



STONE & WEBSTER MICHIGAN, INC.

P.O. Box 2325, BOSTON, MASSACHUSETTS 02107

Mr. J. G. Keppler, Administrator, Region III
Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, IL 60137

June 14, 1983
J.O. No. 14509
NRC File #83-06-14

RE: DOCKET NO. 50-329/330
MIDLAND PLANT - UNITS 1 AND 2
OVERVIEW OF THE CONSTRUCTION COMPLETION PROGRAM
REPORT NO. 2

A copy of the Construction Implementation Overview Report No. 2 for the period June 1, 1983 through June 10, 1983 is enclosed with this letter. Also included are minutes of the meetings attended during this reporting period between members of the Overview Team, CPCo Management Review Committee; NRC, CPCo-Jackson, MI, and MPQAD. A status of the program development is provided herein.

If you have any questions with respect to this report, please contact me at (517) 631-4286, extension 486.

Very truly yours,

S. W. Baranow
Program Manager

Enclosure

SWB/ka

cc: JHarrison, NRC Glen Ellyn
RCook, NRC Midland (site)
DBMiller, CPCo Midland (site)
RBKelly, S&W
APamaruso, S&W

add 1 pg - ct

Report No. 2

June 1, 1983 through June 10, 1983

Personnel on Site

Stone & Webster Michigan, Inc.

S. Baranow	W. Miller
F. Bearham	A. Smith
W. Sienkiewicz	J. Chawla
R. Scallen	G. Foley (Temporary)
J. Langston	C. Larsen (Temporary)

Meetings Attended

<u>Date</u>	<u>Attendees</u>	<u>Purpose</u>
June 1, 1983	Stone & Webster Consumers Power Company Management Review Committee	Review of revised QVP
June 3, 1983	Stone & Webster MPQAD	Review of PQCI 1.60
June 7, 1983	Stone & Webster NRC	CIO Program
June 8, 1983	Stone & Webster Consumers Power Company M. C. Jones EC	System Interaction Walkdown

Meetings

June 1, 1983 - Management Review Committee meeting for discussion on revisions to the Quality Verification Program; review and status of open items identified in the meeting of April 29, 1983. Items requiring resolutions prior to presentation to the NRC are as noted:

- a) Adequacy of drawings (A8) - large bore pipe hangers .
Mr. J. A. Rutgers (Bechtel) offered a 24 hour turnaround for closing out this action.
- b) Additional verification of equipment received and installed (E2). Action by D. B. Miller and R. A. Wells (CPCo).
- c) Material traceability of installed hangers (E3). Action by R. A. Wells (CPCo) and J. A. Rutgers (Bechtel).
- d) Discussion of nonconforming items with Project Engineering action by R. A. Wells (CPCo and J. A. Rutgers (Bechtel). This item is closed as it relates to the QVP, but is, however, a restraint on processing the NCRs.

- e) Identification of QVP related commitments. Action by D. B. Miller and R. A. Wells (CPCo)

CIO questioned the method of schedule of work:

- a) Would a critical path level II network be issued?

D. B. Miller responded that his office would issue a listing of priorities by systems/areas.

Other questions raised by CIO were:

- a) Are job descriptions and responsibilities of CPCo personnel engaged to implement the QVP available?
- b) Has a program been developed and responsibilities established of personnel assigned to process nonconformances?

Responses:

- a) R. A. Wells and D. B. Miller advised that job descriptions are available - CIO will confirm during evaluation.
- b) D. B. Miller advised that processing of nonconformance would be performed by Perry, Nu-Tec. A program will be developed. CIO will confirm this activity.

An evaluation of the Management Review Committee responsibilities has been performed utilizing a CIO evaluation check list. This check list will not be submitted as an attachment to this report, but will be available for review. This was discussed with Mr. J. Harrison, NRC Region III inspector, who stated that the NRC had no interest in reviewing check lists at this time.

June 3, 1983 - CIO had concerns with the application of the PQCI 1.60 "Inprocess Inspection for Fabrication/Installation or Rework of Piping Systems" and requested a meeting with MPQAD to explain the purpose and intent of the PQCI.

CIO concerns were:

- a) The Quality Control Inspection Record attributes do not lend themselves to the title of the PQCI "Inprocess."

Response: It was agreed by MPQAD that the title was somewhat misleading and if changed to read "Audit of" or "Surveillance Inspection For", the intent of the procedure would be clarified.

- b) Under Special Instructions, paragraph 1.; "This PQCI shall be implemented once per calendar week and shall include inspections from each of the various BOP Fabrication/Construction areas on the jobsite". CIO requested clarification of this paragraph.

Response: MPQAD agreed to reword the paragraph to eliminate the ambiguity.

It was explained by MPQAD that the PQCI was meant to serve as an audit function of work, which was performed to other PQCI's, applicable to the attributes listed on the QCIR. Attendees were S. W. Baranow, F. Bearham Stone & Webster and R. A. Wells, H. P. Leonard of MPQAD.

June 7, 1983 - Meeting was held with Mr. R. Cook, NRC Site Senior Inspector, to establish weekly meeting schedule. It was agreed to meet each Thursday at 2:00PM to discuss the CIO performance activities of the preceding week.

June 8, 1983 - System Interaction Walkdown

CIO performed an evaluation of the training program initiated by Mark Jones Engineering Consultants, Inc., (MJEC) in accordance with MJEC procedure #8301-WTP-2-Q Rev 2, 6/01/83 titled "Procedure for Training of SSIP/S Walkdown Team Members". The training program was administered by M. Jones, President and S. Harris, Project Manager. All MJEC personnel assigned to the walkdown program were in attendance. The program was presented in three parts: (1) a morning session consisting of familiarization with procedures; (2) afternoon session consisting of a simulated walkdown followed by; (3) a written examination. The program was evaluated by CIO personnel during the entire period with results documented on the evaluation checklist.

Presentations were made by members of the System Interaction Program describing responsibilities, purpose and scope of the program. Handouts, consisting of a Program Manual with associated Administrative Task Procedures were distributed to the CIO. The manual and implementing procedures have been reviewed and approved by CPCo Engineering and MPQAD.

CIO, informed that the walkdown was scheduled to start June 9, 1983, expressed concern that the program had not been reviewed by NRR, Washington or Region III prior to the start of the official walkdown. Mr. D. B. Miller was requested to state the CPCo position on this concern. He advised the Interaction members that no walkdowns be undertaken pending reviews and comments by the NRR and NRC Region III. A meeting has been scheduled with the NRR on June 14, 1983.

In attendance at this meeting were:

- B. Harshe - SSIP/S Project Manager CPCo
- R. Teuteberg - SSIP/S Project Engineer CPCo
- T. Postelwait - Section Head, Mech/Nuclear CPCo
- K. Terry - SSIP/S Site Engineer CPCo
- M. Jones - President, M. G. Jones Engineering Consultants
- S. Baranow - Program Manager S&W
- F. Bearham - Supervisor S&W
- **D. B. Miller - Site Manager CPCo

**Indicated part-time

Status of Program Development

- A. Project Quality Assurance Plan Rev 0 - to be issued week of June 13, 1983.
- B. Third Party Construction Implementation Overview Procedure Rev 1 - to be issued week of June 13, 1983.

- C. S&W Quality Control Instruction, QCI 10.01 - Construction Implementation Overview Evaluation - to be issued week of June 13, 1983.
- D. S&W Quality Control Instruction, QCI 15.01 - Nonconformance Identification Report - to be issued week of June 13, 1983.
- E. Of a total of 96 PQCI's scheduled for issue by MPQAD for the CIO overview, 65 have been submitted for review and checklist development.
- F. Checklist Development Status:
 - 1) First draft - 36
 - 2) Approval cycle - 15
 - 3) Typing - 3
 - 4) Issued - 0

U. S. NUCLEAR REGULATORY COMMISSION
REGION II

SUBJECT

DATE

CONTENTS MUST NOT BE REMOVED

RETURN TO : REGION II CENTRAL FILES



STONE & WEBSTER MICHIGAN, INC.

P.O. Box 2325, BOSTON, MASSACHUSETTS 02107

Mr. J. G. Keppler, Administrator, Region III
Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, IL 60137

June 3, 1983
J.O. No. 14509
NRC File#83-05-01

RE: DOCKET NO. 50-329/330
MIDLAND PLANT - UNITS 1 AND 2
OVERVIEW OF THE CONSTRUCTION COMPLETION PROGRAM
REPORT NO. 1

Attached is a chronology of Stone & Webster Engineering Corporation (SWEC) participation in Consumers Power Company, (CPCo) Construction Completion Program. In addition to addressing various meetings attended by SWEC, a status of the development of various phases of the Construction Implementation Overview Program (CIO) is provided. We will advise your office on a weekly basis as to meetings attended and will report on our program development. Currently six members of the CIO Team are on-site and are supported by two writers, from Boston, in the preparation of evaluation and verification checklists.

If you have any questions with respect to this report, please contact me at extension 665 (Bechtel), 517-631-4286.

Very truly yours,

Stanley W. Baranow
Program Manager

Enclosure

SWB/dmh

cc: RCook, NRC Midland ✓
JJHarrison, NRC Glen Ellyn
DBMiller, Midland
RBKelly, S&W
APAmaruso, S&W

~~8306130308~~ 3/10

The initial visit to the site by the undersigned, was made on April 28, 1983 for an introductory meeting with CPCo management personnel. Throughout this period numerous meetings were attended by CIO personnel, listed by dates shown:

- 1) April 29, 1983 - Management Review of the Construction Completion Program.
- 2) May 5, 1983 A.M. - Introductory meeting with key members of the Management Review Committee; CPCo, Bechtel and SWEC.
- 3) May 5, 1983 P.M. - Meeting with R. Wells, B. Palmer, MPQAD. Discussions on Training and CCP, received handouts of electrical NCRs, NRC correspondence, Inspectors Training Program and a copy of the CPCo Nonconformance procedure.
- 4) May 11, 1983 - Introductory meeting with Mr. R. Cook, NRC site Senior Inspector; briefly discussed the philosophy and implementation of the CIO program. The subject of weekly progress reports and meetings with NRC and CPCo was raised. Mr. Cook advised that weekly reports and meetings would not be required during SWECs development of the overview program, but would commence with the implementation of the CCP.
- 5) May 12, 1983 - Meeting with the NRC, CPCo, Bechtel and SWEC for discussion of the Construction Training Program FPG-2.000 Rev. 1 Program requires revision to address how "Trainers are trained."
- 6) May 17, 1983 - Meeting with NRC regional and site representatives. The Quality Verification Program Document was reviewed in its entirety. Numerous areas were judged by the NRC to be unsatisfactory, particularly, the 95/95% acceptability plan. Also addressed were NRC concerns to responses by CPCo in letters dated April 6 and April 22, 1983 which were judged to be inadequate. NRC requested that the CIO perform an overview evaluation of the Interaction System walkdown of Safety Related equipment.
- 7) May 18, 1983 - Management Review for Preparation and Statusing of Bulk Hangers organization and training of supervision and craft personnel. In attendance were representatives of CPCo, Bechtel and SWEC.
- 8) May 23, 1983 - Meeting with R. Wells, Executive Director, MPQAD and the undersigned to discuss documentation required by CIO; PQCI, status of PQCI development, INPO audit findings and responses, training matrix, CPCo commitments to the NRC. Also, discussed was the vehicle to be used to identify CIO concerns noted during reviews of PQCI where attributes appear to be ambiguous and/or not in compliance with Code requirements. Method of Communication/Notification is under consideration.
- 9) May 23, 1983 P.M. - Meeting with Roy Wells, Executive Director, to discuss getting on copy for various documents i.e. PQCI, Inpo Audit findings and status, training matrix, status of PQCI development.
- 10) May 27, 1983 - Meeting with Bruce Peck, CPCo Construction Superintendent and Bechtel Representatives to discuss Construction Completion Team organization. Topics included background and Philosophy, Bechtel Construction Organization, CCP Organization, Team Organization, Communications between Bechtel, CPCo ECIO, CIO Team Organization, Objectives and Philosophy.

STATUS OF PROGRAM DEVELOPMENT

- A. CIO Plan transmitted to the site NRC Inspector and CPCo on Thursday, May 19, 1983.

d. Evaluation Plan (software assessment), in rough draft-awaiting comments.

C. Checklists under development:

- * QC and Construction Training - Evaluation
- * Management CCP responsibilities - Evaluation
- * Bulk Hanger Organization - Evaluation
- * "N" series procedures - Evaluation
- * Reinspection of Pipe Component Supports P119/P129 walkdown - Evaluation and Verification



STONE & WEBSTER MICHIGAN, INC.

P.O. Box 2325, BOSTON, MASSACHUSETTS 02107

Mr. D. L. Quamme
Consumers Power company
Midland Nuclear Power Plant
3500 E. Miller Road
Midland, MI 48640

PRINCIPAL STAFF	
EA ✓	DPRP
D/RA	DE
A/RA	DRMSP
PC	DRMA
PAO	SCS ✓
SGA	ML
ENF	File Gas 130

March 7, 1984

J.O. No. 14509
SWM-047

Docket No. 50-329/330
CIO Hold Points (Training)
Midland Nuclear Power Plant
Construction Implementation Overview

CIO has completed a review of the response to NIR 008 and considers it satisfactory. This clears NIR 008 and CIO Hold Point 010.

In order to clarify some misunderstanding it should be recognized that all CIO hold points regarding Bechtel and MPQAD Training have been released and CIO has no restraints upon assignment of those personnel to any activity. CIO will continue to monitor training commitments with particular emphasis on the following areas:

- a) Adequacy of Matrix
- b) Adequacy of Training
- c) Completeness of Training Records

J. E. Karr
J. E. Karr
CIO Program Manager

FB/ka

cc:
JGKeppler, US NRC Glen Ellyn, IL
JHarrison, US NRC Glen Ellyn, IL
RJCook, US NRC Midland (site)
RAWells, CPCo Midland (site)
NIREichel, CPCo Midland (site)
RBKelly, S&W
APAmoruso, (2) S&W
CIO General Files
FBearham

MAR 9 1984

5403130271



STONE & WEBSTER MICHIGAN, INC.

P.O. Box 2325, Boston, Massachusetts 02107

PRINCIPAL STAFF		
✓ RA	vas	DPRP
D/RA		DE
A/RA		DRMSP
PC		DRMA
PAO		SCS
SGA		ML
ENF		File vas

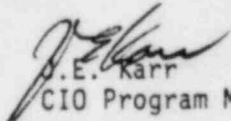
✓
cio
+30

Mr. J. J. Harrison
Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, IL 60137

March 6, 1984

Subject: DOCKET NO. 50-329/330
MIDLAND NUCLEAR POWER PLANT
RESUMES AND AFFIDAVITS FOR CIO STAFF MEMBERS
SERIAL NO. SWM-045

Attached is the signed affidavit and resume for Mr. R. E. Horine, who has been assigned to the CIO staff at the Midland Nuclear Power Plant.


J.E. Karr
CIO Program Manager

Enclosures

JJR/ka

cc: CIO General Files

MAR 9 1984

~~8403130388~~

Figure 3-1

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

ATOMIC SAFETY AND LICENSING BOARD

In the Matter of
CONSUMERS POWER COMPANY

(Midland Plant, Units 1 and 2)

Docket No. 50-329 OM
50-330 OM

Docket No. 50-329 OL
50-330 OL

AFFIDAVIT OF Ronald E. Horine

My name is Ronald E. Horine . I am employed by Stone & Webster
Michigan, Inc. as Quality Assurance Engineer .

I am currently assigned to the team which is proposed to conduct a Third Party Construction Implementation Overview at the Midland Nuclear Plant site. Prior to being given this assignment, I have never worked on any job or task associated with the Midland Project, or any job or task for or on behalf of Consumers Power Company or Bechtel relating to issues that I will be reviewing. I have never been employed by Consumers Power Company or Bechtel. I do not own any shares of Consumers Power Company or Bechtel stock. Mutual funds or other funds in which I may have a beneficial interest, but over which I have no control, may own shares of Consumers Power Company or Bechtel stock, of which I am unaware. A list of such funds in which I have an interest are attached. I have no relatives which are or have been employed by Consumers Power Company or Bechtel.

Signed Ronald E. Horine

Sworn and Subscribed Before Me This 2nd Day of March, 1984

Patricia A. Puffer
NOTARY PUBLIC

Notary Public, Bay County, MI
Commission Expires Mar. 4, 1986

My Commission Expires 3-4-86

March 1984

HORINE, RONALD E.

QUALITY ASSURANCE ENGINEER

EDUCATION

New Washington High School, New Washington Indiana - Diploma 1972

EXPERIENCE SUMMARY

Mr. Horine has 9 years experience actively working within ASME approved Quality Assurance programs supportive of ASME Section III & VIII construction activities. Currently employed by Stone & Webster Engineering Corp. (SWEC) since 03-01-'84 as a Quality Assurance Engineer and assigned to the Midland Nuclear Project construction overview group. His responsibilities include but not necessarily limited to third party verification of construction contractor QA program implementation.

Prior to employment with (SWEC) Mr. Horine's QA experience is supported by hands on inspection functions combined with both supervision and management of such thereof. During the time frame of 1978 through 1984 Mr. Horine was employed by Cherne Contracting Corporation (Mechanical Contractor with Marble Hill Units 1 & 2) and successfully excuted the position of QC Inspector to the position of Quality Engineering Manager. During the time frame of 1974 through 1978 Mr. Horine was employed by Ryan Industries (ASME Section III & VIII Fabricator) and successfully excuted the positions of QC Inspector and QC Inspection Foreman.

PROFESSIONAL AFFILIATIONS

None

PUBLICATIONS

None

DETAILED EXPERIENCE RECORD
HORINE, RONALD E. 42577

STONE & WEBSTER ENGINEERING CORPORATION, BOSTON, MA (March 1984 to Present)

Appointments:

Quality Assurance Engineer - March 1984

Midland Nuclear Project, Consumer Power Company (March 1984 to Present)

As QUALITY ASSURANCE ENGINEER (March 1984 to Present), assigned to verify the correct implementation of site work procedures by both the client and contractors QA departments including integral project management activities.

CHERNE CONTRACTING CORPORATION, NEW WASHINGTON, IN (Oct 1978 to March 1984)

Appointments:

QE Manager Level III - May 1983
Interim QE Manager Level III - March 1983
QC Supervisor Level III - Aug 1982
QC Engineer Level III - March 1982
QC Supervisor Level II - May 1979
QC Inspector Level II - Oct 1978

Marble Hill Project, Public Service of Indiana (Oct 1978 to March 1984)

As QUALITY ENGINEER MANAGER (March 1983 to March 1984) including interim position, responsible for the approval of QC instructions and procedures: review of project procedures: review and closeout of NCR's and CAR's, including identification of trends adverse to quality; review of QA records for technical adequacy; and maintenance of quality records. Specific responsibilities included but were not necessarily limited to:

- A) Training, certification, and supervision of all QE and QA records personnel
- B) Vendor surveillance and trending activities
- C) Assembling, review and turnover of all QA records
- D) Preparation of appropriate code data reports (ie NF-1, NPP-1, N-5)
- E) Review and approval of all traveller documentation

As QUALITY CONTROL SUPERVISOR (Aug 1982 to March 1983) responsible for supervision of all QC inspectors assigned to safety related construction activities within the Auxiliary Building and Units 1 & 2 containments. This responsibility included hiring and scheduling of work activities associated with inspection of large and small bore welding, hanger and equipment installation.

As QUALITY CONTROL ENGINEER (March 1982 to Aug 1982) responsible for development of all QC instructions relative to receipt inspection, calibration, material control, storage and maintenance. This position also included the responsibility to review all QA records associated with the above with necessary interface with the ANI for obtaining review and approval thereof.

As QUALITY CONTROL SUPERVISOR (May 1979 to May 1982) responsible for development and implementation of work instructions supportive of program surveillance, CMTR/data package review, calibration, material control and storage. This position also included supervision of all QC inspectors working in receipt inspection, storage and maintenance and calibration. Certified per SNT-TC-1A criteria as Level II MT and Level III PT.

As QUALITY CONTROL INSPECTOR (Oct 1978 to May 1979) responsible to start an active QC inspection program supportive of receipt inspection, program surveillance, calibration and to assist as Level II MT and PT as needed.

RYAN INDUSTRIES, LOUISVILLE, KY (Sep 1974 to Oct 1978)

Appointments:

QC Foreman - May 1978
QC Inspector - Sep 1974

As QUALITY CONTROL INSPECTION FOREMAN (May 1978 to Oct 1978) responsibilities included performance of MT and PT NDE activities along with in-process construction inspection. Such activities involved, UT thickness inspection, pneumatic, hydrostatic and helium leak test, welding inspection and final assembly of both ASME Section III and VIII items. Also supervised liquidation/sale of all plant materials and consumables commensurate with plant close-out activities.

As QUALITY CONTROL INSPECTOR (Sep 1974 to May 1978) responsibilities included MT, PT and UT thickness gauging activities, receipt inspection, hydro, helium and pneumatic leak testing, instrumentation pneumatic/electrical inspection, and welding inspection. Started a research and development inspection process relative to field location of liquified natural gas vaporizers, this process involved field installation trouble shooting and summarizing such in a fashion useful for shop implementation of preventive measures to limit field installation problems.

CHICAGO BRIDGE AND IRON COMPANY, CLAREMORE OK (March 1974 to Sep 1974)

Appointments:

Radiographic Trainee - March 1974

As RADIOGRAPHIC TRAINEE (March 1974 to Sep 1974) responsibility included assistance in the performance of radiographic operations pertaining to the construction of a 220,000 gallon liquified natural gas storage vessel.

STONE & WEBSTER ENGINEERING CORPORATION

QA EMPLOYMENT EXPERIENCE AND EDUCATION RESUME
T-256

(PLEASE TYPE OR PRINT IN INK)

NAME			SOCIAL SECURITY NUMBER			
Horine	Ronald	E.	316-64-8103			
LAST	FIRST	MIDDLE				
EXPERIENCE AT STONE & WEBSTER (LIST ALL POSITIONS HELD) *						
TITLE	JOB DESCRIPTION (DETAIL WORK PERFORMED)	FROM		TO		
		MO.	YR.	MO.	YR.	
Quality Assurance Engineer	(Hired 3-01-1984)	3	84	*		
PREVIOUS EXPERIENCE (LIST MOST RECENT EMPLOYMENT FIRST) *						
						*(Present)
COMPANY	TITLE	JOB DESCRIPTION (DETAIL WORK PERFORMED)	FROM		TO	
			MO.	YR.	MO.	YR.
Cherne Contracting Corporation	QE Manager	See resume attached	10	78	3	84
Ryan Industries	QC Foreman	See resume attached	9	74	10	78
Chicago Bridge and Iron	Radiographic Trainee	See resume attached	3	74	9	74

*SEPARATE RESUME MAY BE ATTACHED IF IT HAS ALL REQUIRED INFORMATION

QA CERTIFICATION (LIST MOST RECENT CERTIFICATIONS FIRST)

COMPANY	TYPE OF CERT.	LEVEL (IF GIVEN)	CERT. BY TEST		CODE, SPEC. DOCUMENTATION	GOVERNING AGENCY	DATE RECEIVED	WAS CERT. DOCUMENT GIVEN?	
			YES	NO				YES	NO
Cherne Contracting Corporation	ANSI N45.2.6	III&II	X		ANSI N45.2.9 ASME Sec- tion III 1977 edi- tion Winter 77 Addenda Mil Std 105D	--		X	
	NDE "MT"	II	X		SNT-TC-1A	--	1-23-79	X	
	NDE "PT"	III	X		SNT-TC-1A	--	5-21-79	X	
Ryan Industries	NDE PT	II	X		SNT-TC-1A	--	11-27-74	X	
	UT Thick- ness	N/A	X		QCP-T-209	--	3-1975	X	

NOTE: INCLUDE COPIES OF ALL CERTIFICATION DOCUMENTS, CERTIFICATES, CARDS, ETC

EDUCATION: SCHOOLS, COLLEGES, TRAINING COURSES, (QA) ETC.
(LIST GENERAL EDUCATION FIRST)

NAME OF SCHOOL AND LOCATION (IF GIVEN BY EMPLOYER SPECIFY COMPANY NAME)	DEGREE GRANTED AND MAJOR, OR TITLE OF COURSE	DATE COMPLETED	NO. OF HOURS	GRADE
New Washington High School New Washington Indiana	Diploma	1972	--	--
Ryan Industries	(Course Title) Welding Inspection Quality Assurance	4-1976	20	N/A
Ryan Industries	(Course Title) Code Welding from Inquiry to Shipment	3-1977	20	N/A
Ryan Industries	(Course Title) Tube Fabrication	11-1975	8	N/A
Cherne Contracting Corporation	(Course Title) Radiation Safety	11-1979	8	N/A
Cherne Contracting Corporation	(Course Title) Instrumentation Design/Installation	1979	40	N/A
Cherne Contracting Corporation	(Course Title) Quality Circle Leader Training	1983	40	N/A

NOTE: FOR SPECIFIC QA TRAINING COURSES, INCLUDE COPIES OF ALL COURSE
OUTLINES, CERTIFICATES, DIPLOMAS, ETC., IF GIVEN.

NAME Ronald F. Horine

SOCIAL SECURITY 316-64-8103

LIST EQUIPMENT WHICH YOU HAVE OPERATED

RADIOGRAPHIC	ULTRASONIC	MAG. PARTICLE	LIQUID PENETRANT	EDDY CURRENT	OTHER (MTE, ETC.)
(1) Iridum 192 source	(1) Nova 201 (2) Nortec-100	(1) Y-6 Yoke (2) P-90 (3) MagnaFlux Field Indicator	(1) Black Light	N/A	Master Gauges, Calipers, Height Gauges, Psychrometer Hygrometer AMP/Volt Gauges, Thread Gauges, Torque Wrench Calibrators, Millivolt Source

ENGINEERING REGISTRATION

STATES AND LICENSE NUMBERS	EIT EXAMINATIONS	DISCIPLINE
N/A		

MEMBERSHIP IN PROFESSIONAL SOCIETIES

N/A

PUBLICATIONS

N/A

NAME Ronald E. Horine

SOCIAL SECURITY No 316-64-8103

REMARKS:

The foregoing information is true insofar as its accuracy and complete to the best of my knowledge.

SIGNATURE

Ronald E. Horine

DATE

03-06-1984



STONE & WEBSTER MICHIGAN, INC.

P.O. Box 2325, BOSTON, MASSACHUSETTS 02107

PRINCIPAL STAFF			
✓	Was		
ES			
PRO			
SGA			
ENF		File	Was

February 29, 1984

Mr. D. L. Quamme
Consumers Power Company
Midland Nuclear Plant
3500 E. Miller Road
Midland, MI 48640

Subject: Docket No. 50-329/330
Midland Nuclear Plant - Units 1 and 2
Overview of the Construction
Completion Program
Serial No. SWM-039

Re: Midland Energy Center Center
Training of Construction Personnel
Reference CCo Correspondence CSC-7355

Please be advised that CIO has performed sampling inspections of the Construction Training Records for those personnel noted in the attachments to the above referenced correspondence. Results were satisfactory and personnel listed on attachments are cleared to perform status assessment.

J. E. Karr
J. E. Karr
CIO Program Manager

JEK/ka

cc:
JGKeppler, US NRC Glen Ellyn, IL
JJHarrison, US NRC Glen Ellyn, IL
RJCook, US NRC Midland (site)
RAWells, CCo Midland (site)
RBKelly, S&W
APAmoruso, S&W

~~8403130297~~

MAR 6 1984



STONE & WEBSTER MICHIGAN, INC.

P.O. Box 2325, BOSTON, MASSACHUSETTS 02107

Mr. D. L. Quamme
Consumers Power Company
Midland Nuclear Plant
3500 East Miller Road
Midland, Michigan 48640

February 28, 1984

Subject: Docket No. 50-329/330
Midland Plant - Units 1 and 2
Overview of the Construction
Completion Program
Serial No. SWM-036

PRINCIPAL STAFF	
✓ KA Das	PRP
D/RA	DE
R/RA	DR/SE
RC	DR/A
PAO	BOS <i>029+3 ✓</i>
SGA	ML
ENF	File Das

Re: Midland Energy Center
Training of Construction Personnel
Reference CCo Correspondence
CSC-7325 and CSC-7356

Please be advised that CIO has performed sampling inspections of the Construction Training Records of those personnel noted in the attachment of the above referenced correspondence. Re-sample was performed as a result of issuance of NIR-018. Results were satisfactory and CIO has closed NIR-018. Personnel listed on attachments are cleared to perform status assessment.

J. E. Karr
CIO Program Manager

JFS/nl

cc:
JGKepler, US NRC Glen Ellyn, IL
JHarrison, US NRC Glen Ellyn, IL
RJCook, US NRC Midland (site)
RAWells, CCo Midland (site)
RBKelly, S&W
APAmoruso, S&W

~~8403050192~~

MAR 2 1984



STONE & WEBSTER MICHIGAN, INC.

P.O. Box 2325, BOSTON, MASSACHUSETTS 02107

PRINCIPAL STAFF			
	<i>als</i>	DRPB	
		DE	
		DRIVE	
		DRVA	
		ECS	<i>als + 34</i>
		ML	
		FRS	<i>als</i>

Mr. J. J. Harrison
Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, IL 60137

February 24, 1984

Subject: DOCKET NO. 50-329-330
MIDLAND NUCLEAR COGENERATION PLANT
RESUMES AND AFFIDAVITS FOR CIO STAFF MEMBERS
SERIAL NO. SWM - 033

Attached is the signed affidavit and resume for Mr. Z. Zizak, who has been assigned to the CIO staff at the Midland Nuclear Plant.

J.E. Karr
J.E. Karr
CIO Program Manager

Enclosures

JJR/als

cc: CIO General Files

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Figure 3-1

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

ATOMIC SAFETY AND LICENSING BOARD

In the Matter of
CONSUMERS POWER COMPANY

Docket No. 50-329 OM
50-330 OM

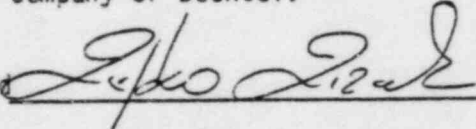
(Midland Plant, Units 1 and 2)

Docket No. 50-329 OL
50-330 OL

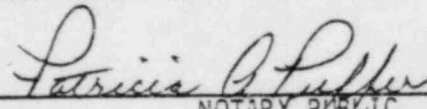
AFFIDAVIT OF ZELJKO ZIZAK

My name is Zeljko Zizak. I am employed by Stone & Webster
Michigan, Inc. as Quality Assurance Engineer.

I am currently assigned to the team which is proposed to conduct a Third Party Construction Implementation Overview at the Midland Nuclear Plant site. Prior to being given this assignment, I have never worked on any job or task associated with the Midland Project, or any job or task for or on behalf of Consumers Power Company or Bechtel relating to issues that I will be reviewing. I have never been employed by Consumers Power Company or Bechtel. I do not own any shares of Consumers Power Company or Bechtel stock. Mutual funds or other funds in which I may have a beneficial interest, but over which I have no control, may own shares of Consumers Power Company or Bechtel stock, of which I am unaware. A list of such funds in which I have an interest are attached. I have no relatives which are or have been employed by Consumers Power Company or Bechtel.

Signed 

Sworn and Subscribed Before Me This 13th Day of February 1984


NOTARY PUBLIC

PATRICIA A. FULLER
Notary Public, Bay County, MI
My Commission Expires Mar. 4, 1986

My Commission Expires 3-4-86

February 1984

ZIZAK, ZELJKO

QUALITY ASSURANCE PROJECT
ADVISORY GROUP

EDUCATION

Nautical College, Split, Yugoslavia, four years
National Board of Boilers and Pressure Vessels Inspector
School
Non-Destructive Examination Course
Authorized Inspector School (AI)
Authorized Nuclear Inspector School (ANI)
National Board School for ANI

All of the above courses consisted of: General theory involved in Non-Destructive Examination, Quality Control systems, Quality Assurance systems, Audit systems, Welding General Shop Inspection procedures, specific requirements of the ASME Code Section I, III, IV, V, VIII and IX.

EXPERIENCE SUMMARY

Mr. Zizak has 10 years of experience in the Quality Assurance/Quality Control Inspection Industry. Currently, as Quality Assurance Engineer, he is assigned to Project Advisory Group.

Prior to joining SWEC, Mr. Zizak was a Quality Control Manager for Cherne Contracting Corporation, where he was responsible for all Quality Control Department at Marble Hill Construction site.

Prior to joining Cherne Contracting Corporation Mr. Zizak was a Quality Verification Supervisor for J. A. Jones Construction Company, NC., where he was responsible for planning, scheduling and controlling group activities.

Prior to joining J. A. Jones Construction Company, Mr. Zizak was an authorized Nuclear Inspector for Hartford Steam Boiler Inspection and Insurance Company.

PROFESSIONAL AFFILIATIONS

National Board of Boilers and Unfired Pressure Vessels Inspector - Member
Marine Engineer - Reg. No. 162/68BS

DETAILED EXPERIENCE RECORD
ZIZAK, ZELJKO 99825

STONE & WEBSTER ENGINEERING CORPORATION, BOSTON, MA (Feb 1984 to Present)

Project Advisory Group - Feb 1984

Appointments:

Project Advisory Group (Feb 1984 to Present)

As QUALITY ASSURANCE ENGINEER, assigned to the Construction Implementation Overview Group. Mr. Zizak was responsible for monitoring the effectiveness of the Construction Completion Program. Evaluation of predetermined procedures and instructions, and quality practices utilized in the construction of the Midland Plant Units 1, 2 and the effectiveness of those practices.

Cherne Contracting Corporation, Minneapolis, MN (Jan 1983 to Feb 1984)

Quality Assurance Department - Jan 1983 to Feb 1984

Appointments:

As QUALITY CONTROL MANAGER at Marble Hill Nuclear Generating Station, responsible for the hiring, supervisors and inspectors. Manager over five (5) supervisors and up to one hundred and ten (110) inspectors. Cherne was a mechanical contractor at the Marble Hill Site working the Containments, Auxiliaries, and Turbine buildings for Units 1 and 2. We were responsible for inspection of piping, component support, instrumentation, receiving, equipment installation, and NDE examinations. In July of 1983, Cherne Contracting Corporation did obtain the ASME certificate of authorization for NA and NPT stamp. No violations or findings were identified in the Quality Control department by the ASME representative, State of Indiana, or NRC personnel from the day Mr. Zizak was hired in. Act as Project QA Manager at the time when the Project QA Manager was absent from the Marble Hill Job-site.

J.A. Jones Construction Company, Charlotte, NC (Feb 1980 to Jan 1983)

Quality Assurance Department - Feb 1980 to Jan 1983

Appointments:

As QUALITY VERIFICATION LEAD SUPERVISOR at WPPSS Unit 1 and 4, responsible for Containment, General Services, and Turbine Generator buildings for the installation of all equipment, piping and of all NSSS piping and components. Responsibilities include planning, scheduling, and controlling group activities, assuring preparation and maintenance of required reports and documents and evaluating personnel performances. Scheduling training program for problems detected.

ZZ

Hartford Steam Boiler Inspection and Insurance Company, Seattle, WA (Sept 1974 to Feb 1980)

Inspector - Sept 1974 to Feb 1980

Appointments:

As AUTHORIZED NUCLEAR INSPECTOR (June 1977 to Feb 1980), responsibilities included monitoring Quality Assurance Program, verifying material compliance with applicable ASME Code requirements, traceability, examination, welding procedures, witness non-destructive examination and perform required inspection by the various ASME Code Section requirements.

Did inspections for the Following Hanford Contractor: J.A. Jones Construction Company; J.A. Jones Construction Services Company; Westinghouse Hanford Company FTF; Westinghouse Hanford Company 300 Area; General Electric Company, WNP-2; Johnson Controls, Inc., WNP-2; B.F. Shaw (QA Representative for WNP-1/4; Bovee and Crail Construction Company and General Energy Resources, Inc. (changed to WHS/BOECON/GERI).

As AUTHORIZED NUCLEAR INSPECTOR, (Jan 1977 to June 1977), responsible for inspection on new construction of boilers and unfired pressure vessels at National Steel, Cam Industries and Seattle Boiler Works.

As INSURANCE INSPECTOR (Sept 1974 to Jan 1977), responsible for inspection on boilers, unfired pressure vessels, air conditioning, electrical motors and pumps for insurance purposes against explosion, wear and tear in-service and idle positions.

Olga Steamship Company, London England (Apr 1969 to Mar 1973)

Assistant Engineer - Apr 1969 to Mar 1973

Appointments:

As 3rd ASSISTANT ENGINEER (Apr 1969 to June 1971), responsible for supervision of operation and maintenance of all engine room and equipment during work shift. Responsibilities also included supervision of boiler, oil purifiers, clarifiers, separators and air compressors.

As 2nd ASSISTANT ENGINEER, (Nov 1971 to Mar 1973), responsible for supervision of operation and maintenance of all engine room and equipment during work shift. Responsibilities also included supervision of auxiliary engines and turbines, generators, and all electric motors and pumps.



STONE & WEBSTER MICHIGAN, INC.

P.O. Box 2325, BOSTON, MASSACHUSETTS 02107

STAFF			
DES			
SGA			WJG +3
ENF			DES

Mr. J.J. Harrison
Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, Illinois 60137

February 21, 1984
J.O. No. 14509

DOCKET NO. 50-329/330
MONTHLY THIRD PARTY ASSESSMENT MEETING
MIDLAND NUCLEAR COGENERATION PLANT

The protocol governing communications for the Remedial Soils and Construction Completion Programs at the Midland Plant, specifies a monthly meeting to discuss third party assessment activities and assigns preparation of the minutes of those meetings to Stone & Webster.

Enclosed are minutes of the meeting held on February 9, 1984.

A.P. Amoruso
Project Manager
CIO

A.S. Lucks
Project Manager
Underpinning and Remedial Soils

Enclosures

cc: JWCook, CPCo
DLQuamme, CPCo
JAMooney, CPCo
RAWells, CPCo

FEB 21 1984

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MINUTES OF THE MEETING OF FEBRUARY, 1984

STATUS OF INDEPENDENT ASSESSMENT
OF UNDERPINNING AND REMEDIAL SOILS WORK

PURPOSE

The purpose of the public meeting was to report the status of the Stone & Webster Assessment Team activities and observations regarding underpinning and remedial soils work.

SUMMARY

Mr. Lucks opened the meeting by identifying the major parts of the Assessment Team presentation:

- A summary by Mr. P. Majeski of the Assessment Team activities detailed in Weekly Reports 68 through 71,
- A report presented by Mr. J. Springer on the results of an assessment of the crack evaluations conducted on the el 685 slab in the Auxiliary Building,
- A report by Mr. W. Kilker on the Assessment Team's response to an action item from the December public meeting concerning the criterion for rejackng of the E/W 8 grillages.

Mr. Majeski began his presentation by describing the construction activities that are presently underway at the auxiliary building and the Service Water Pump Structure.

Mr. Majeski then described the Assessment Team activities in overviewing the Phase III activities associated with the change document Stop Work Order. Based upon the satisfactory results of the overview, the Stop Work Order was lifted on January 19, 1984. This overview along with one conducted by MPQAD resulted in two independent reports issued by Stone & Webster and Consumers Power Co. stating that the complexity of the document control system contributed to recurring clerical errors. As a result of these reports, changes are being made to the document control system to address these observations. These changes include computerization of the document control registers and reviews of controlled document files.

The Assessment Team performed an overview of the methods for controlling documents at the five soils-related Document Control Stations. The overview was conducted to assure that the proper documents reached the appropriate station, were posted properly, and that transmittal acknowledgements were used effectively. The Assessment Team concluded that the current document control methods are adequate to assure that the controlled documents are properly maintained. The Assessment Team also evaluated three document control stations including MPQAD to determine if the backlog of revised documents issued from Central Document Control had been properly posted. All documents surveyed by the Assessment Team had been properly posted. The Assessment Team will continue to monitor the document control process.

The next major Assessment Team activity was reviewing the status of the upgrading actions being taken by U.S. Testing. Two of last month's five

open action items are now closed. The closed items are, Item No. 16 from the original MPQAD audit; and providing Level III capability at the site.

Three open action items remain:

- To improve efficiency, the majority of Laboratory Technicians are to be cross-trained to 20 procedures by June 1984. This is now 75 percent complete.
- Two Laboratory Chiefs were to be cross-trained to all procedures by April 1984. This goal has been changed to exclude cross-training to certain procedures such as for testing that will be done offsite or for tests which probably will not be required in the future. The new goal is to have the chiefs certified to 44 of 61 work instructions. This cross-training is 60 percent complete.
- Work instructions for testing activities are to be prepared and incorporated into U.S. Testing procedures by April of 1984. There are ten procedures affected by this item. Two of the revised procedures, which include several work instructions, are scheduled to be completed by the end of February.

The Assessment Team concurs with the revised goals and believes that U.S. Testing is making satisfactory progress.

The Assessment Team observed the performance of the grout test program for the Service Water Pump Structure. This program was implemented to provide data to the control grouting operations. The Team concluded that the program and results provide the necessary information to perform grouting according to the design requirements.

Differential movement of the west EPA reached 92 mils during extremely cold weather. To stabilize the differential movement below the alert level of 100 mils, Consumers Power chose to maintain the load at the W8 grillage on active jacks. Due to this action and after increases in temperature, the differential movement decreased to 46 mils, well below the alert level. The Assessment Team concurs with this action.

Mr. Majeski then summarized the status of the Nonconformance Identification Reports (NIRs) that were active during the past month:

- NIR 20 concerns the calibration of concrete admixture dispensers and was discussed last month. It is expected to be closed out during the third week of February.

- NIR 21 concerns the weld tech sheets of the subcontractor's welding procedures. In certain cases the essential variables were not clearly defined on the welding procedure qualification test records. This is a documentation problem. There were no nonconformances associated with the procedures or the welds

themselves. This NIR is expected to be cleared during the third week of February.

With reference to the status of the Work Activity Packages (WAPs), the one remaining question from the Assessment Team's review of WAP 71 concerning Service Water Pump Structure anchor bolt holes was answered, and the WAP review was closed out.

Mr. Majeski concluded his presentation by stating that there are currently thirteen Open Items from the daily meetings that require action prior to closure.

Mr. J. Springer presented the following report on crack mapping.

In late January, the Assessment Team assessed the crack evaluation program currently in progress for the concrete slab at el 685. The Assessment Team was assisted by two members of Stone & Webster's Structural Division from Boston. One of these engineers is the Structural Division Chief who also is a member of the Management Review Team.

After becoming familiar with all of the appropriate design documents for the slab in question, the Team reviewed the associated crack monitoring data, and the crack evaluation reports. This was followed by an inspection of the cracks themselves and an examination of a recent core sample taken from the slab at el 685. The Assessment Team then met with the Contractor's

Engineering Staff to discuss the crack mapping program and resolve any questions.

The Assessment Team relied heavily on engineering experience and judgement in assessing these activities because a detailed review of the building design is not within the Team's scope of work. The following conclusions were reached:

- Evaluations performed by the Contractor on the cracks have been thorough and the Assessment Team concurs with the findings.
- The cracks in the slab at el 685 are related to shrinkage and negative moments.
- It appears that the contribution to cracking by building settlement, if any, is minor.

In summary, these cracks are not unusual for this type of concrete structure.

In response to the action item from the December Public Meeting, W. Kilker presented the Assessment Team's position on whether there should be a settlement criteria during rejackings on the E/W 8 Grillages initiated by a change in strain of greater than 20 percent in the support columns. Review of the data taken during five rejackings of the grillages indicated that pier settlement has been insignificant during these rejackings. The

purpose of rejackng that is initiated by the change in strain level in the support columns is to readjust the distribution of the loads on the grillage to agree with the design intent. The Assessment Team concluded that the existing rejackng criteria is adequate and a settlement criteria is not needed for this type of rejackng. The NRC closed this Action Item.

This concluded the Assessment Team presentation.

Mr. Mooney of Consumers Power Co. presented a status report on the crack mapping program, an Action Item from the January Public Meeting.

The presentation began with a brief history of the crack mapping program. He explained the role of Wiss Janney as a subcontractor to survey and identify cracks, and the role of Construction Testing Laboratories (CTL) as a subcontractor to evaluate the significance and impact of the cracks identified. The information assembled by these subcontractors first provided baseline data for establishing critical mapping areas and now provides the main program inputs. Review of the program implementation by Consumers Power Co. and the Assessment Team resulted in changes to the program in the areas of procedures, timing, and supervision. These changes also included defining the minimum size of crack that must be mapped.

Mr. Mooney then summarized the cracks that had been added to the program since January 1, 1984.

The presentation next addressed the cracks found in the slab at el 685. The details of actions taken to evaluate the cracks were the same as those identified by J. Springer of the Assessment Team. A Bechtel review and a final evaluation by CTL resulted in the following conclusions.

1. Possible causes for the cracks were identified as volume changes, tensile stress due to bending, or differential settlement.
2. The cracks are not due to the underpinning activities and underpinning activities should continue.
3. The load bearing capacity of the slab has not been effected.

A survey and evaluation of the Auxiliary Building is currently being conducted and any significant cracks that are identified will be added to the crack mapping program. A sample of the results of the survey has been given to the NRC for review. Also the instrumentation system is being supplemented by the installation of Whittemore gauges and rosettes.

Consumers Power Co. concluded that the crack monitoring and evaluation program and the instrumentation system that includes deep seated benchmarks and extensometers, is very adequate for evaluating the condition of the buildings and identifying any changes that may be related to underpinning operations.

This concluded the Consumers Power Co. presentation.

The NRC stated that they would review the crack data provided by Consumers Power Co. and confer with other members of the NRC staff to determine an NRC position on this subject. This item will remain open pending this review.

QUESTIONS AND ANSWERS

The NRC asked several questions concerning items included in Weekly Reports 68 through 71

1. The Assessment Team observation on page 2 of Weekly Report 69 concerns an update on the status of transferring the lessons learned during the underpinning activities for the Auxiliary Building to the Service Water Pump Structure. What is the status of this item? Consumers Power Co. indicated that all of the original 36 items had been dispositioned. The Assessment team stated that they had already reviewed 34 of the items and the review of the remaining two items would close out the observation.
2. The NRC asked Consumers Power Co. to clarify the criteria for identifying cracks that had to be mapped. Consumers Power Co. stated that, with the exception of slabs, any crack 5 mils or greater will be mapped. In slabs, cracks 5 mils or greater and at least 24 inches long will be mapped unless the slab width is less than 24 inches. In this case, the criteria on crack length

is 1/3 the width of the slab. For the engineering evaluation of significant cracks, a 10 mil criteria is being used.

3. Concerning item 69-4 in Weekly Report 69, the NRC asked Consumers Power Co. to identify the new interim criteria for differential upward movement. The new interim criteria are 100 mils on delta 2 and 50 mils on delta 1 relative to the control tower. These are the criteria that have been agreed upon with the NRC.
4. Page 2 of Weekly report 71 concerns NIR 21 on filling out the welding procedure qualification test record. The NRC asked why this nonconformance did not affect the welding procedures or the welds. Stone & Webster stated that in some cases one or two blocks on the qualification test records were not filled out correctly. The information in this block did not effect the procedures or the welds because the qualifications had been done properly.
5. Item 71-9 of Weekly Report 71 discusses the cumbersome nature of the attachments to the U.S. Testing QA Manual. The NRC asked how many attachments accompany the manual and their approximate volume. Stone & Webster indicated that there were 14 attachments and they were approximately 1/2 the volume of the total QA manual. Consumers Power Co. stated that these attachments resulted from the recent upgrading conducted by U.S. Testing and is a unique situation. The requirements for incorporating

changes to the manual had been changed from every 6 months to every 3 months. The NRC stated that the requirements for incorporating changes should not depend solely on frequency, but should also consider the size of the change. Consumers Power Co. agreed and indicated they would follow up on this concept.

6. With reference to Item 71-10, the NRC asked Consumers Power Co. if the alert levels for delta 1 and 2 were being raised. Consumers Power Co. indicated that they were not. This item dealt with the hypothetical question of what could be done if all other actions did not result in decreasing the differential settlement. Consumers Power Co. did not intend to take any action with respect to changing alert levels without informing the NRC.

Required Action

No actions are required for the Assessment Team from this meeting.

The following item remains open for Consumers Power Co.:

1. The NRC and Consumers Power Co. will confer on the crack mapping survey data presented during February.

END

MINUTES OF THE MEETING ON FEBRUARY 9, 1984

STATUS OF CONSTRUCTION IMPLEMENTATION OVERVIEW (CIO) PROGRAM

Purpose

To discuss Third Party Overview activities of Stone & Webster (S&W) and problems encountered regarding the Construction Completion Program (CCP) during January 1984.

Summary

Mr. A.P. Amoruso, Project Manager for the CIO Program, presented a summary of Program activities for January 1984. The following topics were covered:

° Assessment Activities

Opportunities to assess the Construction Completion Program (CCP) continued to be limited during January because of stop-work orders that had been issued to control the situation while resolving concerns about FCR/FCN field change documents. Although documents relating to several disciplines were released during the month, statusing and verification work was conducted in a deliberate manner to ensure that the startup of the CCP went smoothly. Activities that were assessed included the FCR/FCN Resolution Program, document control corrective actions, Phase I statusing and verification, training presentations, and training records. Summaries of these activities follow:

- FCR/FCN Resolution Program. Architectural, civil, electrical, and instrumentation/control documents were cleared through the three phases of the Resolution Program and released for Phase I work. Mechanical documents were in the process of being checked through the resolution phase of the Program at the end of January. The documents have since been cleared and released for Phase I work.

- Document Control Corrective Actions. A corrective action program for problems identified during the resolution of FCR/FCNs was implemented by Consumers Power Company. Short-term items were checked and determined to be in accordance with the objectives of this program.
- Phase I Statusing and Verification. Statusing and verification of coatings on concrete and structural steel were checked. The statusing was accomplished in accordance with CCP procedures, and verifications were conducted in accordance with applicable quality control instructions (PQCIs). People involved in the activities had been trained in accordance with the CCP training program, and documents being used were in agreement with applicable registers.
- Training Presentations. Six training presentations were evaluated. These presentations followed lesson plans and met training objectives.
- Training Records. Some 2100 training records, representing some 290 people, were checked for administrative discrepancies that had been identified previously. Results of these checks were satisfactory.

In two of the three areas outside the CCP but within the scope of the CIO; namely, the Nuclear Steam Supply System (NSSS) and the Heating, Ventilation, and Air Conditioning System (HVAC), assessment opportunities were limited by the small amount of work taking place. In the third area, the Spatial System Interaction Program (SSIP), the analyses of five interactions were witnessed. These analyses were determined to have been performed in accordance with governing procedures.

° CIO Items, Nonconformances, and Hold Points

Nine CIO items were identified during January. These items follow:

- Need to review the plan for resuming diesel generator work to ensure

that related documents have been processed through the FCR/FCN Resolution Program.

- Request for CCP training procedures for Consumers Power Company people.
- Need to verify adequacy of corrective actions for document control problems.
- Request for Independent Design and Construction Verification (IDCV) Reports.
- Request for controls that will be used with checklists which do not contain all attributes of governing procedures.
- Request for documents relating to the development of the NRC Commitment Tracking Program.
- Recommendations to improve control of Status Assessment Prints (SAP) and Work Prints (WP).
- Need to resolve the inconsistency between specifications C305 and C306 regarding spacing between anchor bolts of different diameters.
- Need to review practices at the Consumers Power Company document distribution center for decontrolling change documents and receiving uncontrolled documents and to proceduralize those practices if appropriate.

Four items were closed during January. Two of the items had been opened in January and two in previous months. Requests for training procedures and IDCV reports were closed when the material was provided. A question about the future use of FCNs for safety related systems was closed when information was provided that FCNs would continue to be used for those systems. The item addressing plans to use checklists that do not contain all attributes of governing procedures was closed so that a new item could be issued when a reply to the first item did not resolve concerns.

Six nonconformances identified by the CIO Program were open at the end of January. These nonconformances follow:

- Administrative discrepancies noted in training records for CCP supporting groups.
- Inadequate training levels prescribed in the Construction Team Training Matrix.
- Inconsistencies in marking drawings with the retirement symbol.
- Discrepancies noted in civil documents.
- Discrepancies noted in electrical FCNs.
- Transmittals for safety related vendor documents not being sent as required to the Midland Project Quality Assurance Department (MPQAD) and the Project Supplier Quality Representative.

One nonconformance was verified corrected and closed during January. That nonconformance involved administrative discrepancies in the training records of CCP team members.

Five Hold Points established by the CIO were open at the end of January. These Hold Points follow:

- Development of a vendor equipment verification program before the start of Phase II of the CCP.
- Evaluation of the management review of the results of Phase I activities before the start of Phase II of the CCP.
- Upgrading the level of training in five elements of the Construction System Team Training Matrix before people involved are used in the statusing part of the CCP.
- Verification of Phase I and II evaluations of the FCR/FCN review before stop-work orders are lifted.

Three additional Hold Points were established and released during January. These Hold Points controlled the use of civil and architectural documents until the adequacy of corrective actions for document control problems was verified.

° Highlights of January

- FCR/FCN Resolution Program

Details of the Resolution Program were discussed at the January meeting. Since that meeting, a corrective action program for document control problems has been initiated, and the two nonconformances that addressed discrepancies concerning architectural and civil documents have been closed. Architectural, civil, electrical, and instrumentation/control documents have been cleared through the three phases of the Resolution Program and have been released for work. Since January, mechanical documents have also been cleared and released. With the exception of followup checks, the FCR/FCN Resolution Program has been completed.

- Document Control Corrective Actions

Document control problems that were discussed at the January meeting were caused by clerical errors and an unfamiliarity of some people with the procedural details of a complex document control system. Both short and long term corrective actions have been implemented by Consumers Power Company to improve the situation. Short term items include:

- Increased supervision.
- Reduced number of distribution points and distributed documents.
- Increased verification of registers.
- Improved communications between field document control center and users.
- Specialized training.

Long term items include:

- Establishing the minimum number of distribution points needed on the site.
- Centralizing functional control of document distribution points.
- Establishing a single register for document status.
- Improving accuracy and usefulness of the field document distribution list.
- Improving document control procedures.

Short term actions have been assessed. The steps taken should improve document control on the site. Gains made by these actions, however, can be diluted as construction activity increases. Therefore, checks on progress being made in the document control area will continue and results reported at monthly meetings. The schedule for accomplishing long term actions is expected to be promulgated in the middle of February.

- CCP Status Assessment and Physical Verification

Checks were conducted to verify that statusing and verification parts of the CCP were ready to start. For statusing, the organization, procedures, training of CCP Teams, and preliminary walkdowns were checked. For verification, the training of MPQAD inspectors was reviewed and checklists for CIO inspectors were prepared. Results of these checks and appropriate corrective actions have been discussed during previous monthly meetings. Status assessment and physical verification of Module 340, the containment area of Unit 2, began in late December in the architectural area and in January for the civil, electrical, and instrumentation/control disciplines. CIO monitored status assessment activities related to those disciplines and checked the adequacy of verifications of completed work by MPQAD through sample

inspections. Activities to date have been minimal with no significant findings. Activities are expected to increase in the latter part of February and March, especially now that the mechanical discipline has been released.

° Miscellaneous Item

- CIO Staff

The CIO staff remained at 29 but is expected to increase by a few people during February in preparation for increased CCP activity.

Action Item from Last Meeting

- ° Consumers Power Company (CPCo) had one action item, which was to discuss the condition of a cable that was in contact with nails in a board which was lying in a cable tray. Mr. R.A. Wells, CPCo, stated that when the cable was inspected, the board with the nails has been removed and only a minor scratch was seen on the cable jacket. Based on this inspection, the nonconformance report was closed. After further discussions with the CIO, another nonconformance was issued. This nonconformance recommends to engineering that the condition of the cable be verified and appropriate repairs or replacement be made.

Questions and Answers

- ° Mr. B.L. Burgess, NRC, asked what changes would be made to the document control system from CIO recommendations.
- Mr. Amoruso stated that recommendations had been made regarding status assessment prints (SAPs) and work prints (WPs). Those recommendations included documenting the training program for people involved, conducting practice runs before starting up, and documenting the steps involved in verifying registers.

- ° Mr. R.N. Gardner, NRC, asked what electrical areas of Phase I of the CCP had started.

Mr. D.L. Quamme, CPCo, stated that preliminary work had begun on raceways in Module 340.

- ° Mr. Burgess asked about the transfer of responsibilities from the CIO to the Remedial Soils Team for documents at soils stations.

Mr. J.E. Karr, CIO, stated that the areas that were passed to the Remedial Soils Team for continued monitoring included operations at field stations after the document distribution process was reactivated, retraining of people involved, and distribution of documents to vendors.

Mr. Burgess asked if the CIO would continue to track exceptions to the FCR/FCN Resolution Program.

Mr. Karr stated that the CIO would track exceptions.

- ° Mr. Gardner, NRC, asked about the nature of comments about the FCR/FCN Resolution Program that were made by Mr. Doherty, S&W, during a visit. The comments had been categorized as unsubstantial in a CIO weekly report.

Mr. Karr stated that the comments included changing the title on an organizational chart, correcting an organizational title in a procedure, and clarifying a statement on the responsibilities of project engineers.

- ° Mr. J.J. Harrison, NRC, asked if the Public had any questions. The following items were discussed:

- Sending new crack mapping information to the Atomic Safety and Licensing Board.
- Initial findings of the Quality Verification Program.
- Basis for CIO staffing.
- Electric cable reinspection program.
- Improvements to crack monitoring program.

Action Items

None



STONE & WEBSTER MICHIGAN, INC.

P.O. Box 2325, BOSTON, MASSACHUSETTS 02107

PRINCIPAL STAFF			
RA		DRP	
D/RA		DE	
A/RA		DRMSP	
RC		DRMA	
PAO		SCS	
SGA		ML	
ENF		File	

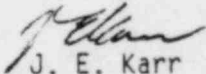
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February 9, 1984

Mr. J. J. Harrison
Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Subject: DOCKET NO. 50-329/330
MIDLAND NUCLEAR COGENERATION PLANT
RESUMES AND AFFIDAVITS FOR CIO STAFF MEMBERS
SERIAL NO. SWMCP-030

Attached are the signed affidavits and resumes for Mr. G. R. Fotiades and Ms. E. Kiehner. These personnel have been assigned to the CIO staff at the Midland Nuclear Plant.


J. E. Karr
CIO Program Manager

Enclosures

JJR/nl

cc: CIO General Files

FEB 13 1984

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Figure 3-1

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

ATOMIC SAFETY AND LICENSING BOARD

In the Matter of
CONSUMERS POWER COMPANY

(Midland Plant, Units 1 and 2)

Docket No. 50-329 OM
50-330 OM

Docket No. 50-329 OL
50-330 OL

AFFIDAVIT OF GEORGE FOTIADES

My name is George Fotiades. I am employed by Stone & Webster
Michigan, Inc. as Procurement Quality Assurance Engineer

I am currently assigned to the team which is proposed to conduct a Third Party Construction Implementation Overview at the Midland Nuclear Plant site. Prior to being given this assignment, I have never worked on any job or task associated with the Midland Project, or any job or task for or on behalf of Consumers Power Company or Bechtel relating to issues that I will be reviewing. I have never been employed by Consumers Power Company or Bechtel. I do not own any shares of Consumers Power Company or Bechtel stock. Mutual funds or other funds in which I may have a beneficial interest, but over which I have no control, may own shares of Consumers Power Company or Bechtel stock, of which I am unaware. A list of such funds in which I have an interest are attached. I have no relatives which are or have been employed by Consumers Power Company or Bechtel.

Signed George R. Fotiades

Sworn and Subscribed Before Me This 31st Day of January 1984

Patricia A. Puffer
NOTARY PUBLIC

Notary Public Commission Expires July 4, 1986

My Commission Expires 3-4-86

8402150331

Figure 3-1

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

ATOMIC SAFETY AND LICENSING BOARD

In the Matter of
CONSUMERS POWER COMPANY

(Midland Plant, Units 1 and 2)

Docket No. 50-329 OM
50-330 OM

Docket No. 50-329 OL
50-330 OL

AFFIDAVIT OF ELAINE KIEHNER

My name is Elaine Kiehner. I am employed by Stone & Webster Michigan, Inc. as Assistant Office Engineer.

I am currently assigned to the team which is proposed to conduct a Third Party Construction Implementation Overview at the Midland Nuclear Plant site. Prior to being given this assignment, I have never worked on any job or task associated with the Midland Project, or any job or task for or on behalf of Consumers Power Company or Bechtel relating to issues that I will be reviewing. I have never been employed by Consumers Power Company or Bechtel. I do not own any shares of Consumers Power Company or Bechtel stock. Mutual funds or other funds in which I may have a beneficial interest, but over which I have no control, may own shares of Consumers Power Company or Bechtel stock, of which I am unaware. A list of such funds in which I have an interest are attached. I have no relatives which are or have been employed by Consumers Power Company or Bechtel.

Signed E. Kiehner

Sworn and Subscribed Before Me This 3rd Day of February 1984

Patricia A. Puffer
NOTARY PUBLIC

PATRICIA A. PUFFER
Notary Public, Bay County, MI
My Commission Expires Mar. 4, 1986

My Commission Expires 3-4-86

~~8402150338~~

January 1984

FOTIADES, GEORGE R.

ENGINEER
PROCUREMENT QUALITY
ASSURANCE DIVISION

EDUCATION

Trenton State College, Newark State College, and Ocean County College -
Courses leading toward Bachelor of Arts degree

EXPERIENCE SUMMARY

Mr. Fotiades has 10 years of experience in the engineering industry. Currently, as PQA Engineer for Tampa Electric Company's Gannon Coal Conversion Project and Big Bend Coal Handling and Blending System Project, he is responsible for reviewing specifications and potential suppliers of equipment, and for providing a liaison between the responsible engineering disciplines, SWEC District offices servicing client concerns, and the client representatives who interface regarding QA matters.

Since joining Stone & Webster Engineering Corporation in 1973, he has been assigned to a 940-MW BWR plant project as a Materials Coordinating Engineer and as a Quality Assurance Engineer.

Prior to joining Stone & Webster Engineering Corporation, Mr. Fotiades was employed by the General Cable Corporation, NJ, as a Sale Service Manager, Rubber Division.

DETAILED EXPERIENCE RECORD
FOTIADES, GEORGE R. 31583

STONE & WEBSTER ENGINEERING CORPORATION, CHERRY HILL, NJ (July 1973 - Present)

Appointments:

Engineer - May 1981
Engineering Associate - July 1978
Material Coordinating Engineer - July 1973

Procurement Quality Assurance Division Staff (March 1982 - Present)

As PROCUREMENT QUALITY ASSURANCE ENGINEER, primary responsibilities are for Tampa Electric's Gannon Coal Conversion Project and Big Bend Coal Handling and Blending System Project. Directly responsible for establishing a liaison between the responsible engineering disciplines, the Client, and the various SWEC district offices relating to Quality Assurance concerns. Reviews prospective bidder listings to determine quality histories of potential suppliers, reviews vendor QA manuals for compliance, and partakes when requested in vendor/subvendor surveys and audits. Responsible for project QA budget forecast and man-hour loading requirements. Other responsibilities include specification reviews, inspection plan writeup, and familiarization with industry-related codes and standards.

River Bend Station - Unit 1, Gulf States Utilities Company (July 1978 - March 1982)

As ENGINEER for Project Quality Assurance (July 1978 - March 1982), responsible for coordinating services for project-related QA activities. As a member of the QA Staff, major responsibilities centered upon providing a liaison between engineering disciplines, the Client, and Procurement Quality Assurance (PQA) personnel in field assignments relating to these project activities.

Also involved in the Project Procurement Cycle review system, which reviewed potential suppliers of major and minor equipment. Emphasis was concentrated upon the Quality Assurance capabilities of these potential suppliers. When requested, would partake in scheduled surveys and audits of potential and existing suppliers of project-related equipment and materials.

Reviews of supplier QA manuals and addenda and the drafting of QA-related correspondence were also included in responsibilities while a member of the River Bend staff. A working experience with federal codes and industry-related standards was included in this capacity. Responsible for PQA manpower staffing and periodic requirement reviews while serving with the QA staff.

As MATERIAL COORDINATING ENGINEER for the Expediting Division (July 1973 - July 1978), responsible for serving a number of SWEC client interests that centered on the statusing and expediting field involving various vendors. Prime function was to ascertain vendor progress in meeting related client-scheduled objectives. Also instructed new SWEC personnel and provided them with a familiarization to inplant expediting, fabrication, and procedure systems. Responsible for servicing radwaste filter systems, pump manufacturers, valve manufacturers, piping fabricators, control panel assemblies, cable manufacturers, security systems, heat exchangers, indicators, relays, and condensation cleaning systems.

GENERAL CABLE CORPORATION, PERTH AMBOY, NJ (June 1965 - July 1973)

As SALE SERVICE MANAGER for the Rubber Mill Division (1971 - July 1973), responsible for customer interest, maintaining quoted delivery schedules, and establishing manufacturing priorities. Also had direct sales experience and actual in-plant production experience involving cable manufacturing.

As PRODUCTION CONTROL SUPERVISOR in the rubber mill (1968 - 1971), responsible for scheduling plant production work, for purchasing bare wire, and for adhering to rubber mill compound requirements.

As MANAGEMENT TRAINEE (1965 - 1968), responsible for diversified activities to support plant requirements while part of the management training program. This involved becoming acquainted with laboratory operations within the Perth Amboy, NJ organization.

KIEHNER, ELAINE

February 1984

ASSISTANT OFFICE SUPERVISOR
CIO - MIDLAND, MI

EDUCATION

Burlington County Community College, Browns Mills, New Jersey - Associate of Arts - 1971

EXPERIENCE SUMMARY

Ms. Kiehner joined Stone & Webster Engineering Corporation (SWEC) in December 1976 as Junior ATS Operator in River Bend Station's Word Processing Center at the Cherry Hill Operations Center. Since then she has held the positions of Senior ATS Operator and Senior Automated Typist.

In April 1979 Ms. Kiehner was appointed Engineering Assurance/Quality Assurance Division Administrative Assistant, accepting the increased responsibility of providing administrative support to the divisions' managers. In August 1982 she joined SWEC's Field Quality Control (FQC) Division at the Clinch River Breeder Reactor Plant Project as Administrative Aide. In support of the Senior FQC Site Representative her responsibilities were focused on organization rather than maintenance of all FQC documentation, including coordinating activities of the clerical support group.

In February 1984 Ms. Kiehner was appointed Assistant Office Supervisor for SWEC's Construction Implementation Overview at the Midland Nuclear Plant. While under general direction in this capacity she is responsible for supervising the activities of office services personnel and assisting in coordination of day-to-day office activities.

Before joining SWEC, Ms. Kiehner worked as a sales representative for a realty company where she acquired knowledge of client interface. Prior to that, she held various clerical positions including secretary/receptionist, CRT/telephone operator and payroll clerk, affording her 12 years office experience, encompassing 7 years with various word processing equipment.

NAME: Kiehner, Elaine

SOCIAL SECURITY NO. 139-42-5882

QUALIFICATION (LIST MOST RECENT CERTIFICATION FIRST)

COMPANY	TYPE OF CERT.	LEVEL (IF GIVEN)	CERT. BY TEST		CODE, SPEC. DOCUMENTATION	GOVERNING AGENCY	DATE RECEIVED	WAS CERT. DOCUMENT GIVEN?	
			YES	NO				YES	NO
N/A									

NOTE: INCLUDE COPIES OF ALL CERTIFICATION DOCUMENTS, CERTIFICATES, CARDS, ETC

EDUCATION: SCHOOLS, COLLEGES, TRAINING COURSES, (9A) ETC.
(LIST GENERAL EDUCATION FIRST)

NAME OF SCHOOL AND LOCATION (IF GIVEN BY EMPLOYER SPECIFY COMPANY NAME)	DEGREE GRANTED AND MAJOR, OR TITLE OF COURSE	DATE COMPLETED	NO. OF HOURS	GRADE
Moorestown Sr. High School Moorestown, NJ	College Prep.	6/69	-	B
Burlington County Community College Browns Mills, NJ	Associate of Arts Major: Education (one semester of secretarial science)	6/71	64	2.50
IBM Memory Typewriter Training School Cherry Hill, NJ (sponsored by SWEC)	IBM Memory Typewriter Training	3/77	24	sat.
A.B. Dick Training Center King of Prussia, PA (sponsored by SWEC)	A.B. Dick Magna I/II Electronic Word Processing Training Course	11/78	24	sat.
Tennessee Valley Authority Knoxville, TN (sponsored by SWEC)	A.M. Jacquard Word Processing Course	8/83	24	sat.
SWEC	Various seminars & CED courses in continu- QA/QC and administrative functions ing since 12/76		-	-

NOTE: FOR SPECIFIC TRAINING COURSES, INCLUDE COPIES OF ALL COURSE
OUTLINES, CERTIFICATES, DIPLOMAS, ETC., IF GIVEN.

NAME: Kiehner, Elaine

SOCIAL SECURITY NO. 139-42-5882

ST EQUIPMENT WHICH YOU HAVE OPERA.

RADIOGRAPHIC	ULTRASONIC	MAG. PARTICLE	LIQUID PENETRANT	EDDY CURRENT	OTHER (M.E.T.E., E.T.C.)
N/A					

ENGINEERING REGISTRATION

STATES AND LICENSE NUMBERS	EIT EXAMINATIONS	DISCIPLINE
	N/A	

MEMBERSHIP IN PROFESSIONAL SOCIETIES

N/A

PUBLICATIONS

N/A

REMARKS:

Experience at SWEC (cont'd.):

<u>Title</u>	<u>Job Description</u>	<u>From</u>	<u>To</u>
Admin. Aide (FQC) (cont'd.)	exercising particular care in protection of confidential information; compiled data performing necessary calculations to prepare routine reports, charts, & graphs; coordinated activities of lower rated clerical support personnel to meet work load demands, reviewing work performed & advising where necessary.		
Administrative Asst. (EA/QA)	With guidance from the divisions' managers, responsible for distribution control of 40 manuals for 2500 employees & coordination of Radiation Exposure Authorization documentation; composition of related correspondence. Assisted in coordination of procedure review, consolidating comments & incorporating into procedure. Coordinated (within clerical group of three) typing, distribution, logging, & filing of all EA/QA correspondence. Established division's filing systems. Trained new clerks.	3/79	3/82
Sr. Automated Typist	Typed & revised correspondence utilizing IBM Mag A/I/II, A.B. Dick Magna I/II, dictaphone & TWX; maintained mag card & correspondence files/logs; trained new typists in the performance of these duties.	1/78	3/79
Sr. ATS Operator	Responsible for input & revision of specs. & addenda, utilizing an IBM 360 Administrative Terminal System; send, receive & log TWXs; assisted in training new operators.	4/77	12/77
Jr. ATS Operator	Responsible for input & revision of specs. & addenda, utilizing an IBM 360 Administrative Terminal System.	12/76	3/77

The foregoing information is true insofar as its accuracy and complete to the best of my knowledge.

SIGNATURE

E. Kiehner

DATE

2-9-84



STONE & WEBSTER MICHIGAN, INC.

P.O. Box 2325, BOSTON, MASSACHUSETTS 02107

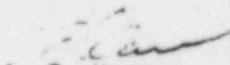
Mr. D. L. Quamme
Consumers Power Company
Midland Nuclear Plant
3500 E. Miller Road
Midland, Michigan 48640

February 7, 1984

Subject: Docket No. 50-329/330
Midland Plant - Units 1 and 2
Overview of the Construction
Completion Program
Serial No. SWMCP-028

Re: Midland Energy Center
Training of Construction Personnel
Reference CPCo Correspondence
CSC-7201 1/20/84 and CSC-7275 2/2/84

As requested in your transmittal number CSC-7289 of 2/6/84, please be advised that CIO has performed sampling inspections of the Construction Training Records of those personnel noted in the attachments of the above referenced correspondence. The results of the sampling inspection were satisfactory. Personnel listed on the attachments are cleared to perform status assessment.


J. E. Karr
CIO Program Manager

JEK/nl

cc:
JGKepler, US NRC Glen Ellyn, IL
JHarrison, US NRC Glen Ellyn, IL
RJCook, US NRC Midland (site)
RAWells, CPCo Midland (site)
RBKelly, S&W
APAmoruso, S&W

~~8402150248~~

FEB 1 1984



STONE & WEBSTER MICHIGAN, INC.

P. O. Box 2325, BOSTON, MASSACHUSETTS 02107

Mr. D. L. Quamme
Consumers Power Company
Midland Nuclear Plant
3500 E. Miller Road
Midland, Michigan 48640


February 7, 1984

Subject: Docket No. 50-329/330
Midland Plant - Units 1 and 2
Overview of the Construction
Completion Program
Serial No. SWMCP-027

Re: FCN's for 'Q' Work
CPCo Transmittal No. CSC-7176

CIO has reviewed the revised response to CIO Item Number 036 contained in the subject transmittal and considers it satisfactory. Please attach this letter to your copy of CIO Item Notification Number 036.

This closes CIO Item Number 036.


J. E. Karr
CIO Program Manager

FB/nl

cc:
JGKepler, US NRC Glen Ellyn, IL
JJHarrison, US NRC Glen Ellyn, IL
~~RJCook~~, US NRC Midland (site)
RAWells, CPCo Midland (site)
RBKelly, S&W
APAmoruso, S&W

~~8402150354~~