



Commonwealth Edison

One First National Plaza, Chicago, Illinois

Address Reply to: Post Office Box 767

Chicago, Illinois 60690

May 24, 1985

Mr. James G. Keppler
Regional Administrator
U.S. Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, IL 60137

Subject: Zion Nuclear Power Station Unit 2
Environmental Qualification of Electrical
Equipment
I.E. Inspection Report No. 50-304/85-06

Reference: April 15, 1985 letter from G. G. Zech to
Cordell Reed.

Dear Mr. Keppler:

The referenced letter transmitted the report of the special team inspection conducted by Mr. G. T. Hubbard and other NRC representatives on January 14 through January 18, 1985. This inspection reviewed Commonwealth Edison Company's implementation of the requirements of 10 CFR 50.49 for the qualification of electrical equipment.

During subsequent discussions, Mr. A. S. Gautam of your office has requested additional material. Copies of internal correspondence concerning environment qualification training, maintenance and surveillance schedules, and containment temperature envelope are attached.

If you have any additional questions regarding this matter, please contact this office.

Very truly yours,

Peter LeBlond

P. C. LeBlond

Nuclear Licensing Administrator

lm

cc: NRC Resident Inspector - Zion

0167K

8507190298 850524
PDR ADOCK 05000304
Q PDR

MAY 28 1985

IE01

February 11, 1985

Messrs.: R. Querio
N. Kalivianakis
J. Gudac
G. Diederich
D. Scott
K. Graesser
W. Shewski

Subject: Training on Environmental Qualification
and Requiriements for Implementation of
10CFR50.49 Rule

The following personnel attended a one day seminar conducted on
February 6, 1985, at Braidwood Training Center.

<u>Name</u>	<u>Title</u>	<u>Organization</u>
D. Spencer	LaSalle Tech Staff	CECo
C. Nagel	QA Coordinator	CECo
A. Kullmann	QA	Zion
J.W. Rappeport	QA	Zion
G.F. Marcus	Director of QA	CECo QA
B.E. Harl	Staff Assistant	CECo QA
J.R. Williams	QA Insp.	Braidwood
D.A. Hoffer	QA Engineer	CECo QA
M.V. Della Betta	QA Engineer	CECo QA
E. Briette	QA Engineer	CECo QA
G. Nelson	Braidwood Tech Staff	Braidwood
J. Kollock	QA Engineer	CECo QA
G. Frankovich	Tech Staff	Dresden
J. Jursifnas	QA Insp.	Zion
R. Vine	QA Engineer	LaSalle
A. Scott	QA Engineer	Quad Cities
D. Winchester	QA Insp.	Dresden
D. Sible	QA Engineer	Byron
J. LaBonte	QA Insp.	Byron
L. Williams	QA Supv.	Dresden
R. Kyrouac	QA Supv.	Braidwood Operating
R. Branson	Master Electrician	Byron
M. Bailey	T.S.	Zion
M. Musser	QA Engineer	LaSalle
G. Ponce	QC	Zion
G. Korwin	QA	Zion

The seminar covered the details of CECo Environmental Qualification Program, specifically:

1. History of Environmental Qualification
2. 10CFR50.49 rule requirements
3. Elements of CECo E.Q. Program
4. Departmental responsibilities to implement the program (Station, SNED, QA, etc.)
5. Lessons learned from Zion E.Q. Audit

The course was presented by Messrs. Steve Zunjic of Station Nuclear Department and C. Crane of Westec Services Inc.

Please retain this document in your files as evidence of training in Environmental Qualification area.

For further questions regarding this or future training please contact S. Zunjic at ext. 2856.

SJ

SZ/bmb/2229a
cc: All attendees

J. S. Abel

J.S. Abel

EQ Training Session Braidwood Training Center

2-6-85

Name	Title	Organization
C. J. Crane	Consultant	Westec
S. ZWARTZ	CECO (SNEA)	CECO ext 2856
D. SPENCER	LaSalle Tech Staff	CECO x-649
C. NAGEL	CEC QA COORDINATOR	CECO X8320
A. KULLMANN	CECO QA ZION	CECO X397
J.W. RAPPAPORT	CECO QA ZION	CECO - Q.A.
G.F. MARCUS	DIRECTOR OF Q.A	CECO QA
B.E. HARL	STAFF ASSISTANT	CECO QA Braidwood
J. R. WILLIAMS	CECO Q.A. Insp.	CECO QA
D. A. HOFFER	CECO Q.A. Eng.	CECO QA
M. V. DELLA BETTA	CECO QA ENG	CECO Q.A.
E. BRIETTE	CECO QA ENG.	BRAIDWOOD
G. Nelson	Braidwood Tech Staff (ASST SUPER)	CECO QA DRESDEN
J. Kollock	CECO QA ENG.	ZION
G. Frankovich	TECHNICAL STAFF	LASALLE
J. JURJEN	CECO QA Insp.	QUAD CITIES QA
R. VINE	CECO QA ENGR	DRESDEN Q.A.
A. SCOTT	CECO QA ENGR	BYRON QA
D. Winchester	CECO QA Insp.	Byron QA
D. SIBLE	CECO QA ENGINEER	Dresden
J. LABONTE	CECO Q.A. Insp	Braidwood OPERATING
L. Williams	CECO QA SUPV	Byron
R. KYROUAC	CECO QA Supv.	
R. BRANSON	MASTER ELECTRICIAN	
Mark Bailey	CECO T.S. ZION	
MICHAEL MUSSET	CECO QA ENGINEER	LASALLE
GUS PONCE	CECO Q.C	ZION
Gregory J. Korwin	CECO QA	ZION.

March 15, 1985

Messrs.: R. Querio
N. Kalivianakis
J. Gudac
G. Diederich
D. Scott
K. Graesser
W. Shewski

Subject: Training on Environmental Qualification
and Requirements for Implementation of
10CFR50.49 Rule

The following personnel attended a one day seminar conducted on
February 15, 1985, at Production Training Center.

<u>Name</u>	<u>Title</u>	<u>Organization</u>
Ron Smejkal	IM Foreman	CECo
Gus Ponce	Quality Control	CECo Zion
R.R. Rothermel	Elect. Maint.	Zion
Pat Dillon	Q.C.	Zion
Brett Bornhart	Q.C.	Byron
Keith Marity	Q.C.	Byron
William Kapinus	Elect. Maint.	Dresden
Frank Petrusich	Q.C.	Dresden
Howard J. Kaczmarek	QA	Zion
Allan J. Schmidt	Q.C.	Quad
Robert Phippen	Q.C.	Quad Cities
Jerome D. Jurecki	Q.C.	Dresden
Richard J. Meadows	Master Mechanic	Dresden
Daniel J. McMenamin	QA	Zion
Marvin Bonn	1230 E. GO 3368	NSD
Wallace Hildy	Master IM	Dresden

The seminar covered the details of CECo Environmental
Qualification Program, specifically:

1. History of Environmental Qualification
2. 10CFR50.49 rule requirements
3. Elements of CECo E.Q. Program
4. Departmental responsibilities to implement the program
(Station, SNED, QA, etc.)
5. Lessons learned from Zion E.Q. Audit

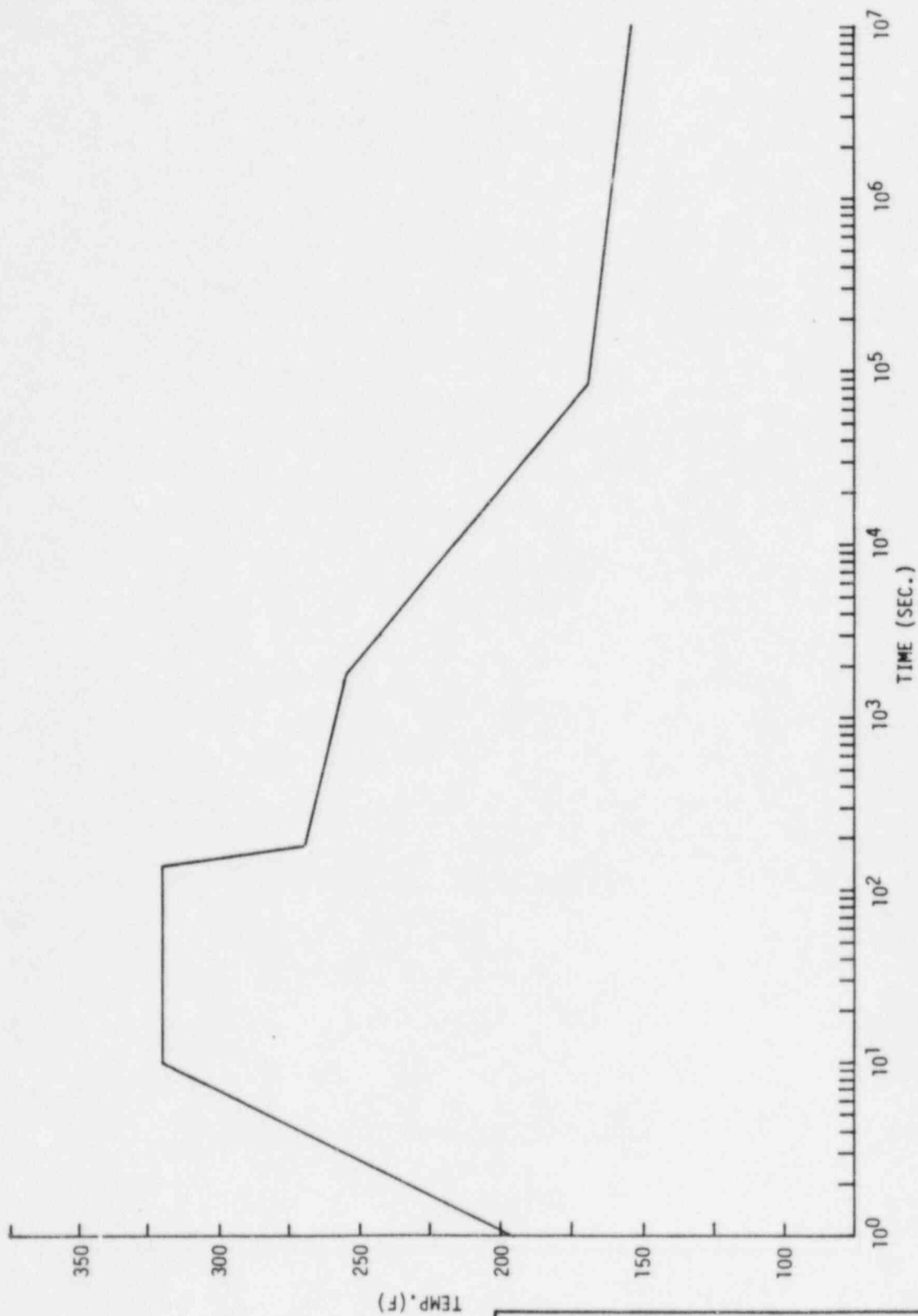
The course was presented by Messrs. Steve Zunjic of Station Nuclear
Department and C. Crane of Westec Services Inc.

Please retain this document in your files as evidence of training in Environmental Qualification area.

For further questions regarding this or future training please contact S. Zunjic at ext. 2856.

JS
JS 4-10-85
J.S. Abel

JS
SZ/dg/2229a
cc: All attendees
R.E. Grams



BYRON/BRAIDWOOD STATIONS

EQUIPMENT ENVIRONMENT QUALIFICATION REPORT

FIGURE 3.2-1

CONTAINMENT ENVIRONMENTAL
QUALIFICATION ENVELOPE

March 15, 1985

Subject: Zion Station, Units 1 & 2
Environmental Qualification,
Maintenance and Surveillance Schedule

Reference: Letter from Mr. K.L. Graesser to
Mr. J.S. Abel dated December 13, 1984.

Mr. K.L. Graesser:

We have reviewed the stations comments on 4KV Motors, RCFC Motors, Cables and Junction Boxes regarding required maintenance. We basically concur with your comments, as outlined in the referenced letter, on the subject motors: RHR Pump Motors, AFW Pump Motor, Charging Pump Motors, SI Pump Motors, Containment Spray Pump Motors and RCFC motors. The frequency of electrical inspection and tests on the RHR and A.F.W. Pump motors can be extended to once every other outage. We also concur with your cable and penetration inspection and selection criteria.

Junction boxes and terminal blocks are critical element within Safety Related Circuits. Nuclear Industry has been aware of technical concerns of qualification of terminal blocks for some time. Sandia National Laboratories in January, 1981, issued a test report (NUREG/CR-1682) demonstrating significant effects of containment spray leakage currents. We recommended that field walkdown of all junction boxes in harsh areas be performed and appropriate check sheets, based on the EPMS plan located in Tab E of the documentation package, be filled out. The inspection of EQ junction boxes located in the harsh areas of the auxiliary building do not have to be completed before the end of this unit refueling outage. These inspections can be completed between the outages.

We have concurred with the above position with your Mr. M. Bailey verbally. This letter serves to document our verbal approval.

A change of the M&S requirements in Tab E of the documentation packages will be initiated to reflect the new position.

If you should have any questions, please contact Ted Ulinski, extension 2842.

T.M. Ulinski

T.M. Ulinski

T.M. Ulinski

Approved: F.G. Lentine

for

SZ/ji/2049Z

cc: M. Rauckhorst (S&L)
M. Bailey