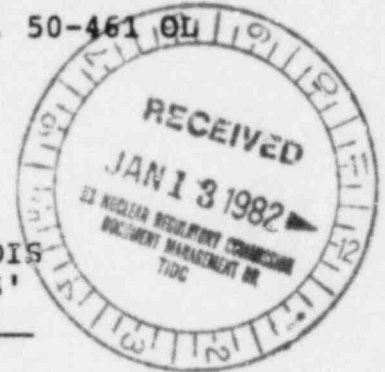


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USNRC

UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION -8 11:38

IN THE MATTER OF )  
ILLINOIS POWER COMPANY, )  
SOYLAND POWER COOPERATIVE, INC. )  
and WESTERN ILLINOIS POWER )  
COOPERATIVE, INC. )  
)  
)  
(Operating License for Clinton )  
Power Station, Unit 1) )

Docket No. 50-461



SUPPLEMENTAL RESPONSE OF ILLINOIS  
POWER TO THE STATE OF ILLINOIS'  
FIRST SET OF INTERROGATORIES

Illinois Power Company ("Illinois Power" or "the Company"), pursuant to the Memorandum and Order of the Atomic Safety and Licensing Board of December 16, 1981, hereby supplements its response to the State of Illinois' ("the State") First Set of Interrogatories as follows:

- [3. Identify all persons IP has employed in Quality Assurance (QA) and Quality Control (QC) positions at the CPS within the last five years, and for each person state:
  - (a) the date when employment began;
  - (b) the date, if applicable, when employment ended;
  - (c) his or her qualifications]

ANSWER: The information requested with respect to former quality control employees of Baldwin Associates was provided in response to Interrogatory No. 5 of the State's Second Set of Interrogatories to Applicants. Similar information was provided for current Baldwin Associates quality control

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employees responsible for mechanical inspections in response to Interrogatory No. 9 of the State's Second Set of Interrogatories to Applicants. The information requested with respect to other current Baldwin Associates quality control employees is shown in the attached Exhibit A.

[3. (d) the reason(s), if applicable and known to IP, for termination of employment.]

ANSWER:

Baldwin Associates Quality Control Employees

<u>Reason for Termination</u>	<u>Number of Employees</u>
Resigned-to accept new position	70
Resigned-to return to school	1
Resigned-did not like working conditions	1
Discharged-excessive absenteeism	4
Discharged-low productivity	2
Discharged-insubordination	3
Transferred-to another BA department	15

Illinois Power Quality Assurance Employees

<u>Reason for Termination</u>	<u>Number of Employees</u>
Resigned-to accept new position	9
Resigned-husband transferred	1
Transferred-to another IPC Department	1

[30. State each anticipated transient without scram (ATWS) condition that IP has considered and will consider with respect to the operation of the CPS. For each ATWS condition so stated identify the following:]

ANSWER: The probability of occurrence of an ATWS event is so low that, under current NRC regulations, the effect of such an event on plant operations need not be considered in the design of CPS Unit 1. Illinois Power has not independently analyzed the effect of each possible ATWS condition on the operation of the CPS. However, General Electric has analyzed the effect of a number of ATWS conditions on the operation of boiling water reactors under various circumstances. These conditions include:

- (1) Turbine/Generator Trip
- (2) Closure of All Main Steam Isolation Valves
- (3) Pressure Regulator Failure in Open Direction
- (4) Loss of Feedwater Flow
- (5) Loss of Auxiliary Power

[(a) the ASME class into which the condition falls;]

ANSWER: Each condition listed above falls within the "emergency conditions" limits as defined in the ASME Nuclear Power Plant Components Code, Section III.

[(b) all documents that describe the ATWS condition; and]

ANSWER: General Electric ATWS analyses are documented in the following reports:

- (1) L. A. Michelotti, "Analysis of Anticipated Transients Without Scram," NEDO-10349 (March 1971);

- (2) L. B. Claasen and E. C. Eckert, "Studies of BWR Designs for Mitigation of Anticipated Transients Without Scrams," NEDO-20626 (October 1974);
- (3) "Assessment of BWR Mitigation of ATWS, Volume II," NEDO-24222 (December 1979).

Various documents relating to these analyses are identified in Appendix I to NUREG-0460, pages 7-8.

[ (c) all persons who were and are responsible for, or who have had and currently have knowledge of, the ATWS condition considered.]

ANSWER: Many General Electric employees participated in the preparation of ATWS analyses. Those with current knowledge and responsibility include E. C. Eckert, L. S. Fleischer, and H. C. Pfeffernen.

[31. Describe all analyses or assessments that IP has performed and will perform with respect to the occurrence of an ATWS condition at the CPS. For each analysis or assessment:]

ANSWER: Illinois Power has not performed an independent analysis with respect to the occurrence of an ATWS condition at the CPS. General Electric has performed such an analysis with respect to boiling water reactors, documented in the following report:

W. P. Sullivan, B. Y. Fukushima, and L. H. Youngboard, "BWR Scram System Reliability Analysis," NEDE-21514 (December 1976).

[ (a) state the assumed rate of occurrence per reactor year;]

ANSWER: Less than  $10^{-6}$ /reactor-year.

[ (b) describe the results and conclusions; ]

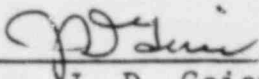
ANSWER: The results indicate that the reliability of the scram is sufficient with minor modifications to meet the NCR Staff safety goal of  $10^{-6}$ /reactor-year.

[ (c) identify all documents related to, referring to, or discussing the analysis or assessment; and

(d) identify all persons, including BWR owners' groups or other organizations, who were and are responsible for, or who have had knowledge and currently have knowledge of, the analysis or assessment. ]

ANSWER: Illinois Power does not have the information requested with respect to the General Electric analysis.

ILLINOIS POWER COMPANY

By:   
J. D. Geier  
Manager

Peter V. Fazio, Jr.  
Sheldon A. Zabel  
William Van Susteren  
Charles D. Fox IV  
SCHIFF HARDIN & WAITE  
7200 Sears Tower  
233 South Wacker Drive  
Chicago, Illinois 60606  
(312) 876-1000

Dated: January 6, 1982

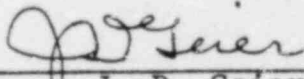
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STATE OF ILLINOIS     )  
                              )     SS  
COUNTY OF MACON     )

OFFICE OF SECRETARY  
DEPARTMENT OF REVENUE  
SPRINGFIELD

J. D. Geier, being duly sworn, deposes and says that he is Manager of Nuclear Station Engineering Department for Illinois Power Company, one of the Applicants in this proceeding; that he has read the foregoing Supplemental Response of Illinois Power to the State of Illinois' First Set of Interrogatories, and that the same are true and correct to the best of his knowledge, information, and belief.

  
\_\_\_\_\_  
J. D. Geier  
Manager

SUBSCRIBED and SWORN to  
before me this 6<sup>th</sup> day  
of January, 1982.

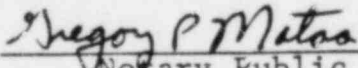
  
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Notary Public

EXHIBIT A



## EXHIBIT A

PRESENT EMPLOYEES OF BALDWIN ASSOCIATES'  
QUALITY CONTROL DEPARTMENT OTHER THAN THOSE RESPONSIBLE FOR MECHANICAL INSPECTION

NAME	ADDRESS	DUTIES/ RESPONSIBILITIES	QUALIFICATIONS	SUBSTANCE OF ANY COMPLAINTS
H. J. HARRIS	RR #4, Box 60 Champaign, IL 61820	Sr. Electrical Engineer	Certified III Hired 3/23/81	None Known
D. L. RICHTER	2329 Arrowhead Springfield, IL 62702	Electrical Engineer	Certified II Hired 12/1/80	None Known
L. C. RATLIFF	304 W. Walnut Springfield, IL 62629	Electrical Engineer	Certified II Hired 11/9/81	None Known
R. F. JOHNSON	P.O. Box 133 1607 E. Main St. Clinton, IL 61727	Inspection Engineer	Certified II Hired 4/20/81	None Known
P. E. TRENKLE	RR #1 Farmer City, IL 61842	Lead Man- Building & Diesel Generator Inspector	Certified II Hired 5/4/81	None Known
M. D. BOWERS	174 Ninth St., #3 Lincoln, IL 62656	Auxilliary Building & Diesel Generator Inspector	Certified I Hired 7/13/81	None Known
J. R. MAZUR	112 W. White St. Clinton, IL 61727	Auxilliary Building & Diesel Generator Inspector	Certified I Hired 8/10/81	None Known
R. L. GOLDMAN	1921 A. Melrose Dr. Champaign, IL 61820	Auxilliary Building & Diesel Generator Inspector	Certified I Hired 3/25/81 Term 7/31/81 Rehired 8/10/81	None Known
W. E. DIXON	88 Chiccker Ct. Champaign, IL 61820	Auxilliary Building & Diesel Generator Inspector	Certified I Hired 10/5/81	None Known
V. S. GALLUP	RR #1 Sherman, IL 62684	Auxilliary Building & Diesel Generator Inspector	Certified I Hired 3/24/81	None Known

NAME	ADDRESS	RESPONSIBILITIES	QUALIFICATIONS	SUBSTANCE OF ANY COMPLAINTS
B. T. MARCUM	530 North Street Weldon, IL 61882	Auxiliary Building & Diesel Generator Inspector	Certified I Hired 7/6/81	None Known
S. F. BUCK	RR #1, Box 23 McLean, IL 61754	Lead Man - Control Building Inspector	Certified II Hired 6/17/81	None Known
R. V. WHITEHEAD	501 N. Grant St. Clinton, IL 61727	Control Building Inspector	Certified II Hired 2/2/81	None Known
S. M. BODINE	2407-A Leeper Champaign, IL 61820	Control Building Inspector	Certified I Hired 5/11/81	None Known
D. R. KABUSS	Box 58 RR#1 Danvers, IL 61732	Control Building Inspector	Certified I Hired 9/9/81	None Known
R. H. STURGILL	P.O. Box 268 Clinton, IL 61727	Control Building Inspector	Certified I Hired 10/1/81	None Known
R. L. CAMPBELL	RR#2 - 30 Deerhaven Dr. Charterwood Farms Bloomington, IL 61701	Control Building Inspector	Certified I Hired 1/26/81	None Known
R. E. STOUT	306 S. Walnut St. Clinton, IL 61727	Lead Man. - Containment Fuel Building & Screen- house Inspector	Certified II Hired 1/26/81	None Known
T. W. MASSEY	P.O. Box 11 Weldon, IL 61882	Containment Fuel Building & Screen- house Inspector	Certified I Hired 1/26/81	None Known
R. C. LEWIS	221 W. Jefferson Mt. Pulaski, IL 62548	Containment Fuel Building & Screen- house Inspector	Certified I Hired 3/16/81	None Known

NAME	ADDRESS	DUTIES/ RESPONSIBILITIES	QUALIFICATIONS	SUBSTANCE OF ANY COMPLAINTS
J. A. MARCUM	Box 137 Weldon, IL 61882	Containment Fuel Building & Screen- house Inspector	Certified I Hired 5/4/81	None Known
T. C. QUAGLIANO	907 N. Westbrook Mahomet, IL 61853	Containment Fuel Building & Screen- house Inspector	Certified I Hired 1/5/81	None Known
R. L. FURKIN	40 Windsor Rd. Springfield, IL 62702	(Acting) Lead Man - Night Inspector	Certified II Hired 1/26/81	None Known
C. W. CLARK	13 7th Drive Decatur, IL 62521	Night Inspector	Certified I Hired 9/30/81	None Known
M. L. HARPER	Colonial Motel Farmer City, IL 61842	Night Inspector	Certified I Hired 8/17/81	None Known
R. R. SMITH	202 S. Hickory Pesotum, IL 61863	Night Inspector	Certified I Hired 5/20/81	None Known
M. Byers	RR #2 Box 212 Ridgeview Acres Clinton, IL 61727	Senior Vendor Surveillance Engineer	Certified III Hired 3/15/76 QC Hire 4/5/77	None Known
W. Sobelewski	209 E. Jefferson St. Clinton, IL 61727	Lead Vendor Surveillance Engineer	Certified II Hired 9/10/79	None Known
B. B. Hendricks	1307 W. Eureck Urbana IL	Vendor Surveillance Engineer	Certified II Hired 7/10/78	None Known
M. R. Murray	108 Ginger Creek Ct. P. O. Box 727 Bloomington, IL 61701	Vendor Surveillance Engineer	Certified II Hired 2/16/81	None Known
C. Price, Sr.	520 N. Maple Clinton, IL 61727	Vendor Surveillance Engineer	Certified II Hired 6/12/80	None Known

NAME	ADDRESS	DUTIES/ RESPONSIBILITIES	QUALIFICATIONS	SUBSTANCE OF ANY COMPLAINTS
E. M. Thomas	312 Riley Dr. Apt. #2 Bloomington, IL 61701	Vendor Surveillance Engineer	Certified II Hired 3/6/81	None Known
R. G. Willi	104 Camelot St. Bloomington, IL 61701	Vendor Surveillance Engineer	Certified II Hired 6/29/81	None Known
T. D. Flannery	Hill Crest Apt. #2 Box 438 RR. #2 Clinton, IL 61727	Vendor Surveillance Engineer	Certified II Hired 9/16/81	None Known
J. D. Sprague	308 S. Center Clinton, IL 61727	Materials Control Supervisor	Certified II Hired 1/8/78	None Known
G. F. Sulwer	483 N. 34th St. Decatur, IL 62521	Materials Control Inspector	Certified II Hired 12/10/80	None Known
S. A. Martin	303-9 Lake of the Woods Apts. Mahomet, IL 61853	Materials Control Inspector	Certified II Hired 5/20/81	None Known
D. A. Jiles	RR #1 Weldon, IL 61882	Materials Control Inspector	Certified I Hired 7/13/81	None Known
T. D. Matlock	RR. #1 Findlay, IL 62534	Materials Control Inspector	Certified I Hired 5/20/81	None Known
J. A. Sprague	RR. #1 Waynesville, IL 61778	Materials Control Inspector	Certified I Hired 6/22/81	None Known
T. C. Wilson	800 Jackson Monticello, IL 61856	Materials Control Inspector	Certified I Hired 11/16/81	None Known
R. W. Rasor	1213 E. South St. Clinton, IL 61727	Materials Control Inspector	Not Certified Trainee Hired 12/9/81	None Known

NAME	ADDRESS	DUTIES/ RESPONSIBILITIES	QUALIFICATIONS	SUBSTANCE OF ANY COMPLAINTS
D. Threat	RR.#2 Box 238A Bloomington, IL 61701	Sr. Civil/ Structural Engineer	Level III 45.2.6 Hired 4/4/77	None Known
R. Connelly	215 W. South St. Clinton, IL 61727	Civil/Structural Office & Field Engineer	Level II 45.2.6 Hired 8/20/79	None Known
G. Frank	204-14 Lake of the Woods Apt. Mahomet, IL 61853	Lead Civil/ Structural Engineer Inspector	Level II 45.2.6	None Known
T. Donovan	1103 W. Church Apt. #1 Champaign, IL 61820	Civil/Structural Inspector	Level I 45.2.6 Hired 3/25/81	None Known
K. Miller	210 E. Julia St. Clinton, IL 61727	Civil/Structural Inspector	Level I 45.2.6 Hired 2/23/81	None Known
M. Cunningham	RR.#1 Box 72 Weaver Road Decatur, IL 62525	Civil/Structural Inspector	Level I 45.2.6 Hired 6/22/81	None Known
J. Moberly	317 N. Madison St. Clinton, IL 61727	Civil/Structural Systems Turnover	Level II 45.2.6 Hired 6/22/77	None Known
M. Bunch	445 W. Roberts Mt. Zion, IL 62549	Civil/Structural Systems Turnover	Level II 45.2.6 Hired 7/31/80	None Known

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CERTIFICATE OF SERVICE JAN -8 AM 11:38

I hereby certify that the original of the foregoing document was served upon the following:

Philip L. Willman  
Assistant Attorney General  
Environmental Control Division  
188 West Randolph Street  
Suite 2315  
Chicago, Illinois 60610

that three conformed copies of the foregoing document were filed with the following:

Secretary of the Commission  
United States Nuclear Regulatory Commission  
Washington, D.C. 20555  
Attention: Docketing and Service Branch

and that one copy of the foregoing document was served upon each of the following:

Hugh K. Clark, Esq., Chairman  
P. O. Box 127A  
Kennedyville, Maryland 21645

Dr. George A. Ferguson  
School of Engineering  
Howard University  
2300 Sixth Street, N.W.  
Washington, D.C. 20059

Prairie Alliance  
P. O. Box 2424  
Station A  
Champaign, Illinois 61820


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

Executive Legal Director  
United States 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

in each case by deposit in the United States Mail, postage  
prepaid on January 6, 1982.

  
\_\_\_\_\_  
One of the Attorneys for  
Applicants

Peter V. Fazio, Jr.  
Sheldon A. Zabel  
William Van Susteren  
Charles D. Fox IV  
SCHIFF HARDIN & WAITE  
7200 Sears Tower  
233 South Wacker Drive  
Chicago, Illinois 60606  
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UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION -8 AM 1:36

IN THE MATTER OF )  
ILLINOIS POWER COMPANY, )  
SOYLAND POWER COOPERATIVE, INC. )  
and WESTERN ILLINOIS POWER )  
COOPERATIVE, INC. ) Docket No. 50-461 OL  
)  
(Operating License for Clinton )  
Power Station, Unit 1) )

NOTICE

To:

Hugh K. Clark, Esq., Chairman  
P. O. Box 127A  
Kennedyville, Maryland 21645

Dr. George A. Ferguson  
School of Engineering  
Howard University  
2300 Sixth Street, N.W.  
Washington, D.C. 20059

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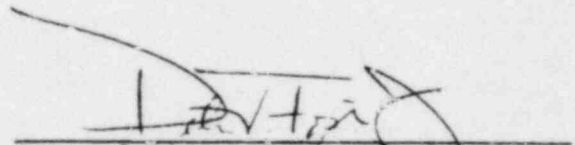
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U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555



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

PLEASE TAKE NOTICE that I have today served upon Philip L. Willman, Assistant Attorney General, Environmental Control Division, 188 West Randolph Street, Suite 2315, Chicago, Illinois 60610, and have filed with the Secretary of the United States Nuclear Regulatory Commission SUPPLEMENTAL RESPONSE OF ILLINOIS POWER TO THE STATE OF ILLINOIS' FIRST SET OF INTERROGATORIES in the above-captioned matter. A copy of this document is attached hereto and hereby served upon you.

  
\_\_\_\_\_  
One of the Attorneys for  
Applicants

Peter V. Fazio, Jr.  
Sheldon A. Zabel  
William Van Susteren  
Charles D. Fox IV  
SCHIFF HARDIN & WAITE  
7200 Sears Tower  
233 South Wacker Drive  
Chicago, Illinois 60606  
(312) 876-1000

Dated: January 6, 1982