between Solids," Proceedings of the Conference on High-Level Radioactive Solid Waste Forms 19-21 December 1978, Denver, Colorado.
 12. "Let's Use MHD to Smelt Metals: Industrial Research/Development September 1978 (p.p. 131-34).
 13. "The Application of Magneto Hydro-Dynamics to Steelmaking," Industrial Research and Development, September, 1978.
 14. "Cleaning and Surface Preparation Technology and Other Factors on Coatings Produced by Flame Spraying," presented at the 4th International Symposium on Contamination Control, 10-13 September 1978, Washington, D.C.
 15. "Separation Technologies Reviewed," Nuclear Engineering International, August, 1978.



PUBLICATIONS (continued)

16. "Spent Fuel Disposal Costs," report to the Natural Resources Defense Council, July, 1978.
17. "Examinations of Radioactivity and Environmental Aspects of Antarctic Soils at Point Hueneme," report to the California Solid Waste Board, July, 1978.
18. Invited contributor to the Executive Office of the President of the United States document on Nuclear Power and Nuclear Waste Disposal for the President of the United States, June, 1978.
19. "Technical Review of the Deutch Draft Report on Nuclear Waste Management," for the Council on Environmental Quality, Executive Office of the President of the United States, May, 1978.
20. "A Technical Assessment of Nuclear Fuel Reprocessing and Radioactive Waste Disposal," report to State of California Energy Resources Conservation and Development Commission, March, 1978.
21. "A Program Assessment of Nuclear Fuel Reprocessing and Radioactive Waste Disposal," report to State of California Energy Resources Conservation and Development Commission, January, 1978.
22. "Methodology for Comparative Evaluation of Nuclear Fuel Reprocessing Techniques for Advanced Low Proliferation Risks," Proceedings of the First International Conference on Alternative Energy Sources, December, 1977, Coral Gables, Florida.
23. "Hydrometallurgical Separation of the Zinc-Base Fraction of Shredded Automobiles," Conservation and Recycling, V. 1, 1977.
24. "Survey of Reprocessing Technologies," Brookhaven National Laboratories Report 23082, June, 1977.
25. "The Physical & Chemical Characteristics of Titanium-Copper Alloys," Technical Report to Regalware, July, 1977.
26. "A Methodology for Evaluation of Alternative Technologies Applied to Nuclear Fuel Reprocessing," Brookhaven National Laboratory Report 50700, July, 1977.
27. "Comparative Evaluation of Nuclear Fuel Reprocessing Techniques for Advanced Fuel Cycle Concepts," report prepared for Brookhaven National Laboratory, September, 1976.
28. "Meet the ANF Reactor," Industrial Research May, 1976.
29. "A Technical and Economic Analysis of Processes for the Recovery of Metals in the Non-Ferrous Portion of Automobile Shredder Refuse," Proceedings of the Fifth Mineral Waste Utilization Symposium, April 13-14, 1976.



PUBLICATIONS (continued)

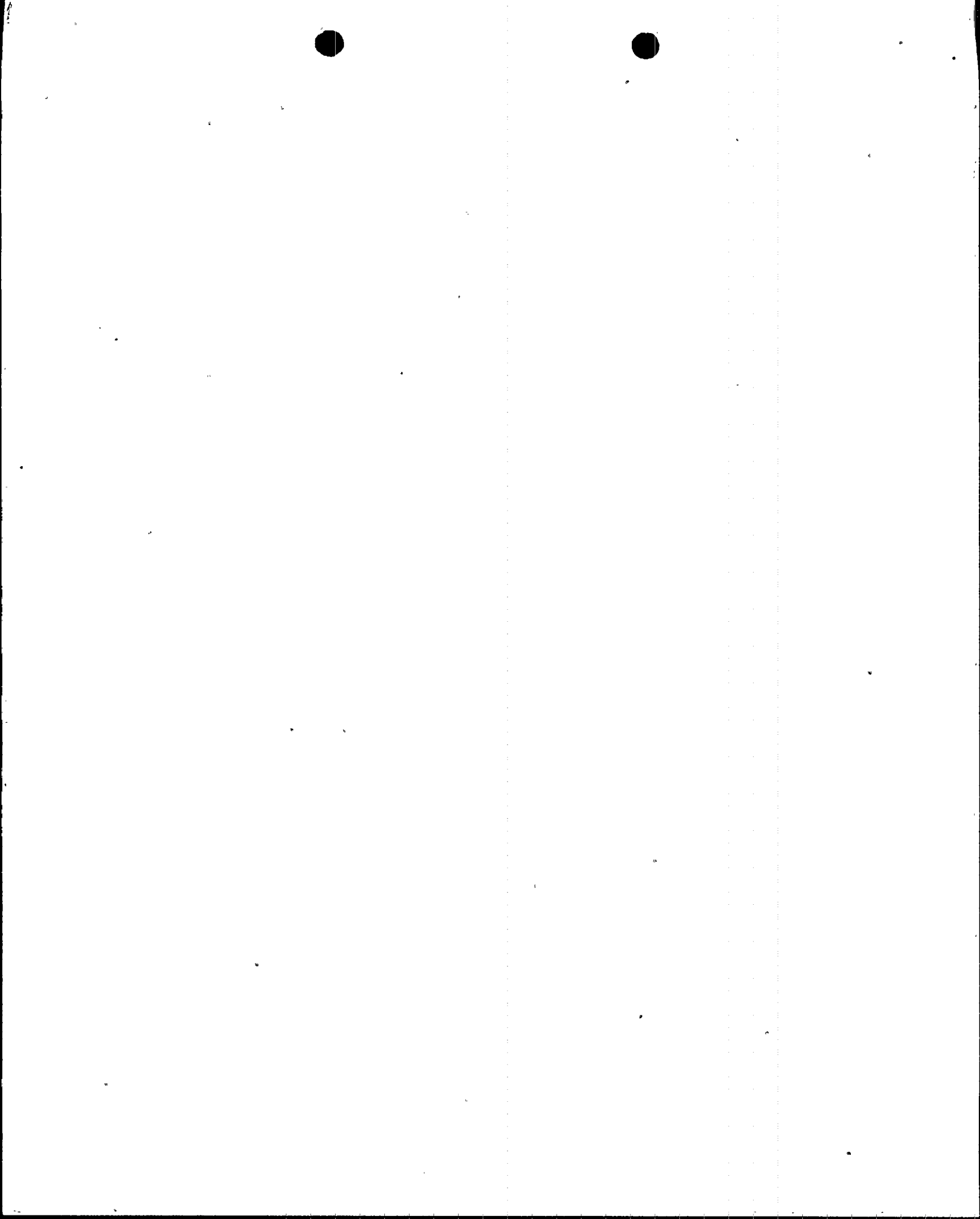
30. "Evaluation of Mineral Waste Utilization Processes and Strategies by Net Energy Analysis," Proceedings of the Fifth Mineral Waste Utilization Symposium, April 13-14, 1976.
31. "Available Supply of Gallium and Arsenic," prepared for NASA Langley Research Center, Va., April 1976.
32. "Carbothermic Reduction of Refractory Metals," J. of Vacuum Science & Technology, V. 13, No. 1, Jan/Feb 1976; "Nuclear Plant Can Make Gold," San Jose News, March 20, 1975; "What to Do With Atomic Waste," San Jose News, 1975.
33. "Thermodynamics of Nitride Formation in Liquid U-Gd-Sn Alloys," Journal of High Temperature Science, V. 7, 1975.
34. "Study of Interdiffusion in Electroplated Si-Ni on Au," Solid State Technology, November 1974.
35. "Nitrogen Nitride Equilibria in Molten Y-Sn Alloys," Journal of High Temperature Science, V. 6, 1974.
36. "The Kinetics of Uranium Nitride Formation in U-Sn Alloys," Journal of High Temperature Science, V. 6, 1974.
37. "Thermodynamics of Nitride Formation in Liquid U-Gd-Sn Alloys," Journal of High Temperature Science, Abstract in Journal of Metal, January, 1974.
38. "Nitrogen-Nitride Equilibria in Molten Y-Sn Alloys," Submitted to the Journal of High Temperature Science, (with A-FUWA and N.A.D. Parlee).
39. "The Kinetics of Uranium Nitride Formation on liquid U-Sn Alloys," submitted to Metallurgical Transactions (with T. Schnicks and N.A.D. Parlee) (Abstract in Journal of Metals, January, 1974).
40. Application of Solution Thermodynamics in High Temperature Metallurgical Processes, Proc. of 67th Meeting of the American Institute of Chemical Engineers, Dec. 1-15, 1974.
41. "Nitrogen-Nitride Equilibria in Molten Pr-Sn Alloys," Journal of High Temperature Science, V. 5, 1973.
42. "Nitrogen-Nitride Equilibria in Molten Gd-Sn Alloys," Journal of High Temperature Science, V. 5, 1973.
43. "Nitrogen-Nitride Equilibria in Molten Gd-Sn Alloys," Journal of High Temperature Science, V. 5, 1973.
44. "Continuous Removal of Fission Products in a Nitride Fueled Reactor," Nuclear Technology, V. 13, March 1972 (297-300).

PUBLICATIONS (continued)

45. "Application of Nitride-Forming Reactions to Reprocessing of Spent Nuclear Fuels," Nuclear Technology, V. 13, January, 1972.
46. "Reassessment of the Copper-Boron Phase Diagram," Journal of the Less Common Metals, V. 25, December 1971 (427-430).
47. "Nitrogen-Nitride Reactions in Molten U-Sn Alloys," TMS-AIME Metallurgical Transactions, V. 2, June, 1971
48. "Standard Free Energy of Nitride Formation From the Elements, A Estimation Technique," Journal of High Temperature Science, V. 2, 1970.
49. "Ultrasonic Decontamination of Military Weapons," NRA Riflemen, November, 1963.
50. "The Contamination-Decontamination of Fission Products in Sea Water," Nuclear Detonations and Marine Radioactivity Symposium, Kjeller, Norway, 1963.
51. "Two Phase Heat Transfer," Industrial and Engineering Chemistry, V. 51, 1959.

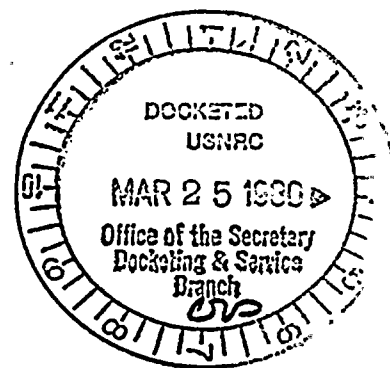
PATENTS ISSUED IN THE FIELD OF MATERIALS SCIENCE:

U.S. Patents	3,794,482	Feb. 26, 1974
	3,843,765	Oct. 22, 1974
	3,843,766	Oct. 22, 1974
Canadian Patents	931,672	Aug. 7, 1973
	931,673	Aug. 7, 1973
	950,683	July 9, 1974
Great Britain	1,342,991	Jan. 18, 1971
	1,344,950	Jan. 18, 1971
	1,323,474	Nov. 13, 1970
	1,323,475	Nov. 13, 1970
Mexico	119,105	Jan. 30, 1971
New Zealand	163,527	Jan. 15, 1971
South Africa	71/0273	Jan. 18, 1971
Sweden	1166/71	Feb. 1, 1971
W. Germany	2,103,255	Jan. 25, 1971
U.S. Patent Applications	905,745	filed May 15, 1978
	038,382	filed May 14, 1979



RESUME

Dale G. Bridenbaugh
1723 Hamilton Avenue, Suite K
San Jose, CA 95125
(408)266-2716



EXPERIENCE:

1976 - Present

Partner, MHB Technical Associates, San Jose, California. Founder and partner of technical consulting firm. Specialists in energy consulting to governmental and other groups interested in evaluation of nuclear plant safety and licensing. Consultant in this capacity to State of California, Suffolk County, New York, New York Attorney General, Norwegian Nuclear Power Committee, Public Advocates Office, New Jersey, and various other organizations and environmental groups. Performed extensive safety analysis for Swedish Energy Commission and contributed to Union of Concerned Scientists' Review of WASH-1400; consultant to U.S. NRC - LWR Safety Improvement Program, and performed Cost Analysis of Spent Fuel Disposal for NRDC.

1976 - (February - August)

Consultant, Project Survival, Palo Alto, California. Volunteer work on Nuclear Safeguards Initiative campaigns in California, Oregon, Washington, Arizona, and Colorado. Numerous presentations on nuclear power and alternative energy options to civic, government, and college groups. Also resource person for public service presentations on radio and television.

1973 - 1976

Manager, Performance Evaluation and Improvement, General Electric Company - Nuclear Energy Division, San Jose, California. Managed seventeen technical and seven clerical personnel with responsibility for establishment and management of systems to monitor and measure Boiling Water Reactor equipment and system operational performance. Integrated General Electric resources in customer plant modifications, coordinated correction of causes of forced outages and of efforts to improve reliability and performance of BWR systems.

Responsible for development of Division Master Performance Improvement Plan as well as for numerous Staff special assignments on long-range studies. Was on special assignment for the management of two different ad hoc projects formed to resolve unique technical problems.

1972 - 1973

Manager, Product Service, General Electric Company - Nuclear Energy Division, San Jose, California. Managed group of twenty-one technical and four clerical personnel. Prime responsibility was to direct interface and liaison personnel involved in corrective actions required under contract warranties. Also in charge of refueling and service planning, performance analysis, and service communication functions supporting all completed commercial nuclear power reactors supplied by General Electric both domestic and overseas (Spain, Germany, Italy, Japan, India, and Switzerland).

1968 - 1972

Manager, Product Service, General Electric Company - Nuclear Energy Division, San Jose, California.

Managed sixteen technical and six clerical personnel with the responsibility for all customer contact, planning and execution of work required after the customer acceptance of Department - supplied plants and/or equipment. This included quotation, sale and delivery of spare and renewal parts. Sales volume of parts increased from \$1,000,000 in 1968 to over \$3,000,000 in 1972.

1966 - 1968

Manager, Complaint and Warranty Service, General Electric Company - Nuclear Energy Division, San Jose, California.

Managed group of six persons with the responsibility for customer contacts, planning and execution of work required after customer acceptance of Department - supplied plants and/or equipment -- both domestic and overseas.

1963 - 1966

Field Engineering Supervisor, General Electric Company, Installation and Service Engineering Department, Los Angeles, California.

Supervised approximately eight field representatives with responsibility for General Electric steam and gas turbine installation and maintenance work in Southern California, Arizona, and Southern Nevada. During this period was responsible for the installation of eight different central station steam turbine generator units, plus much maintenance activity. Work included customer contact, preparation of quotations, and contract negotiations.

1956 - 1963

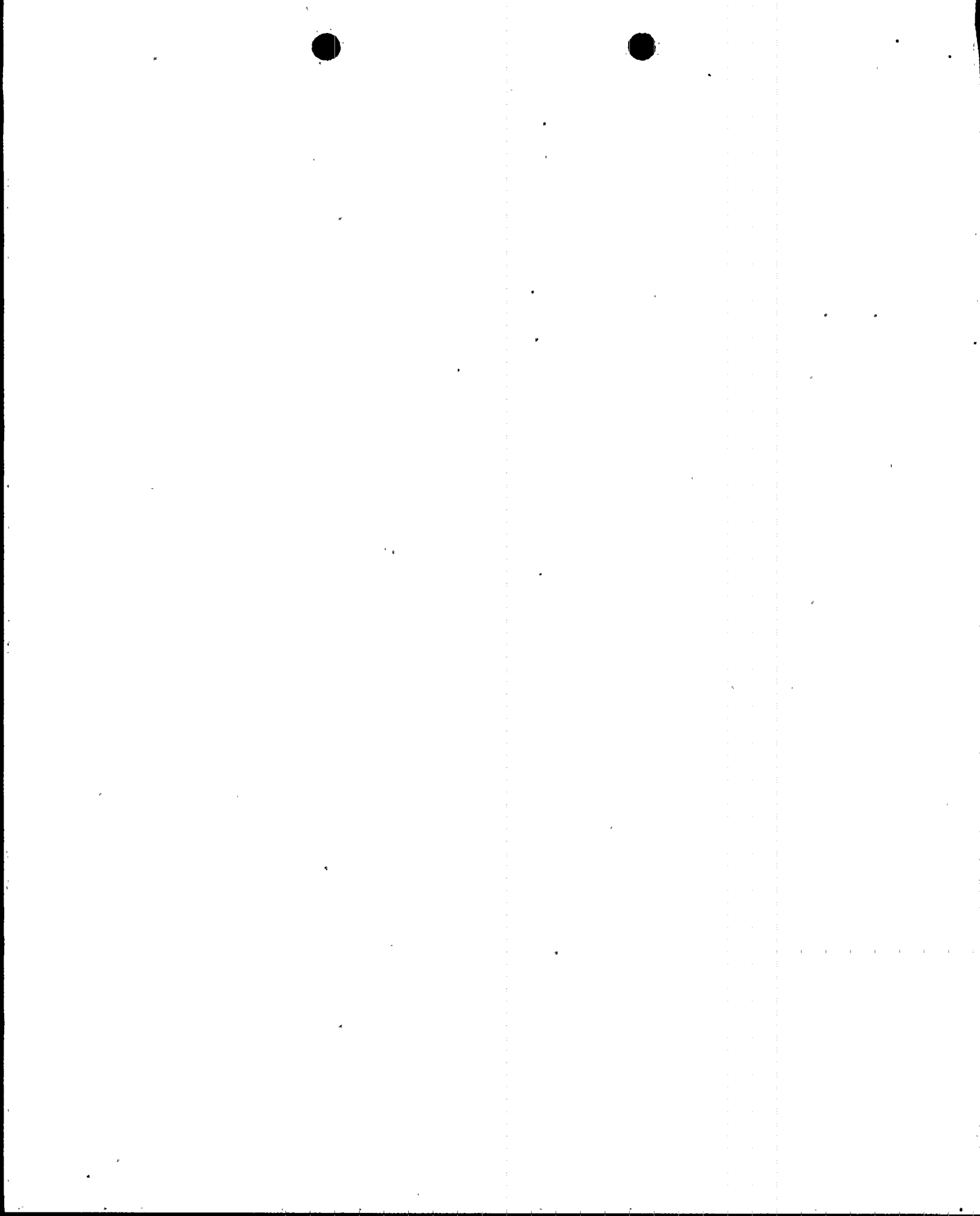
Field Engineer, General Electric Company, Installation and Service Engineering Department, Chicago, Illinois.

Supervised installation and maintenance of steam turbines of all sizes. Supervised crews of from ten to more than one hundred men, depending on the job. Work primarily with large utilities but had significant work with steel, petroleum and other process industries. Had four years of experience at construction, startup, trouble-shooting and refueling of the first large-scale commercial nuclear power unit.

1955 - 1956

Engineering Training Program, General Electric Company, Erie, Pennsylvania, and Schenectady, New York.

Training assignments in plant facilities design and in steam turbine testing at two General Electric Factory locations.



1953 - 1955

United States Army - Ordnance School, Aberdeen, Maryland

Instructor - Heavy Artillery Repair. Taught classroom and shop disassembly of artillery pieces.

1953

Engineering Training Program, General Electric Company, Evendale, Ohio; training assignment with Aircraft Gas Turbine Department.

EDUCATION & AFFILIATIONS

BSME - 1953 South Dakota School of Mines and Technology, Rapid City, South Dakota, Upper $\frac{1}{2}$ of class.

Professional Nuclear Engineer - California. Certificate No. 0973.

Member - American Nuclear Society.

Various Company Training Courses during career including Professional Business Management, Kepner Tregoe Decision Making, Effective Presentation, and numerous technical seminars.

HONORS & AWARDS

Sigma Tau - Honorary Engineering Fraternity.

General Managers Award, General Electric Company.

PERSONAL DATA

Born November 20, 1931, Miller, South Dakota

Married, three children.

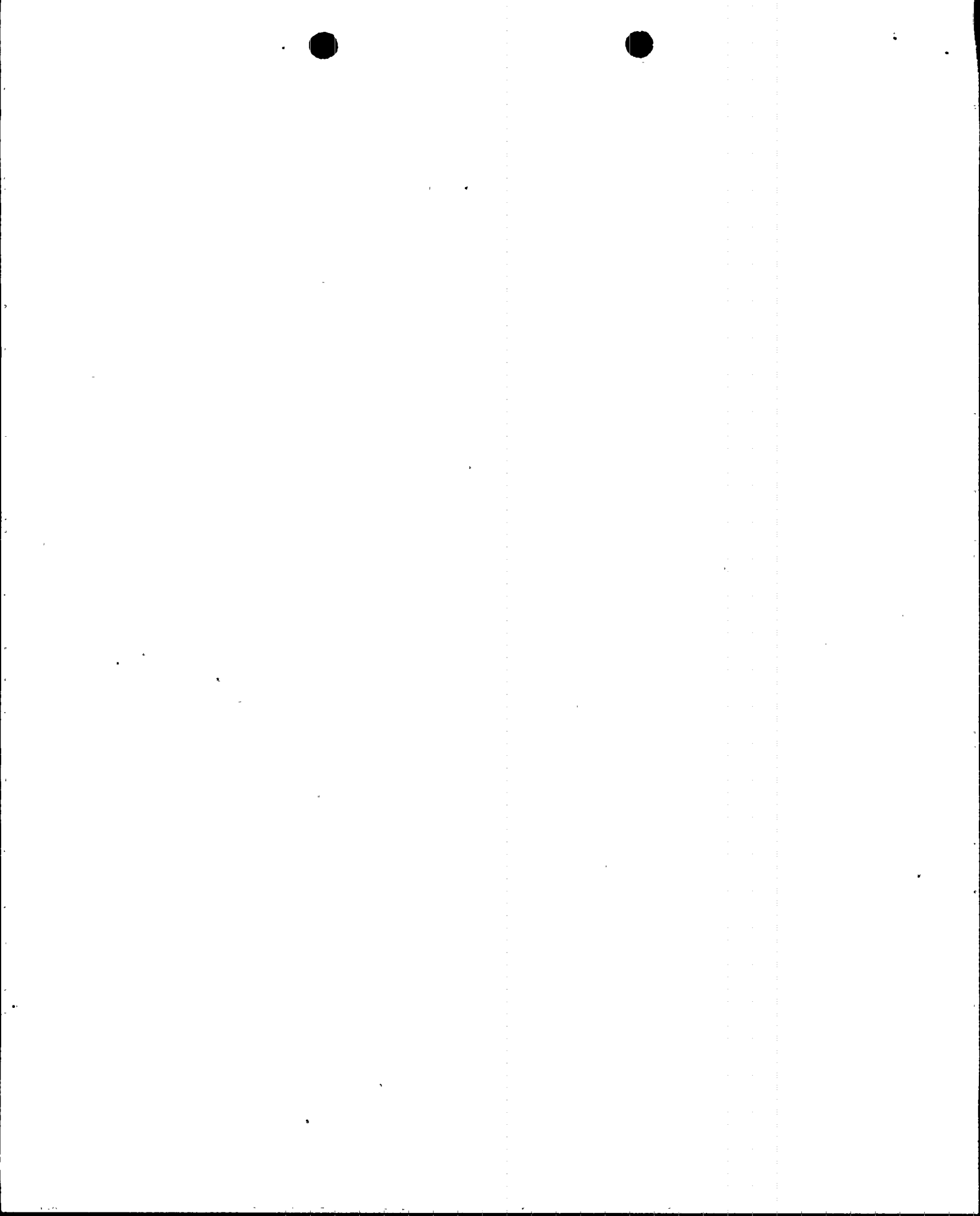
6'2", 190 lbs., health - excellent.

Honorable discharge from United States Army.

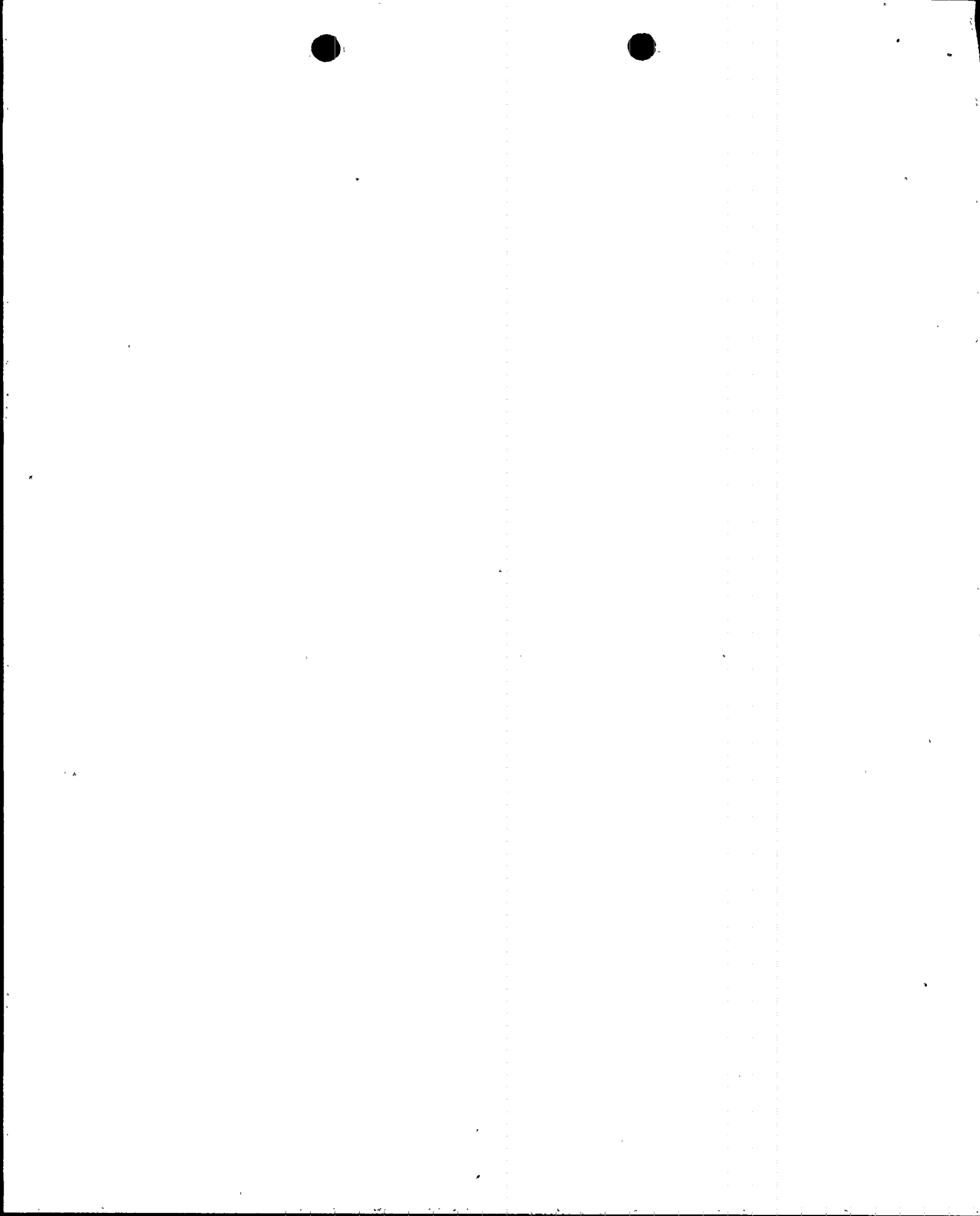
Hobbies: skiing, hiking, work with Cub and Boy Scout groups.

PUBLICATIONS & TESTIMONY

1. Operating and Maintenance Experience, presented at Twelfth Annual Seminar for Electric Utility Executives, Pebble Beach, California, October 1972, published in General Electric NEDC-10697, December 1972.
2. Maintenance and In-Service Inspection, presented at IAEA Symposium on Experience From Operating and Fueling of Nuclear Power Plants, Bridenbaugh, Lloyd, & Turner, Vienna, Austria, October 1973.
3. Operating and Maintenance Experience, presented at Thirteenth Annual Seminar for Electric Utility Executives, Pebble Beach, California, November 1973, published in General Electric NED0-20222, January 1974.
4. Improving Plant Availability, presented at Thirteenth Annual Seminar for Electric Utility Executives, Pebble Beach, California, November 1973, published in General Electric NED0-20222, January, 1974.
5. Application of Plant Outage Experience to Improve Plant Performance, Bridenbaugh and Burdsall, American Power Conference, Chicago, Illinois, April 14, 1974.
6. Nuclear Valve Testing Cuts Cost, Time, Electrical World, October 15, 1974.
7. The Risks of Nuclear Power Reactors: A Review of the NRC Reactor Safety Study WASH-1400, Kendall, Hubbard, Minor, & Bridenbaugh, et al, for the Union of Concerned Scientists, August 1977.
8. Swedish Reactor Safety Study: Barsebäck Risk Assessment, MHB Technical Associates, January 1978. (Published by Swedish Department of Industry as Document DsI 1978;1)
9. Testimony of D. G. Bridenbaugh, R. B. Hubbard, G. C. Minor to the California State Assembly Committee on Resources, Land Use, and Energy, March 8, 1976.
10. Testimony of D. G. Bridenbaugh, R. B. Hubbard, and G. C. Minor before the United States Congress, Joint Committee on Atomic Energy, February 18, 1976, Washington, DC. (Published by the Union of Concerned Scientists, Cambridge, Massachusetts.)
11. Testimony by D. G. Bridenbaugh before the California Energy Commission, entitled, Initiation of Catastrophic Accidents at Diablo Canyon, Hearings on Emergency Planning, Avila Beach, California, November 4, 1976.

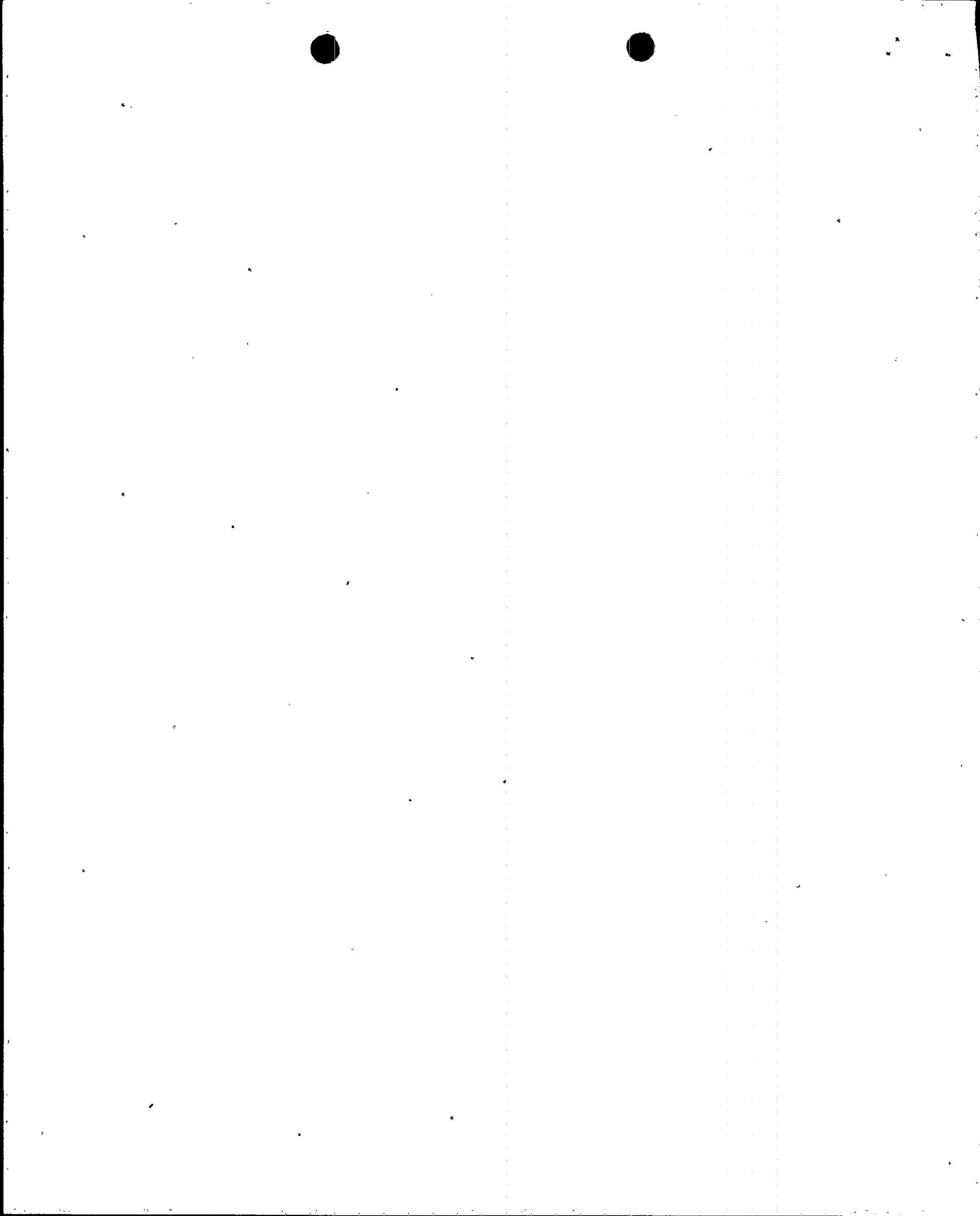


12. Testimony by D. G. Bridenbaugh before the U.S. Nuclear Regulatory Commission, subject, Diablo Canyon Nuclear Plant Performance, Atomic Safety and Licensing Board Hearings, December 1976.
13. Testimony by D. G. Bridenbaugh before the California Energy Commission, subject, Interim Spent Fuel Storage Considerations, March 10, 1977.
14. Testimony by D. G. Bridenbaugh before New York State Public Service Commission Siting Board Hearings concerning the Jamesport Nuclear Power Station, subject: Effect of Technical and Safety Deficiencies on Nuclear Plant Cost and Reliability, April 1977.
15. Testimony by D. G. Bridenbaugh before the California State Energy Commission, subject, Decommissioning of Pressurized Water Reactors, Sundesert Nuclear Plant Hearings, June 9, 1977.
16. Testimony by D. G. Bridenbaugh before the California State Energy Commission, subject, Economic Relationships of Decommissioning, Sundesert Nuclear Plant, for the Natural Resources Defense Council, July 15, 1977.
17. Testimony by D. G. Bridenbaugh before the Vermont State Board of Health, subject, Operation of Vermont Yankee Nuclear Plant and Its Impact on Public Health and Safety, October 6, 1977.
18. Testimony by D. G. Bridenbaugh before the U.S. Nuclear Regulatory Commission, Atomic Safety and Licensing Board, subject, Deficiencies in Safety Evaluation of Non-Seismic Issues, Lack of a Definitive Finding of Safety, Diablo Canyon Nuclear Units, October 18, 1977, Avila Beach, California.
19. Testimony by D. G. Bridenbaugh before the Norwegian Commission on Nuclear Power, subject, Reactor Safety/Risk, October 26, 1977.
20. Testimony by D. G. Bridenbaugh before the Louisiana State Legislature Committee on Natural Resources, subject, Nuclear Power Plant Deficiencies Impacting on Safety & Reliability, Baton Rouge, Louisiana, February 13, 1978.
21. Spent Fuel Disposal Costs, report prepared by D.G. Bridenbaugh for the Natural Resources Defense Council (NRDC), August 31, 1978.
22. Testimony by D.G. Bridenbaugh, G.C. Minor, and R.B. Hubbard before the Atomic Safety and Licensing Board, in the matter of the Black Fox Nuclear Power Station Construction Permit Hearings, September 25, 1978, Tulsa, Oklahoma.



PUBLICATIONS AND TESTIMONY.

- 23.. Testimony of D.G. Bridenbaugh and R.B. Hubbard before the Louisiana Public Service Commission, Nuclear Plant and Power Generation Costs, November 19, 1978, Baton Rouge, Louisiana.
24. Testimony by D.G. Bridenbaugh before the City Council and Electric Utility Commission of Austin, Texas, Design, Construction, and Operating Experience of Nuclear Generating Facilities, December 5, 1978, Austin, Texas



UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY & LICENSING BOARD

In the Matter of	)	Docket Nos. 50-250-SP
	)	50-251-SP
FLORIDA POWER & LIGHT COMPANY	)	(Proposed Amendments to
	)	Facility Operating License
(Turkey Point Nuclear Generating	)	to Permit Steam Generator
Units Nos. 3 and 4)	)	Repairs)

CERTIFICATE OF SERVICE

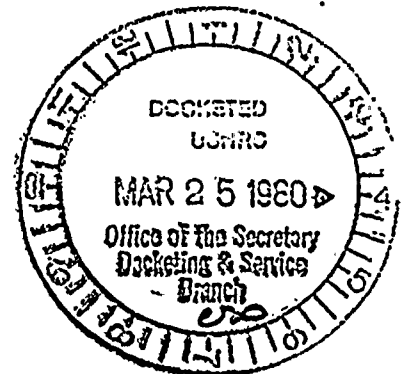
I HEREBY CERTIFY that a true copy of the foregoing Motion to Amend Contentions was mailed this 11th day of March, 1980, to the following individuals:

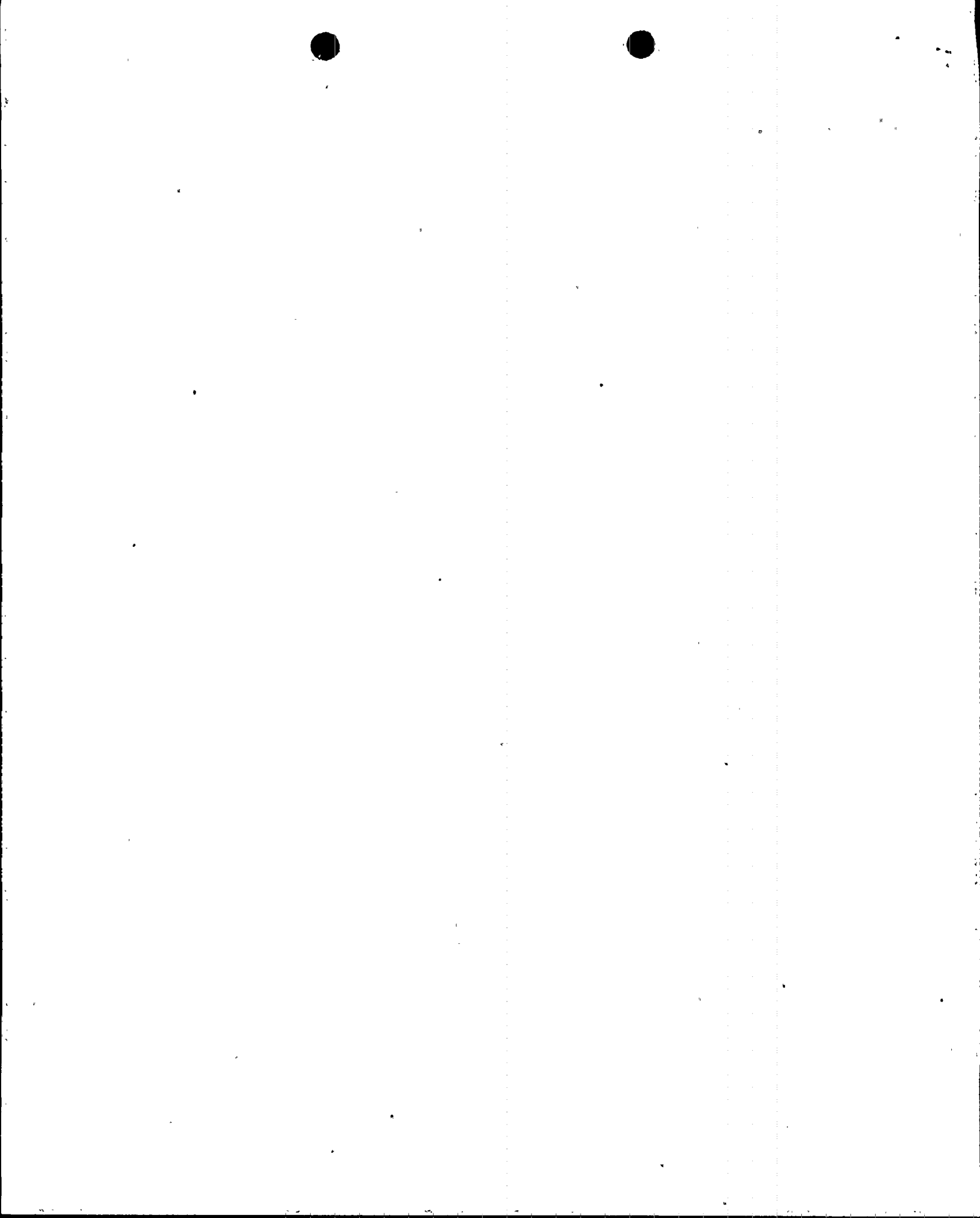
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Chairman
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U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dr. Oscar Paris
Atomic Safety and Licensing Board Panel
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dr. Emmeth A. Luebke
Atomic Safety and Licensing Board Panel
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555





Atomic Safety and Licensing Board Panel
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Atomic Safety and Licensing Appeal Board
Panel
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

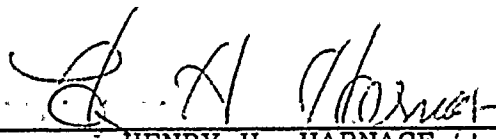
Mr. Mark P. Oncavage
12200 S. W. 110 Avenue
Miami, Florida 33176

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Washington, D. C. 20555

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Fort Lauderdale, Florida 33314

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Lowenstein, Newman, Reis, Axelrad & Toll
1025 Connecticut Avenue, N. W.
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HENRY H. HARNAGE

