



L.K. Comstock Engineering Company, Inc.

A COMSTOCK GROUP COMPANY

Equipment
Perry Nuclear Power Plant

October 11, 1982

Richard L. Bower
Q. C. Manager

Task Force #40

Dear Sir,

A review of all Equipment Packages was performed to evaluate the major concerns expressed by the Task Force during and after completion of their equipment package review (i.e. Task Force #32 dated 8/6/82 and Task Force #34 dated 8/13/82, Attachments 1 & 2) regarding Inspectors performing inspections outside the area of their certifications.

The intent of this review was to evaluate the entire situation as to the full extent of the problem so that corrective action can be implemented immediately.

All Inspector signoffs related to Equipment Inspections were evaluated to the following criterion:

Were they certified in that specific area on the date indicated, and if not, was there a certified Level II signature or initials present attesting to the acceptability of the installation and documentation.

The uncertified inspections performed fell into 3 major areas.

1. Uncertified Installation Inspections performed - Hardware (Checklists, N.R.'s, Hilti, Faceving, etc.)
2. Uncertified implementation inspections performed - Maintenance Verification, Inspection Reports, Megger Form Review, etc.
3. Certified Level I Inspectors - no co-signature of Level II Inspector.

NOTE: It should be noted that L. K. Comstock policy in the past was to have the Inspector Trainee complete the Inspection Report as a part of training under the direction of a certified Level II, who would sign the report also. This policy appears to have been abused in the case of W. G. Morris, simply because of the sheer numbers of Inspection Reports authored (initialed or signed) during this equipment receiving, installation time period (1/81 through 4/81). These inspections were not included in this report in the uncertified category but should be analyzed for potential credibility problems at turnover.



Task Force #40

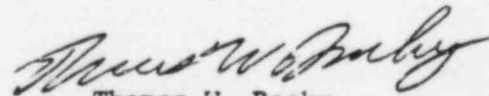
Attachment 3 to this report lists all equipment numbers, inspectors, type of inspections involved and the date of the inspection documentation.

In closing, it is my recommendation that all of these specific inspections be reviewed again, by Quality Control, and the following corrective action implemented.

1. All Uncertified Installation Inspections that are verifiable should be totally re-inspected and documented as such on the appropriate checklist. The specific instances should also be recorded on a Generic I.R. to document corrective action and to clarify existing documentation. Corrective action should also include training. (Reference Item #3 below)
2. All Uncertified Installation Inspections not verifiable should be documented on a Nonconformance Report.
3. All Uncertified Implementation Inspections should be documented on an Inspection Report for corrective action, which should include detailed training of all present Q.C. Personnel stressing the importance of their signature on Inspection Documentation, performing only work certified in, and Level II co-signature requirements of ANSI N45.2.6.
4. All Level I signatures and documentation should be reviewed and co-signed by a Level II certified in the area of review.
 - 4A. A standardized method of Level II co-sign should be established and adhered to, with no exception.

It is my strong recommendation, made in an effort to forestall future problems of this nature, that the Level II signature be made independently of the review signature currently being utilized. (i.e. The Level II co-sign and date should be on the same line as the Level I.)

If there are any questions concerning the content of this report, please feel free to contact the undersigned.


Thomas W. Packy
Task Force

TWP:sad

W/Attachments

cc: R. Marino
T.F. File



L.K. Comstock Engineering Company, Inc.

A COMSTOCK GROUP COMPANY

August 6, 1982

William G. Ladochy
Eastern Regional Manager, QA/QC Services
L. K. Comstock Engineering Co., Inc.
920 Fort Duquesne Blvd.
Pittsburgh, PA 15222

Subject: Concerns as a Result of the
Review of the Equipment
Installation Packages

Bill,

The following are major concerns as a result of a partial review of
Equipment Installation Packages performed by the Task Force.

Concern 1A. L. K. Comstock inspectors have been performing and signing
for acceptance of inspections outside of their areas of cert-
ification. As a result of these findings all personnel and
inspections performed prior to January 1, 1982, must be held
in suspect.

This is to include Switchgear, Termination Cabinets, Rotating
Equipment and Penetrations #1R72-S001 thru 1R72-S029. A par-
tial list of examples is as follows:

- a. Brian Palmer has made inspections on the Class 1E Switch-
gear and Termination Cabinet Installation Checklist (Form
#32). He was never certified to perform Equipment Instal-
lation Inspections. Example: 1H13-P706, P710, P711, P712,
P713, P714, and P715.
- b. G. Young has verified inspections on the Class 1E Switch-
gear and Termination Cabinet Installation Checklist (Form
#32) before his certification date of 4-7-81. Material
Receiving Report indicate verification of Material Received
before he was employed. Example: 1H13-P706, P707, P710,
P711, P712, P713, P714, and P715.
- c. G. Hagler has not been certified to perform Equipment Instal-
lation but has performed inspections and documented such on
Form #32. Example: 1H13-P710, P711, P712, P713, and P714.
- d. L. Samosky has documented stud welding on Form #100 but has
never been certified to Stud Welding. Example: 1H13-P706,
P710, P711, P712, and P713.
- e. M. Bires was not certified to Level II Stud Welding on



Concern 1A. e Continued

- 2/14/80. There is no co-signature.
Example: 1H13-P707, and P715.
- f. H. Hanson was only a Level I and has signed Inspection Reports (Form #118) without a Level II co-signature.
Example: 1H13-P711, P712, P713, and P715.
- g. Phil Romano inspected Class 1E Switchgear on 2/11/81 (Form #32). He was not certified until 4/13/81 and only as a Level I.
Example: Package OR24-S023.
- h. Lucille Cleary received material since 8/13/80 (Form #39A). She was not certified until 2/23/81 and then as a Level I.
Example: Package 1H22-P030.
- i. Brian Palmer signed off Form #32 Class 1E Switchgear and Termination Cabinet Installation Checklist on 1/8/80. He was not certified for Equipment Installation. Clarence Hart co-signed this form. Additional examples available.
- j. R. L. Coffman co-signed Inspection Report #356 for Phil Romano who was not certified on 2/11/81. He was not certified himself until 4/7/81.
- k. Approximately six (6) people were certified out of 22 people who were signing off various Inspection functions and were not certified to do so at that particular time.

This partial list of uncertified individuals was taken from the personnel files and based on the information available. The necessary Site approval letter for certification was not noted in most individual personnel files at the time of review for specific activity certification

- 1B. The 1R24 packages are in the process of being turned over to Site and were reviewed for Validity of Inspections prior to transmittal from the Task Force. The results of this review also indicated inspections performed by individuals not certified to specific activities. The documentation in question consists of Nonconformance Reports, Inspection Reports, Material Receiving Reports and Checklists for documenting electrical equipment installation.
- 1C. In reference to electrical penetrations, 1R72-S001 - S029, all inspections performed and documented on form #39A, Material Receiving Reports, and Form #116 A & B, Installation Checklists have been generated by inspectors who were not certified on the date the inspections were performed.



- Concern 2A. There appears to be no standardized method to filling out Form #21, Insulation Resistance/Continuity Test Report. The forms have been altered by the craft to suit their own interpretation. Often, the results are indecipherable.

SP 709-4549-00 Section 1:05.10 Control of Inspections and Tests Paragraph 1 states:

1. A program of inspections and tests shall be prepared for all activities affecting quality, and shall identify those inspection and tests points to be verified for conformance to documents such as instructions, procedures, drawings, specifications, etc., that are used to perform the activity. The inspection and tests shall be performed by individuals other than those who performed the activity being inspected or tested and who do not report to the supervisor who directed the original WORK. There shall be an adequate number of inspections and tests performed to assure that all operations of the activity fulfill the predetermined quality requirements. The CONTRACTOR shall describe the system which he will utilize to identify, implement and verify HOLD POINTS, or WITNESS POINTS which will assure that inspections and tests are performed as required.

Paragraph 1:05.10 3.C states:

3. c. What written instruction the person performing the inspections and tests will be working to, including the specific acceptance criteria, tolerances, etc., which must be verified.
- 2B. Craft has been using the infinity symbol (∞) extensively. The Procedure states that the reading should be in ohms, megohms, etc. Procedure 4.3.18, Meggering and Continuity Testing, paragraph 3.1.9 states: "A record shall be made and kept for all tests governed by this procedure. The record must indicate the following: (Use Form #21, Attached)"
- 3.1.9 states: "Test Measurements obtained, with units identified (i.e. ohms, megohms, etc.)."
- 3.2.1, under acceptance criteria states:
- "Unless otherwise specified by the Project Organization Engineer, values in Figure 15 (Page 12) shall be used."

It is a requirement of Spec 33-4549-00 that 100% of all Class 1E and Non Class 1E cables have a Megger/Continuity Test and the results be documented: This activity is performed solely by the construction department. (Testing and Documenting). The Quality Control Dept. has accepted these test results in accordance with procedure 4.3.18 prior to this procedure being approved.



Installations and as a result of these findings, all inspections performed prior to 1/1/82 should be considered invalid and the lack of certification of the individuals performing these inspections should be addressed immediately. Additionally, all Megger/Continuity Tests should also be considered invalid, as a result of the acceptance of test results without an approved procedure.

Also, all inspections presently being performed and all personnel certifications should be reviewed at this time because of the fact that some of the inspectors identified as being not certified in specific activities are currently employed by L. K. Comstock at the Perry Site.

Cordially,

V. A. Eichler
Leader, Task Force

cc: R. E. Marino
L. G. Seese
D. Friend
R. L. Bower
J. Zilka, ECI



Perry Nuclear Power Plant

L.K. Comstock Engineering Company, Inc.

A COMSTOCK GROUP COMPANY

August 13, 1982

Subject: Identification of Concerns as
a Result of the Electrical Equip-
ment Documentation Review performed
by the LKCE Task Force

The following is a summary of the five (5) major areas of concern identified as a result of the Equipment Package Review conducted by the Task Force. Also, a list of Generic Items is also attached. A written response to the following concerns is requested.

Cordially,

V. A. Eichler
Leader, Task Force

VAE/bb

cc: R. E. Marino
W. G. Ladochy
R. L. Bower
L. G. Seese
D. G. Friend
J. R. Zilka, ECI
File

CONCERNS AS A RESULT OF ELECTRICAL EQUIPMENT INSTALLATION REVIEW

- Concern #1 L. K. Comstock Inspectors have been performing and signing for acceptance of inspections outside of their areas of certification. This is to include Switchgear, Termination Cabinets, Rotating Equipment and Penetrations #1R72-SC01 thru 1R72-S029. A list of examples is as follows:
- A. Brian Palmer has made inspections on the Class 1E Switchgear and Termination Cabinet Installation Checklist (Form #32). He was never certified to perform Equipment Installation Inspections. Example: 1H13-P706, P710, P711, P712, P713, P714, and P715.
 - B. G. Young has verified inspections on the Class 1E Switchgear and Termination Cabinet Installation Checklist (Form #32) before his certification date of 4-7-81. Material Receiving Reports indicate verification of material received before he was employed. Example: 1H13-P706, P707, P710, P711, P712, P713, P714, and P715.
 - C. G. Hagler has not been certified to perform Equipment Installation but has performed inspections and documented such on Form #32. Example: 1H13-P710, P711, P712, P713, and P714.
 - D. L. Samosky has documented Stud Welding on Form #100 but has never been certified to Stud Welding. Example: 1H13-P706, P710, P711, P712, and P713.
 - E. M. Bires was not certified to Level II Stud Welding on 2/14/80. There was no co-signature. Example: 1H13-P707, and P715.
 - F. H. Hanson was only a Level I and has signed Inspection Reports (Form #118) without a Level II co-signature. Example: 1H13-P711, P712, P713, and P715.
 - G. Phil Romano inspected Class 1E Switchgear on 2/11/81 (Form #32). He was not certified until 4/13/81 and only as a Level I. Example: Package OR24-S023.
 - H. Lucille Cleary received material since 8/13/80 (Form #39A). She was not certified until 2/23/81 and then as a Level I. Example: Package 1H22-PO30.
 - I. Brian Palmer signed off Form #32 Class 1E Switchgear and Termination Cabinet Installation Checklist on 1/8/80. He was not certified for Equipment Installation. Clarence Hart co-signed this form. Additional examples available.
 - J. R. L. Coffman co-signed Inspection Report #356 for Phil Romano who was not certified on 2/11/81. He was not certified himself until 4/7/81.
 - K. R. L. Coffman co-signed Insulation Resistance/Continuity Test Report (Form #21) with Zack Space on 4/30/81. Mr. Space was not certified in any activity until 3/26/82.
 - L. Ron Gillette signed Form 39A - Material Receiving Report - on 6/19/81. At this time he was certified as a Level I and the report was initialed only, not co-signed and dated.



Concern #1 Continued

- M. M. Imhoff verified Item #1 on Form #32 for Installation of Equipment on 8/8/80. He has never been certified in Equipment Installation.
- N. J. Rufft signed for acceptance of welds on Form #107 on 8/11/80. He was certified in Visual Inspection as a Level II on 8/26/80.
- O. T. Ross and C. Skarupa co-signed verification of Item #2 of Form #32 on 2/28/80. Neither one was certified for Equipment Installation.
- P. P. Romano and B. Erwin co-signed an Insulation Resistance/Continuity Test Report for verification of FSMR Requirements date 3/24/82. Mr. Erwin was certified Level II on 3/26/82 and Mr. Romano was certified Level II on 5/4/82.

This partial list of uncertified individuals was taken from the personnel files and based on the information available. The necessary Site approval letter for certification was not noted in most individual personnel files at the time of review for specific activity certification. The certification dates referenced are L. K. Comstock only.

Spec-709-4549-00, Dated 5/24/79, Paragraph 1:05.2-2, page 7, states in part "Notification of all new or upgraded qualifications/certifications of Contractor QA/QC and NDE personnel assigned to the Site shall be submitted to the Owner's QA Element for review and concurrence prior to assignment of the individual to Safety-related work. The Owner's QA Element Review shall be completed within two working days after receipt of Contractor's notification."

The documentation in question consists of Nonconformance Reports, Inspection Reports (Form #118), Material Receiving Reports (Form #39A), Weld Documentation Records (Form #107), and Checklists for documenting electrical equipment installation, Form #21, 27, 32, and 128.

In reference to electrical penetrations, 1R72-S001 - S029, all inspections performed and documented on Form #39A, Material Receiving Reports, and Form #116 A&B, Installation Checklists have been generated by inspectors who were not certified on the date the inspections were performed.

Concern #2 There appears to be no standardized method to filling out Form #21, Insulation Resistance/Continuity Test Report. The forms have been altered by the craft to suit their own interpretation. Often, the results are indecipherable.

SP 709-4549-00 Section 1:05.10 Control of Inspections and Tests, Paragraph 1 states:

1. A program of inspections and tests shall be prepared for all activities affecting quality, and shall identify those inspection and test points to be verified for conformance to documents such as instructions, procedures, drawings, specifications, etc., that are used to perform the activity. The inspection and tests shall be performed by individuals other than those who performed the activity being inspected or tested and who do not report to the supervisor who directed the original WORK. There shall be an adequate number of inspections and tests performed to assure that all operations of the activity fulfill the predetermined quality requirements. The CONTRACTOR shall describe the system which he will utilize to identify, implement and verify HOLD POINTS, or WIT-



Concern #2 Continued

NESS POINTS which will assure that inspections and tests are performed as required.

Craft has been using the infinity symbol extensively. The Procedure states that the reading should be in Ohms, Megohms, etc. Procedure 4.3.18, Meggering and Continuity Testing, paragraph 3.1.9 states: "A record shall be made and kept for all tests governed by this procedure. The record must indicate the following: (Use Form #21, Attached)."

3.1.9 states: "Test Measurements obtained with units identified (i.e. Ohms, Megohms, etc.)."

3.2.1, under acceptance criteria states:

"Unless otherwise specified by the Project Organization Engineer, values in Figure 15 (Page 12) shall be used."

Paragraph Spec-709-4549-00, 1:05.10 3C states:

C. What written instruction the person performing the inspections and tests will be working to, including the specific acceptance criteria, tolerance, etc., which must be verified.

It is a requirement of Spec 33-4549-00 that 100% of all Class 1E and Non Class 1E cables have a Megger/Continuity Test and the results be documented. This activity is performed solely by the construction department. (Testing and Documenting). The Quality Control Department has accepted these test results in accordance with Procedure 4.3.18 prior to this procedure being approved.

Concern #3 The following pieces of Electrical Equipment were not listed in Spec-33-4549-00 Equipment Furnished by Owner (FBO) List. The concern is what documents address installation of this equipment by L. K. Comstock, if any. The list is as follows: OH51-P094, 2H13-P624A, OH51-P095, 2H13-P731, 1H13-P74, 2H13-P732, 1H13-P619, 2H13-P736, 1H13-P621, 2H13-P822, 1H13-P630, 2H51-P056, 1H13-P632, 2H51-P846A, 1H13-P634, 2H51-P864B, 1H13-P680, 2H51-P847, 1H13-P731, 2H51-P848, 1H13-P732, 2H51-P849, 1H13-P864, M40-CO01B, 1H13-P865, 2P42-R22, 1H13-P866, OR24-S012, 1H13-P867, OR24-S013, 1H13-P870, OR24-S032, 1H13-P872, OR42-S006, 1H13-P902, 1R24-S026, 1H13-P904, 1R24-S036, 1H22-P022, 2R24-S012, 1H51-P056, 2R24-S015, 1H51-P846A, 2R24-S028, 1H51-P846B, 2R24-S037, 1H51-P847, 1R24-S033, 1H51-P849, and 2R42-S007.

Concern #4 All Equipment Packages reviewed by the Task Force had numerous inspections that had not been performed.

Concern #5 It appears that a large number of original Material Receiving Reports have been lost. It also appears that an attempt has been made to re-document the Receipt Inspection without any back-up information.

At this time, per the Task Force Review of Electrical Equipment Installations and as a result of Concern #1, all inspections performed prior to 1/1/82 should be considered invalid and the lack of certification of the individuals performing these inspections should be addressed immediately. Additionally, all Megger/Continuity Tests should also be considered invalid, as a result of the acceptance of test results without an approved procedure.



Also, all inspections presently being performed and all personnel certifications should be reviewed at this time because of the fact that some of the inspectors identified as being not certified in specific activities are currently employed by L. K. Comstock at the Perry Site, as previously identified in part on 8/6/82.



ATTACHMENT 2 (Task Force #40)

ATTACHMENT 1

LIST OF GENERIC ITEMS

1. There is a lack of IEEE Certifications or NR# CQC 1226, to document the lack of the same. There is also a problem with tracing the Conditional Releases to the panels since most C.R.'s are also missing.
2. Forms were not properly filled out (i.e. all blanks not filled in).
3. All Form #62 - Warehouse Issue Tickets were poor Quality Reproductions.
4. Many forms were missing from each equipment package.
5. Field Storage Maintenance Requirements were not performed properly and all temperatures and pressure readings recorded showed no evidence that calibrated equipment was used.

INSPECTORS INVOLVED

M.S. = Max Sorenson	R.G. = Ron Gillette	P.R. = Phil Romano
J.R. = John Rufft	B.E. = Barry Erwin	T.R. = Tim Ross
B.P. = Brien Palmer	R.B. = Richard Britanik	G.H. = George Hagler
M.I. = Mike Imhoff	R.C. = Ralph Coffman	G.Y. = George Young

<u>EQUIPMENT NO.</u>	<u>INSPECTOR</u>	<u>TYPE OF INSPECTION</u>	<u>DATE</u>
OH51 - PC77 A&B	P.R.	Maint. Ver. Level I	3/23/82
OH51 - P077 A&B	M.S.	Maint. Ver. Level I	2/24/82
OR24 - S020	P.R./R.C.	IR	2/11/81
OR24 - S020	G.Y.	AFR	4/03/81
OR24 - S025	P.R./R.C.	IR	2/11/81
OR24 - S035	P.R./R.C.	IR	2/11/81
OR24 - S036	P.R./R.C.	IR	2/11/81
OR24 - S037	G.Y.	Installation	3/12/81
OR24 - S037	P.R./R.C.	IR	2/11/81
1E22 - P001 & P002	P.R./RC	IR Level I	2/10/81
1H13 - P701, 2, 3, 4, 7, 10, 11, 12, 13, 14, 15, 17, 30, 40, 41, 42, 43, 44, 45, 46, 47, 48	R.C./P.R.	Maint. Ver.	2/11/81
1H13 - P701	G.Y.	Installation	3/23/81
1H13 - P702	G.Y.	Installation	3/24/81
1H13 - P702	B.P.	Installation	1/07/80
1H13 - P703	G.Y.	Installation	3/24/81
1H13 - P704	G.Y.	Installation	3/24/81
1H13 - P706	G.Y.	Installation	3/24/81
1H13 - P707	G.Y.	Installation	3/24/81
1H13 - P710	G.Y.	Installation	3/24/81
1H13 - P710	G.H.	Installation	10/07/80
1H13 - P711	G.Y.	Installation	3/24/81
1H13 - P711	G.H.	Installation	10/02/80
1H13 - P712	G.Y.	Installation	3/24/81
1H13 - P712	G.H.	Installation	10/02/80
1H13 - P713	G.Y.	Installation	3/24/81
1H13 - P713	G.H.	Installation	10/02/80
1H13 - P714	G.Y.	Installation	3/24/81
1H13 - P714	G.H.	Installation	10/02/80
1H13 - P714	B.P.	Installation	1/08/80
1H13 - P715	G.Y.	Installation	3/24/81
1H13 - P715	B.P.	Installation	1/08/80

<u>EQUIPMENT NO.</u>	<u>INSPECTOR</u>	<u>TYPE OF INSPECTION</u>	<u>DATE</u>
1H13 - P717	G.Y.	Installation	3/25/81
1H13 - P717	G.H.	Installation	10/02/80
1H13 - P730	G.Y.	Installation	3/25/81
1H13 - P740	G.Y.	Installation	3/25/81
1H13 - P740	B.P.	Installation	1/07/80
1H13 - P741	G.Y.	Installation	3/25/81
1H13 - P741	G.H.	Installation	10/07/80
1H13 - P741	B.P.	Installation	1/08/80
1H13 - P742	G.Y.	Installation	3/25/81
1H13 - P742	B.P.	Installation	1/07/80
1H13 - P743	G.Y.	Installation	3/25/81
1H13 - P743	G.H.	Installation	10/07/80
1H13 - P744	G.Y.	Installation	3/25/81
1H13 - P744	B.P.	Installation	1/07/80
1H13 - P745	G.Y.	Installation	3/25/81
1H13 - P746	G.Y.	Installation	3/25/81
1H13 - P746	B.P.	Installation	1/07/80
1H13 - P747	G.Y.	Installation	3/25/80
1H22 - P007	G.H.	Installation	10/25/80
1H22 - P008	G.Y.	Installation	12/22/80
1H22 - P030	R.C.	NR	2/18/81
1H22 - P033	R.C.	NR	2/18/81
1H51 - P054 A&B	R.G.	Receiving Level I	9/23/81
1H51 - P174 A	G.Y.	Receiving	1/28/81
1H51 - P174 A	J.R.	M.T. Level I	1/19/81
1H51 - P174 B	G.Y.	Receiving	1/28/81
1M51 - S002	P.R.	IR Level I	2/15/82
1R22 - S006	B.P.	Installation	1/28/80
1R22 - S006	B.P.	Installation	10/22/80
1R22 - S006	M.I.	Installation	8/08/80
1R22 - S007	M.I.	Installation	8/08/80
1R22 - S007	B.P.	Installation	1/28/80

<u>EQUIPMENT NO.</u>	<u>INSPECTOR</u>	<u>TYPE OF INSPECTION</u>	<u>DATE</u>
1R24 - S018	T.R.	Installation	3/05/80
1R24 - S018	P.R./R.C.	IR	2/11/82
1R24 - S018	G.Y.	IR	3/13/81
1R24 - S019	P.R.	IR Level I	2/26/82
1R24 - S019	P.R./R.C.	IR	2/11/81
1R24 - S019	T.R.	Installation	3/05/80
1R24 - S021	P.R./R.C.	IR	2/11/81
1R24 - S022	P.R./R.C.	IR	2/11/81
1R24 - S023	P.R./R.C.	IR	2/11/81
1R24 - S023	P.R.	AFR Level I	2/11/81
1R24 - S024	G.Y.	Installation	3/13/81
1R24 - S026,28,29	P.R./R.C.	IR	2/11/81
1R72 - S001	P.R./R.C.	IR	1/16/81
1R72 - S001	R.C.	Installation	2/26-3/03/81
1R72 - S001	R.C.	NR	2/11/81
1R72 - S002	R.C.	Installation	2/26-3/4/81
1R72 - S002	R.C.	NR	2/11/81
1R72 - S002	P.R.	NR Level I	3/02/82
1R72 - S002	P.R./R.C.	IR	1/16/81
1R72 - S003	G.Y./R.C.	Installation	2/11-2/25/81
1R72 - S003	P.R.	IR Level I	2/16/82
1R72 - S003	G.Y.	IR	2/11/82
1R72 - S004	R.C.	Installation	2/20-3/25/81
1R72 - S004	P.R.	NR Level I	3/02/82
1R72 - S005	R.C.	Installation	2/13/81
1R72 - S005	P.R./R.C.	IR	2/24/81
1R72 - S006	R.C.	Installation	2/20-3/24/81
1R72 - S007	R.C.	Installation	3/09-3/11/82
1R72 - S008	R.C.	Installation	2/19-7/09/81
1R72 - S008	B.E.	AFR	12/01/81
1R72 - S009	R.C.	Installation	3/03-4/03/81
1R72 - S010	R.C.	Installation	3/09-4/07/81
1R72 - S011	R.C.	Installation	2/24-3/25/81
1R72 - S011	P.R.	NR Level I	3/02/82

<u>EQUIPMENT NO.</u>	<u>INSPECTOR</u>	<u>TYPE OF INSPECTION</u>	<u>DATE</u>
1R72 - S012	R.C.	Installation	2/17-3/11/81
1R72 - S013	R.C.	Installation	2/18-3/06/81
1R72 - S014	R.C.	Installation	3/11-4/06/81
1R72 - S015	R.C.	Installation	3/09-4/06/81
1R72 - S016	R.C.	Installation	3/10-3/18/81
1R72 - S017	R.C.	Installation	2/24-3/11/81
1R72 - S018	R.C.	Installation	3/16/81
1R72 - S019	R.C.	Installation	3/11-3/18/81
1R72 - S020	R.C.	Installation	3/17-4/02/81
1R72 - S021	R.C.	Installation	3/19-4/01/81
1R72 - S022	R.C.	Installation	3/19-4/07/81
1R72 - S023	R.C.	Installation	3/17-4/01/81
1R72 - S024	R.C.	Installation	3/19-4/07/81
1R72 - S025	R.C.	Installation	3/11-3/25/81
1R72 - S026	R.C.	Installation	2/20-3/31/81
1R72 - S027	R.C.	Installation	2/23-3/31/81
1R72 - S028	R.C.	Installation	2/24-3/18/81
1R72 - S029	R.C.	Installation	2/16/81
2E22 - P001	P.R.	IP Level I	2/15/82
2H13 - P701	G.Y.	Installation	3/30/81
2H13 - P702	G.Y.	Installation	3/26/81
2H13 - P703	G.Y.	Installation	3/26/81
2H13 - P704	G.Y.	Installation	3/26/81
2H13 - P706	G.Y.	Installation	3/26/81
2H13 - P707	G.Y.	Installation	3/26/81
2H13 - P710	G.Y.	Installation	3/26/81
2H13 - P711	G.Y.	Installation	3/26/81
2H13 - P712	G.Y.	Installation	3/26/81
2H13 - P713	G.Y.	Installation	3/26/81
2H13 - P714	G.Y.	Installation	3/26/81
2H13 - P714	G.H./R.B.	Installation	10/21/80
2H13 - P715	G.Y.	Installation	3/30/81
2H13 - P715	G.H./R.B.	Installation	10/21/80
2H13 - P717	G.Y.	Installation	3/30/81
2H13 - P740	G.Y.	Installation	3/30/81
2H13 - P741	G.Y.	Installation	3/30/81
2H13 - P742	G.Y.	Installation	3/30/81
2H13 - P743	G.Y.	Installation	3/30/81

<u>EQUIPMENT NO</u>	<u>INSPECTOR</u>	<u>TYPE OF INSPECTION</u>	<u>DATE</u>
2H13 - P744	G.Y.	Installation	3/30/81
2H13 - P745	G.Y.	Installation	3/30/81
2H13 - P746	G.Y.	Installation	3/30/81
2H13 - P747	G.Y.	Installation	3/30/81
2H13 - P748	G.Y.	Installation	3/30/81
2H22 - P007	G.Y.	Receiving	12/04/80
2H22 - P008	G.Y.	Installation	12/22/80
2H22 - P030	G.H./R.B.	Hilti	12/12/80
2H22 - P030	G.Y.	Hilti	1/07/81
2H22 - P030	G.Y.	Receiving	12/04-2/06/81
2H22 - P030	G.Y.	Installation	1/07/81
2H22 - P030	R.C.	NR	2/18/81
2H22 - P031	G.H./R.B.	Hilti	12/08/80
2H22 - P031	G.Y.	Hilti	1/07/81
2H22 - P031	R.C.	NR	2/18/81
2H22 - P031	G.Y.	Installation	1/07/81
2H22 - P031	R.C.	NR	2/18/81
2H22 - P031	G.Y.	Receiving	12/04/80-2/06/81
2H22 - P032	G.H./R.B.	Hilti	12/08/80
2H22 - P032	G.Y.	Hilti	1/07/81
2H22 - P032	R.C.	NR	2/18/81
2H22 - P032	G.Y.	Installation	1/07/81
2H22 - P032	G.Y.	Receiving	12/04/80-2/06/81
2H22 - P033	R.C.	NR	2/18/81
2H22 - P033	G.Y.	Hilti	1/07/81
2H22 - P033	G.Y.	Installation	1/07/81
2H22 - P033	G.H./R.B.	Hilti	12/12/80
2H22 - P033	G.Y.	Receiving	12/04/80-2/06/81
2H51 - P054 B	R.G.	Receiving Level I	10/01/81
2H51 - P055 B	R.G.	Receiving Level I	10/01/81
2R22 - S006	M.I.	Installation	8/08-8/12/80
2R22 - S007	M.I.	Installation	8/08/80
2R24 - S018	G.Y.	Installation	3/12/81
2R24 - S018	P.R./R.C.	IR	2/11/81

<u>EQUIPMENT NO.</u>	<u>INSPECTOR</u>	<u>TYPE OF INSPECTION</u>	<u>DATE</u>
2R24 - S019	G.Y.	Installation	3/12/81
2R24 - S019	P.R./R.C.	IR	2/11/81
2R24 - S021	G.Y.	Installation	3/12/81
2R24 - S021	P.R./R.C.	IR	2/11/81
2R24 - S022	G.Y.	Installation	3/12/81
2R24 - S022	P.R./R.C.	IR	2/11/81
2R24 - S023	G.Y.	Installation	3/12/81
2R24 - S023	P.R./R.C.	IR	2/11/81
2R24 - S024	G.Y.	Installation	3/12/81
2R24 - S024	P.R./R.C.	IR	2/11/81
2R24 - S026	R.G.	IR Level I	10/12/81
2R24 - S026	P.R./R.C.	IR	2/11/81
2R24 - S026	G.Y.	Installation	3/12/81
2R24 - S028	G.Y.	Installation	3/12/81
2R24 - S028	P.R./R.C.	IR	8/11/81
2R24 - S029	G.Y.	Installation	3/12/81
2R24 - S029	P.R./R.C.	IR	2/11/81
2R24 - S030	P.R.	Installation Level I	1/15/82
2R24 - S031	P.R.	Installation Level I	1/15/82
2R24 - S032	P.R.	Installation Level I	1/15/82
2R24 - S037	P.R./R.C.	IR	2/11/81
2R42 - S012	P.R.	Maint. Ver. Level I	3/25/82
2R42 - S012	Unknown	Maint. Ver.	6/01/81
2R42 - S013	Unknown	Maint. Ver.	6/01/81
2R42 - S013	P.R.	Maint. Ver. Level I	3/25/82
2R42 - S013	P.R.	Meg. Level I	3/25/82
2R42 - S014	P.R.	Meg. Level I	3/25/82
2R42 - S014	Unknown	Maint. Ver.	6/01/81
2R42 - S014	P.R.	Maint. Ver. Level I	3/25/82
2R42 - S015	Unknown	Maint. Ver.	5/29/82
2R43 - S001 A	P.R.	IR Level I	2/26/82
2R43 - S001 A	P.R.	Receiving Level I	3/04/82
2R72 - S001	P.R.	Installation Level I	11/18/81
2R72 - S002	P.R.	Installation Level I	11/19/81
2R72 - S011	M.S.	Maint. Ver. Level I	7/09/82

<u>EQUIPMENT NO.</u>	<u>INSPECTOR</u>	<u>TYPE OF INSPECTION</u>	<u>DATE</u>
2R72 - S019	M.S.	Maint. Ver. Level I	7/08/82
2R72 - S025	M.S.	Maint. Ver. Level I	7/09/82
2R72 - S028	M.S.	Maint. Ver. Level I	7/08/82



Pullman Power Products

I
SECTION NO.

PREPARED BY: J. E. Miller

APPROVED BY: E. F. Gerwin *EB*

DATE: 11-22-82

QUALITY ASSURANCE
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1.3.3 Senior Vice President, Piping and Mechanical Group

The Senior Vice President, Piping and Mechanical Group reports to the Executive Vice President of Pullman Power Products. He has the authority and responsibility for administration of all Piping Fabrication and Mechanical Construction lines of business. He delegates authority for administration of Mechanical Construction to the Vice President, Mechanical Construction Operations.

8-30-82

1.3.4 Vice President, Quality Assurance

The Vice President, Quality Assurance reports to the President. He is responsible for establishing Corporate policies relating to Quality Assurance and for assuring their effective implementation by the Director of Quality Assurance at various field sites. He shall have overall responsibility for indoctrination and training of all personnel affecting quality.

1.3.5 Vice President, Mechanical Construction Operations

The Vice President, Mechanical Construction Operations reports to the Senior Vice President, Piping and Mechanical Group. He has the authority and responsibility for the administration and execution of all mechanical construction projects. This includes selection, indoctrination and training of personnel assigned to specific field sites and evaluation of their performance. He delegates authority for administration at each field site to the Resident Construction Manager.

1.3.6 Director of Quality Assurance

The Director of Quality Assurance, reports to the Vice President, Quality Assurance on all technical and functional matters relating to quality assurance. He reports administratively to the Senior Vice President, Piping and Mechanical Group.



Pullman Power Products

I
SECTION NO.

PREPARED BY: J. E. Miller

APPROVED BY: E. F. Gerwin

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1.3.12 Supervisor of Quality Assurance, QEG

The Supervisor of Quality Assurance, QEG reports to the Director of Quality Assurance. He has the authority and responsibility for administering the quality assurance program and coordinating the activities of the Project QA Engineers, Document Control Specialists, clerks and other personnel assigned to the Quality Engineering Group. He shall have responsibility for the review of Quality Assurance, Quality Control, Project QA Manuals and Procedures as required by various codes and Customer specifications.

1.3.13 Resident Construction Manager

The Resident Construction Manager reports to the Senior Vice President Piping and Mechanical, through the Vice President, Mechanical Construction Operations. He has the authority and responsibility for the administration of all required functions at the field site. This includes selection, indoctrination and training of personnel, other than QA personnel, in cooperation with the Quality Assurance Manager as outlined in Section II, Para. 2.5.4, as required to effect a quality installation. His compliance with QA requirements are controlled as described in 1.3.15. The Resident Construction Manager has the authority to cause any Subcontractor personnel to be removed from the site.

1.3.14 Quality Assurance Manager

The Quality Assurance Manager reports on all technical and functional matters relating to quality assurance to the Director of Quality Assurance. He reports administratively to the Resident Construction Manager.

He is responsible to the Director of Quality Assurance for the effective implementation of Quality Assurance and Quality Control procedures (as applicable) at the field site to which he is assigned.

He has the authority, responsibility and organizational freedom for implementing Quality Assurance or Quality Control Programs as directed by the Director of Quality Assurance. In cases of conflict in matters relating to the function or technical aspects of quality or administration of Quality Assurance personnel, he may report directly to the President, through the Vice President of Quality Assurance and Director of Quality Assurance.

8-30-82



Pullman Power Products

I
SECTION NO.

PREPARED BY: J. E. Miller

APPROVED BY: E. F. Gerwin

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1.3.14 Quality Assurance Manager (Cont'd)

Once a Project Quality Assurance Manual is established by virtue of an acceptable ASME site survey, the Quality Assurance Manager will be responsible for its revision, maintenance, control and distribution. He will obtain approval for all revisions from the Vice President of Quality Assurance, through the Director of Quality Assurance.

He is responsible for the control and distribution on site of the Quality Assurance Procedures established for the job and other duties relative to such procedures as may be delegated to him by the Director of Quality Assurance.

This includes selection, indoctrination, training, qualification and certification of QA personnel who may be hired in the field. He cooperates with the Resident Construction Manager by coordinating the activities of the QA Department in the field with production activities as necessary to assure the attainment of the desired quality levels. He has the authority, responsibility and freedom to identify quality problems and to initiate, recommend or provide solutions and to verify implementation of solutions and control of further processing of any nonconforming item or condition until proper disposition is made.

1.3.15 Assistant QA Manager

The Assistant QA Manager reports to the QA Manager. He is responsible for the implementation of the QA Manager's responsibilities in his absences and other duties as assigned by the QA Manager.

1.3.16 Training Engineer

The Training Engineer reports to the QA Manager. He is responsible for the coordination and administration of all field training. It is the responsibility of the Training Engineer or his representative to conduct training using the various materials and aides made available and to develop additional materials and aides necessary for the implementation of a complete Training Program. Classroom Training shall be conducted by the Training Engineer or qualified personnel designated by him. On-the-job training may be conducted by the responsible supervisor. All Training shall be documented.

1.3.17 Field QA Supervisor

The Field QA Supervisor reports to the QA Manager. He is responsible for the accumulation, evaluation, retention control



Pullman Power Products

I
SECTION NO.

PREPARED BY: J. E. Miller

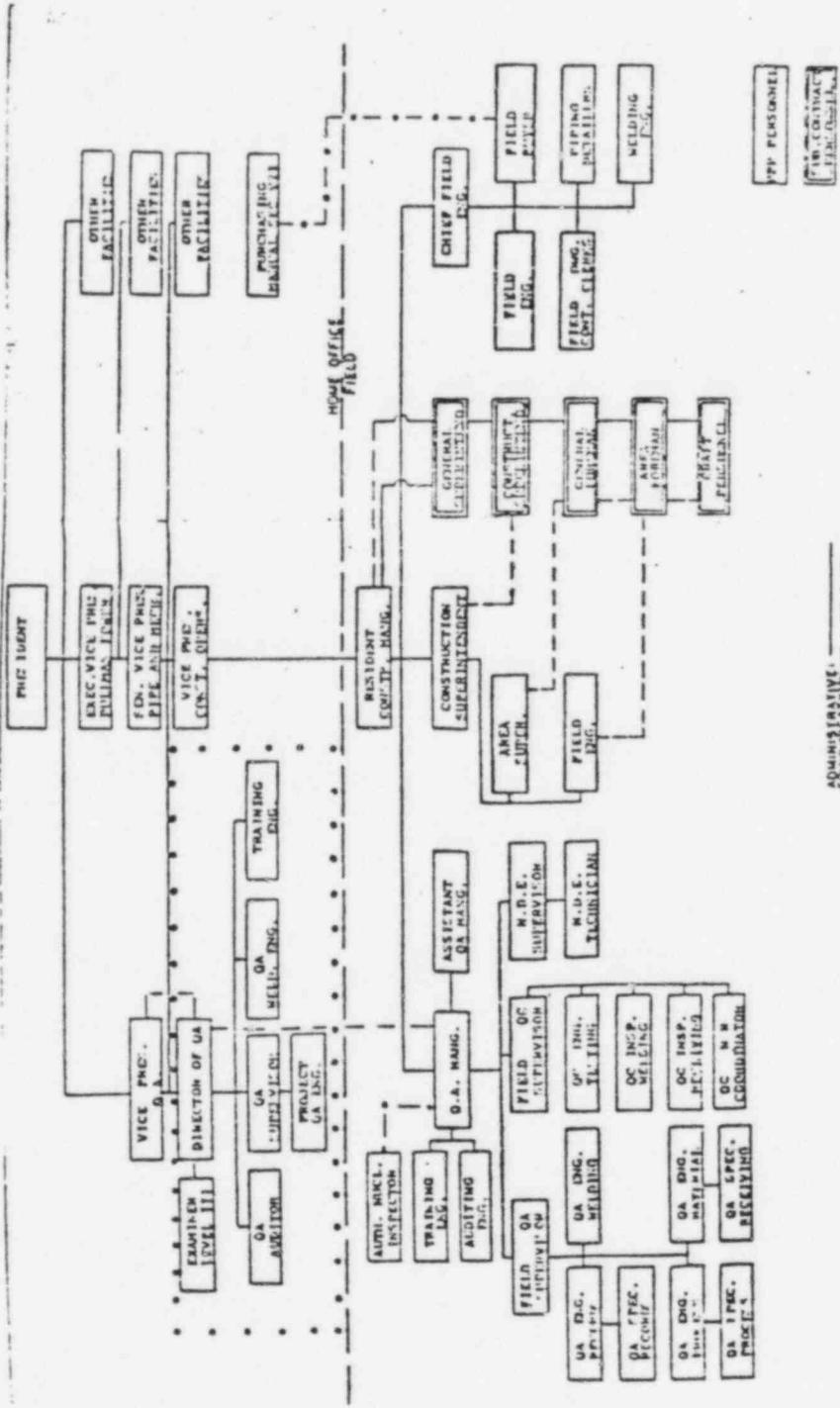
APPROVED BY: E. F. Gerwin

DATE: 11-22-82

QUALITY ASSURANCE PROGRAM

ORGANIZATION

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L.K. Comstock Engineering Company, Inc.
 A COMSTOCK GROUP COMPANY

Rec'd 1/19/83 p
 Perry Nuclear Power Plant
Rick Bower
 2:00 PM

*At Comstock
 6901*

January 19, 1983

Pullman Power Products
 Perry Nuclear Power Project
 Perry, Ohio 44081

Attn: Mr. R. Walter,
 Resident Construction Manager

Mr. J. Miller, ✓
 QA Manager

Subject: Electrical Penetration Weld Documentation

CONTROL NUMBER: Q-83-1-71

Dear Sirs:

A review of the electrical penetration weld documentation submitted by Pullman Power Products to L. K. Comstock has generated concerns. Please review the attached list of concerns and provide the corrective action needed to clear said items. Since the electrical penetrations are an NRC concern please submit your response by January 28, 1983.

It is also recommended that Pullman Power Products provide a Q. A. individual who is familiar with the L. K. Comstock electrical penetration packages and the Pullman Power Products Q. A. program to review the concerns identified. This meeting is requested by January 21, 1983.

R. L. Bower
 R. L. Bower
 QC Manager, LKCE

RLB:ecs

w/Attachments

cc: T. Woodman
 E. Yockey
 J. Hubbuch
 D. Fike
 QC File

CONTROL NO: Q-83-1-71

CONCERN #1 Pullman 1-72R Series Isometric Drawings do not contain the same information as Westinghouse E-40047 and E-40048 Drawings. Pullman's procedures do not call out any additional acceptance criteria for fitup inspections.

Miller

Specification 33-4549-00 Para. 5:08/1.4a "Inspect fitup...to assure that the installation and field weld can be accomplished per the requirements as indicated on manufacturer's drawings..."

*#2
Hunnicuttt*

Pullman and Comstock Procedures state that all welding on the electrical penetrations are to be performed per ASME Section III Div. 1 1974, MC Subsection, however Westinghouse Drawings E-40047 and E-40048 state that the penetrations were designed per the 1977 Code (same Section and Division).

#3 Pullman failed to properly identify control and address nonconforming conditions, as follows:

OPEN

Johnson

A) Pullman did not address any nonconforming condition to the customer-client (L. K. Comstock).

The following are nonconformances which were addressed via another contract not L. K. Comstock Requisition #2329 and Spec. 33-4549-00.

(587)

NR #584 & NR #PO 44-204. These NR's address penetrations 1-R72-S008 and 1-R72-S019.

Pullman QA Manual Section XV Para. 15.2.7 states: "Appropriate resolution of nonconformances will be determined by the Field Engineering Department in conjunction with Quality Assurance, the customer..."

B) "Field Weld Process Sheet for base metal buildup" (Form #19) for penetration 1-R72-S002 does not establish any of the parameters which dictated repair to the nozzle. There is no way of evaluating this repair to base metal because of a lack of documentation.

*The Fieldweld Metal Repair instead of metal buildup Ret. Concern #14
Miller or Hunnicutt*

The Field Weld Process Sheet (Form #19) does not reference the base metal buildup document. →

Specification 709-4549-00 Para. 1:05.14.3 "These conditions dispositioned...repair require owner approval".

CONTROL NO: Q-83-1-71

CONCERN #3 C) Pullman's NR #PO 44-204 R-3 does not document the size of indications for 1-R72-S008, as required by Project Organization Engineer.

#4 Medium voltage penetrations 1-R72-S001 & 1-R72-S002. Two medium voltage electrical penetrations nozzles were welded to containment nozzles per Pullman Power Products Isometric Drawing LR72-3 Rev. 0C and LR72-4 Rev. 0A (respectively). These drawings do not detail backing rings as required.

Amnicott

Procedure used by welders, 1T12A, does not require backing ring or any of the other methods established by the reference ASME Paragraph to assure full penetration.

~~Specification 33-4549-00 Para. 5:08.14.C and ASME Section III, Division I, MC Para. NE 4242 (1977), Westinghouse Drawing Spec. E-40048. Pullman QA Manual Section III Para. 3.6.1.~~

Review

Procedure revision

#5 Pullman's "Fabrication and Installation Specifications for Nuclear Power Plant Components, ...ASME Section III" (1X-3) Para. 7.9.3 "Reinforcement of butt welds other than ISI allows 3/16" weld reinforcement when the base metal is an inch or less.

Miller

ASME Section III Div. I, MC (Subsection) (1974 & 1977) Para. NE 4426, allows 3/32" weld reinforcement when the base metal is an inch or less.

#6 Pullman Procedure (1X-3) Para. 7.5.1.3 states: "Prior to making the final connection to equipment the following conditions must be met:

Not applicable to SB33

"Final fitup hold point...is an owner hold point owner acceptance or waiver must be obtained..."

This hold point was not applied to the electrical penetrations.

#7 Pullman Power Products to cut nozzle to proper length, if required, and prepare and inspect the nozzles for welding in accordance with Reference 1.3 (Westinghouse Manual/Instruction Book) and Drawings B-224-301 & B-274-301.

Visual Miller ?

#8 Pullman's inspection documentation (Field Weld Process Sheet) does not consistently establish what procedures and revisions or criteria was used by Pullman's Inspector's and Craft.

Johnson

#9 No ASME Data Report was submitted for the nozzle penetration weld. Specification 33-4549-00 does not waive Data Report.

OK Johnson

** Ohio Special "*

CONTROL NO: Q-83-1-71

Concern #10 There is no evidence that Pullman 1T12A-III (Welding Specification) procedure was presented to L. K. Comstock for approval. L. K. Comstock does not list this procedure on Attachment #4 of Procedure 4.3.10.

Miller
Johnson

Specification SP-33-4549-00 Para. 4.06.5 and SP-709-4549-00 Para. 1.04.6.

#11 Improper documentation practices were found during the review, examples follows:

Miller
What Examples?

A) Improper changes, see package 1-R72-1, 2, 3, 4, & 5. Weld Rod Requisitions.

B) ~~Revision numbers of Isometric Drawings are not identified on inspection documents. See Form #19's.~~

Miller
No Final Insp. Required?

#12 There is no evidence Pullman completed Form #10 (Final Inspection Cover Sheet) as required by their QA Manual, Section III, Para. 3.8.

#13 On electrical penetrations 4, 5, 14, 19, 21, 23 and 26, the fitup and tack was signed off by the Quality Control Inspector before the rod was signed off by the Quality Assurance Process-Specialist from the Process Sheet/Weld Material Distribution Center. (See Attachment A)

Hannicutt

Pullman Power's Document VIII-3, "Control of Welding Materials (Field)", Para. 6.2 states:

"Each Distribution Center shall be staffed by a Quality Control Sepcialist-Process who shall have total control over all activities involving the distribution and return of welding materials."

#14 Review of Penetrations 1-R72-S003, indicates a base metal buildup performed on 3/30/81. Pullman Power's Document IX-14, Section 3.3, states:

Hannicutt

"Base Metal - Repairs which exceed the lesser of 3/8" or 10% of the section thickness and cracks shall be documented as a nonconformance.

Welder Repair (i.e. Weld Metal Buildup) of weld edge preparation, which is necessary prior to the issuance of Installation Process Sheets shall be addressed as nonconformances."

Pullman Fower has not included a nonconformance in their weld documentation.

CLEVELAND ELECTRIC ILLUMINATING
PNPP UNITS #1 and #2
ATTENDANCE ROSTER

DATE February 3, 1983 TIME 2:00 @ _____

PURPOSE OF MEETING NRC Exit Meeting

MEETING CHAIRED BY Mr K.R. Naidu

NAME	ORGANIZATION/COMPANY	TITLE
CYRIL M. SHUSTER ✓	CEI / QUALITY ASSURANCE	MANAGER
FRANK R. STEAD ✓	CEI / Nuc ENGRG DEPT.	MANAGER
PAUL BYRN	NRC	Res. Insp.
KEVIN CIMARELLI	CEI / CQS	Q.E.
MAX GILDAER	NRC	Resident Insp.
VERNON K. HIGAKI ✓	CEI / CQS	QE
EMANUEL RILEY	CEI / CQS	GEN. SUPV.
JAMES S. KERR	CQS / RKE	SUPV.
K.C. Kaplan	PQAS / CEI	Sr. Engineering Technician
B. WALBATH	CQS / CEI	General Supervising Engr
GARY LEIDICH	CEI / NCES	Sr. Engineer
TOM SWANISGER	CEI / PQAS	Supervisor
Kamal Naidu	NRC	R III inspector

RCB

PERRY NUCLEAR POWER PLANT
NONCONFORMANCE REPORT

NO. 1523 REV. 4-76

MPL ATTACHED

ELECTRICAL PENETRATIONS

LINE NO.	PERRY NUCLEAR POWER PLANT NONCONFORMANCE REPORT									
1	NCR NO.	REV. SHT.	OF	ITEM	IDENT NO.	ITEM NAME	QUANTITY	DEFICIENCY TAG		
	LKG 17690	1	2	1R72			2			
2	ISSUED BY	NAME			INIT.	ORGANIZATION		DATE		
		R.L. BOWER			<i>RCB</i>	L.K. COMSTOCK		20883		
3	ITEM/MATERIAL	SOURCE PROJECT ORG.			CURRENT STATUS		LOCATION			
		WESTINGHOUSE			INSTALLED		UNIT 1 R.B. 659' ELEV.			
4	RESPONSIBLE ORGANIZATION	NAME				SPEC. NO.		REV./ECN.		
		PULLMAN POWER PRODUCTS/L.K. COMSTOCK				SP- 33		1V		
5	NCR TYPE	CATEGORY:			TYPE					
		<input type="checkbox"/> 1 (POSSIBLE SIGNIF)			<input checked="" type="checkbox"/> 2 (MAJOR)			<input type="checkbox"/> 3 (MINOR)		
		<input type="checkbox"/> (E) EQUIP./MAT'L.			<input checked="" type="checkbox"/> (I) INSTALLATION			<input type="checkbox"/> (P) PROGRAM		
6	GOVERNING REQUIREMENT	(INCLUDE ACCEPTANCE CRITERIA AND DOC'MT. NOS.) SP-33-4549-00 PARA. 5:08.1.4 B & C, PARA. 5:08.1.11 A & C, PARA 4:06.5.1, WESTINGHOUSE DRAWING E40048 AND ASME CODE SEC. III MC (FOR CAT. B)								
7	DESCRIPTION OF NONCONFORMANCE	NC CODE	(RELATE TO LINE NO. 6)							
		0, 5, 1			CONTRARY TO THE ABOVE DOCUMENTS, WHICH INDICATES USE OF A BACKING RING, MEDIUM VOLTAGE ELECTRICAL PENETRATIONS WERE WELDED USING AN OPEN BUTT WELDING PROCEDURE 1T12A (BACKING RING NOT REQUIRED) INSTEAD OF 1T8A (WHICH IS QUALIFIED FOR USE WITH A BACKING RING).					
8	CAUSE OF NONCONFORMANCE	CAUSE CODE	DOES NOT MEET SPECIFICATION REQUIREMENTS							
		0, 3, 4								
9	PROPOSED DISPOSITION	<input type="checkbox"/> SCRAP (1) <input type="checkbox"/> REWORK (2) <input type="checkbox"/> REPAIR (3) <input type="checkbox"/> USE AS IS (4)								
	JUSTIFICATION:									
10	STEPS TO PREVENT RECURRENT									
11	RESP. ORG. APPROVAL	ENG./CONST.	QA/QC	AIA	DATE					
12	PNPP REVIEW BOARD	REVIEW REQ'D.	YES	NO	DECISION:	ACCEPT	REJECT	DATE		
		ENGINEER	DATE	QA/QC						
13	DISPOSITION VERIFIED	NAME	TITLE				DATE			

QUALITY CONFORMANCE REPORT

LK COMSTOCK
10 CENTER ROAD
PERRY, OHIO 44081

DECEMBER 22, 1981

DATE

AIRCO ORDER NO.

5121001-2001

CUSTOMER ORDER NO.

TYPICAL CERTIFICATION

AIRCO CODE-ARC-7018 MR
STOCK NUMBER 1318-7183

ITEM	WEIGHT (LBS)	SIZE	TYPE	HEAT NO.	LOT
1	250 POUNDS	3/32	7018 MR	111-19B5B	
2	550 POUNDS	3/32	7018 MR	110-23B5A	
3	200 POUNDS	3/32	7018 MR	110-22B5A	

CHEMICAL ANALYSIS IS TYPICAL WELD METAL

ITEM	C	Mn	P	S	SI	NI	Cr	Mo	Cb	V	Cu		
1	0.04%	0.65%	0.011%	0.013%	0.55%								
2	0.04%	0.65%	0.011%	0.013%	0.55%								
3	0.04%	0.65%	0.011%	0.013%	0.55%								

MECHANICAL PROPERTIES TYPICAL WELD METAL

ITEM	TENSILE P.S.I.	YIELD P.S.I.	% EL.	% R.A.	OTHER
1	70,000	58,000	24		
2	70,000	58,000	24		
3	70,000	58,000	24		

ADDITIONAL TESTS

Sworn and Subscribed to this 24th day of May 19 79

Ledesa Jamarik
INDUSTRIAL PUBLIC

I certify the chemical analysis and physical or mechanical test reported above meet the specifications on the described material and are correct as contained in the records of the Company.

R.W.I. [Signature] 5/24/79
AUTHORIZED SIGNATURE



Ferry Nuclear Power Plant - Unit 1 and 2
Construction Quality Section
Surveillance/Inspection Report (SIR)

L. K. Comstock
Contractor

33/Rev. IV
Spec. No.

SE 1363
SIR Number

L. K. Comstock Task Force #29 - Equipment
System/Component Name

TF-29-1
MPL Number

N/A
Location

2/20/83
Date

C
Inspec. Type
(A. B. C.)

5:08.1,2,3,5,6,7 & 28
Area of coverage
(Code No.)

33/Rev. 2
SIP Number-Rev.

DESCRIPTION of SURVEILLANCE/INSPECTION:

Concern #1 There appears to be no standardized method to filling out
Form #21, Insulation Resistance/Continuity Test Report. The
forms have been altered by the craft to suit their own
interpretation. Often, the results are indecipherable.

Corrective action documentation - (NRs - ARs - CARs)

Measuring/Inspection Tools I.D.: N/A

Remarks:

Robert G. Peters
Inspector

Fernon K. Higaki 2/27/83
Reviewed - Resp OE Date

Approved - Lead OE Date

L. K. Comstock
Contractor

SP-33/Rev. IV
Spec. No.

SE 1363
SIR Number

2.) Impact on current work: None - corrective action appears to have been taken. * Further inprocess audits are required to ensure that training described below has been effective.

3.) Actions taken/planned: LKC Procedure 4.3.18 Rev. date 5/06/80, item 3.1.9 addresses a standard method on information that must be indicated in the filling out of Form #21 (Insulation Resistance/Continuity Test Records) to standardize form fill out. LKC craft training was conducted on 8/02/82, 9/23/82, and 10/08/82 (see attached) to assure that LKC craft performing Megger/Continuity Test understand procedure requirements. In addition, a record check by CQS was performed on eight (8) Form #21's (see attached) to verify the effectiveness of the training, the results of the training and CQS check were found to be acceptable.

As a result of the LKC Task Force concern LCK QC issued IR #5407 (see attached) which addresses the review and assessment of all previous Form #21's for acceptability to procedure requirements and the initiation of NR's where required. This SIR will remain open until all IR Corrective Action is complete and evaluated by CQS.

- 4.) List of Attachments:
- Attachment #1 - IR #5407
 - Attachment #2 - LKC Procedure 4.3.18 rev. 5/06/80, item 3.1.9
 - Attachment #3 - LKC craft training documentation
 - Attachment #4 - Form #21 (Records check)

* Actions or documentation requiring follow-up. *fx 2/27/83*



INFORMATION ONLY

- 3.1.7.3 Ohmmeter - resistance less than 100 Ohms.
- 3.1.7.4 Phone - clearly audible communication established.
- 3.1.7.5 Megger - needle shall deflect sharply toward low resistance end of scale upon discharging of conductor to ground.
- 3.1.8 Automated test equipment, designed to perform required functions, may be used in lieu of manual testing, provided that the machine is in current calibration and performs a self-check of its functions. Use of automated equipment shall require PROJECT approval prior to application.
- 3.1.9 A record shall be made and kept for all tests governed by this procedure. The record must indicate the following: (Use Form #21, Attached).
 - 3.1.9.1 Identification and location of the unit of cable under test.
 - 3.1.9.2 Identification of persons performing the test, and date test was performed.
 - 3.1.9.3 Test Equipment used, by serial number or identification number, and associated calibration due date(s).
 - 3.1.9.4 Test conditions and/or procedure used. (i.e. megger voltage, etc.).
 - 3.1.9.5 Temperature and relative humidity (ambient), thermometer used and calibration due date.
 - 3.1.9.6 Test measurements obtained, with units identified (i.e. ohms, megohms, etc.).
 - 3.1.9.7 Acceptability of tests, either by conformance to specified requirements, or within acceptance limits of this procedure. (QC Inspector).
 - 3.1.9.8 Identification of inspector witnessing or verifying the test. (If applicable).
 - 3.1.9.9 Reference to corrective action documents, if applicable.
 - 3.1.9.10 Remarks, as necessary to explain methods, identify retests, or note peculiar conditions or circumstances related to the test.

PREPARED	APPROVED	REVISED	TITLE	ORIG. DATE	REV. DATE	PAGE
ROM	RPR	TWP	PROCEDURE	3/13/79	5/6/80	3



INSPECTION REPORT NO. 5407

LOCATION N/A

DATE 2/16/83

INSPECTOR R. L. Power DC MA

REQUIREMENT AND REFERENCES: *this report has been generated as a result of the LKCE Jack Force review of equipment packages.*

(Report # TF29 ITEM 1)

FINDING: *there appears to be no standardized method to filling out form #21 Insulation Resistance/Continuity test report. the forms have been altered by the craft to suit their own interpretation. Often the results are unacceptable.*

RECOMMENDED CORRECTIVE ACTION: *① Give training to the craft on procedure 4.3.18 Messuring & Continuity, and required documentation to complete form #21 in accordance with procedure requirements.
② Review & assess messuring reports for acceptability per procedure requirements.
③ Initiate documentation per procedure 4.11, where required.*

REVIEWED BY [Signature]

ATTACHMENT ()

CORRECTIVE ACTION TAKEN:

RESPONSE DATE _____

AUTHOR _____

ATTACHMENT _____

DISPOSITION: ACCEPTABLE

UNACCEPTABLE

Signature _____

Date _____

COMMENTS: _____

PREPARED	APPROVED	REVISED	TITLE	ORIG. DATE	REV. DATE	PAGE
RSL	PRM	TWP	PROCEDURE	7/14/80	4/28/82	FORM #118



Perry Nuclear Power Plant

L.K. Comstock Engineering Company, Inc.

A COMSTOCK GROUP COMPANY

August 12, 1982

L. K. Comstock Co.
P. O. Box 97
Perry, Ohio 44001

Attention: T. J. Woodman
Project Manager

Control No:

Dear Tom:

Craft has been using the infinity symbol (∞) extensively. The Procedure states that the reading should be in ohms, megohms, etc. Procedure 4.3.18, Meggering and Continuity Testing, paragraph 3.1.9 states: "A record shall be made and kept for all tests governed by this procedure. The record must indicate the following: (Use Form #21, Attached)".

"Test measurements obtained, with units identified (i.e. ohms, megohms, etc.)."

Please have the Craft record the last full scale numerical reading and if the needle goes beyond this point record a plus (+) sign for example 200+. megohms.

Sincerely,

Larry G. Seese

LGS:ecr

cc: C. Mitchell
B. Troff
L. Garriott
J. Sumrow
J. Pruett
QC File
R. Bower



TRAINING ATTENDANCE LOG

THE FOLLOWING PERSONNEL ATTENDED TRAINING CONDUCTED BY J. OTIS (5142) (NAME)
FOREMAN (TITLE), ON 8/2/82 (DATE) FOR PERIOD 07:30 - 08:30 (TIME)

TOPICS COVERED INCLUDE: (INSTRUCTOR MAY ATTACH OUTLINE OR COURSE MATERIALS.)

MEGGERING & CONTINUITY TESTING 4.3.18

<u>NAME</u>	<u>EMPL #</u>	<u>NAME</u>	<u>EMPL #</u>
<u>A. Armstrong</u>	<u>5155</u>		
<u>F. Vazquez</u>	<u>5149</u>		
<u>J. Frank</u>	<u>5115</u>		
<u>M. Boyle</u>	<u>5147</u>		

REMARKS:

TRAINING ATTENDANCE LOG

THE FOLLOWING PERSONNEL ATTENDED TRAINING CONDUCTED BY Robert A. Halaska 4548,
4.3.18, ON 9.23.82 FOR PERIOD 1/2 HR.
 (TITLE) (DATE) (TIME)

TOPICS COVERED INCLUDE: (INSTRUCTOR MAY ATTACH OUTLINE OR COURSE MATERIALS.)

4.3.18 Measuring and Continuity Testing

<u>NAME</u>	<u>EMPL #</u>	<u>NAME</u>	<u>EMPL #</u>
<u>Joseph D. Dade</u>	<u>5182</u>		
<u>Raymond Conforti</u>	<u>5164</u>		
<u>Howard D. Duff</u>	<u>5174</u>		
<u>Larry E. Bazzell</u>	<u>5023</u>		
<u>Tom Thorne</u>	<u>4173</u>		
<u>Dennis Wilber</u>	<u>4564</u>		
<u>Larry C. Olayo</u>	<u>4058</u>		
<u>Robert E. Connor</u>	<u>5209</u>		
<u>Dale Martin</u>	<u>4725</u>		
<u>Nick Habraken</u>	<u>5253</u>		
<u>John Henderson</u>	<u>4059</u>		
<u>Jonathan Jahn</u>	<u>5220</u>		
<u>Larry Guervette</u>	<u>5975</u>		
<u>Jim Quinn</u>	<u>5240</u>		

REMARKS:

PREPARED	APPROVED	REVISED	TITLE	ORIG. DATE	REV. DATE	PAGE
ROM	AJT	RPR	PROCEDURE	1/4/77	2/15/78	FORM #57

2

TRAINING ATTENDANCE LOG

1380418

THE FOLLOWING PERSONNEL ATTENDED TRAINING CONDUCTED BY J. DOSSA
(NAME)

FOREMAN, ON 10-8-82 FOR PERIOD 10:30 A.M.
(TITLE) (DATE) (TIME)

TOPICS COVERED INCLUDE: (INSTRUCTOR MAY ATTACH OUTLINE OR COURSE MATERIALS)

PROCEDURE 4.3.18 MEGGERING AND CONTINUITY TESTING

<u>NAME</u>	<u>EMPL #</u>	<u>NAME</u>	<u>EMPL #</u>
<u>Robert J. Milnes</u>	<u>5215</u>		
<u>Donald L. ...</u>	<u>4729</u>		
<u>Carle Behemoth</u>	<u>5285</u>		
<u>SANFORD ZIFF</u>	<u>5281</u>		
<u>M. Bitterman</u>	<u>5268</u>		

ATTACHMENT " C" (4.1.4)

PREPARED ROM	APPROVED AJT	REVISED RPR	TITLE PROCEDURE	ORIG. DATE 1/4/77	REV. DATE 2/15/78	PAGE FORM #57
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CR54



INSULATION RESISTANCE/CONTINUITY TEST REPORT

1C51C 222B

TEST PROCEDURE REF: 4.3.18 SYSTEM NA FILE # OR CABLE #

EQUIPMENT BEING TESTED		TEST INSTRUMENT	TEST PERFORMED BY:
NAME	<u>EKB-19</u>	NAME	<u>AR</u>
MODEL/CLASS	<u>NA</u>	SERIAL #	<u>LKC 6-221</u>
VOLTAGE	<u>600</u>	RANGE USED	<u>MΩ</u>
SERIAL #	<u>NA</u>	VOLTAGE APPLIED	<u>500</u>
LOCATION	<u>CC654/IB639</u>	CAL. DUE DATE	<u>2 23 83</u>
DRY BULB	<u>69°F</u>	WET BULB	<u>57°F</u>
		REL. HUMIDITY	<u>47</u>
		INSTRUMENT #	<u>LKC 6-110</u>
		CAL. DUE DATE	<u>6 6 83</u>

COND. NO.	COLOR	CONTINUITY		MEGGER TEST						
		PASS	FAIL	COND.						
				PO-GR	RED-GR	WHT-GR	BLK-GR	RED-WHT	WHT-BLK	BLK-RED
1	BK	✓		200+ MΩ						
2	W	✓		200+ MΩ						
3	R	✓		200+ MΩ						
4	G	✓		200+ MΩ						
5										
6										
7										
8										
9										
10										

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY
P. O. NO. P-1600-Z
FERRY NUCLEAR POWER PLANT UNIT 1

CONTINUATION SHEET NA CONTINUITY METHOD: Phones CORRECTIVE ACTION# NA

REMARKS: REWORK # 26029
LKC 4468
LKC NA # 1011

ACCEPTANCE STATEMENT: ABOVE-LISTED VALUES FALL WITHIN ACCEPTANCE LIMITS.

QC INSPECTOR J. Sumrow DATE 12/22/82

PREPARED ROM	APPROVED EPR	REVISED TWP	TITLE PROCEDURE	ORIG. DATE 8/16/79	REV. DATE 5/6/80	PAGE FORM #21
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INSULATION RESISTANCE/CONTINUITY TEST REPORT

TEST PROCEDURE REF: 4-3-18 SYSTEM NA FILE # OR CABLE # 1C11T-20XA

EQUIPMENT BEING TESTED	TEST INSTRUMENT	TEST PERFORMED BY:
NAME <u>EKF-35</u>	NAME <u>AR</u>	<u>5115</u>
MODEL/CLASS <u>NA</u>	SERIAL # <u>LKCG-226</u>	<u>5147</u>
VOLTAGE <u>600</u>	RANGE USED <u>M-2</u>	
SERIAL # <u>NA</u>	VOLTAGE APPLIED <u>500</u>	DATE: <u>12-30-82</u>
LOCATION <u>IB.620/IB639</u>	CAL. DUE DATE <u>5-3-83</u>	INSTRUMENT # <u>LKCG-229</u>
DRY BULB <u>62</u> °F; WET BULB <u>57</u> °F; REL. HUMIDITY <u>74</u>	CAL. DUE DATE <u>5-19-83</u>	

CABLE # <u>1C11T-20XA</u>		CONTINUITY		MEGGER TEST						
COND. NO.	COLOR	PASS	FAIL	COND. (Ω)-GR	RED-GR	WHT-GR	BLK-GR	RED-WHT	WHT-BLK	BLK-RED
1	<u>YELLOW #1</u>	<u>✓</u>		<u>200M</u>						
2	<u>PINK #1</u>	<u>✓</u>		<u>200M</u>						
3	<u>YELLOW #2</u>	<u>✓</u>		<u>200M</u>						
4	<u>PINK #2</u>	<u>✓</u>		<u>200M</u>						
5	<u>YELLOW #3</u>	<u>✓</u>		<u>200M</u>						
6	<u>PINK #3</u>	<u>✓</u>		<u>200M</u>						
7	<u>YELLOW #4</u>	<u>✓</u>		<u>200M</u>						
8	<u>PINK #4</u>	<u>✓</u>		<u>200M</u>						
9	<u>YELLOW #5</u>	<u>✓</u>		<u>200M</u>						
10	<u>PINK #5</u>	<u>✓</u>		<u>200M</u>						

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY
P.O. NO. P 1600 Z
PERRY NUCLEAR POWER PLANT - UNIT 1

CONTINUATION SHEET CONTINUITY METHOD PHONES CORRECTIVE ACTION# NA

REMARKS:

ACCEPTANCE STATEMENT: ABOVE-LISTED VALUES FALL WITHIN ACCEPTANCE LIMITS.

QC INSPECTOR [Signature] DATE 1/11/83

PREPARED ROM	APPROVED RPR	REVISED TWP	TITLE PROCEDURE	ORIG. DATE 8/16/79	REV. DATE 5/6/80	PAGE FORM #21
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INSULATION RESISTANCE/CONTINUITY TEST REPORT
(CONTINUATION SHEET)CABLE # OR
FILE # 1C11T-20XA

CABLE # <u>1C11T-20XA</u>		CONTINUITY		MEGGER TEST						
COND. NO.	COLOR	PASS	FAIL	CE-TO. Ω-GR	RED-GR	WHT-GR	BLK-GR	RED-WHT	WHT-BLK	BLK-RED
11	YELLOW #6	✓		200 ⁺ M						
12	PINK #6	✓		200 ⁺ M						
13	YELLOW #7	✓		200 ⁺ M						
14	PINK #7	✓		200 ⁺ M						
15	YELLOW #8	✓		200 ⁺ M						
16	PINK #8	✓		200 ⁺ M						
17	YELLOW #9	✓		200 ⁺ M						
18	PINK #9	✓		200 ⁺ M						
19	YELLOW #10	✓		200 ⁺ M						
20	PINK #10	✓		200 ⁺ M						
21	YELLOW #11	✓		200 ⁺ M						
22	PINK #11	✓		200 ⁺ M						
23	YELLOW #12	✓		200 ⁺ M						
24	PINK #12	✓		200 ⁺ M						
25	YELLOW #13	✓		200 ⁺ M						
26	PINK #13	✓		200 ⁺ M						
27	YELLOW #14	✓		200 ⁺ M						
28	PINK #14	✓		200 ⁺ M						
29	YELLOW #15	✓		200 ⁺ M						
30	PINK #15	✓		200 ⁺ M						
31	YELLOW #16	✓		200 ⁺ M						
32	PINK #16	✓		200 ⁺ M						
33	YELLOW #17	✓		200 ⁺ M						
34	PINK #17	✓		200 ⁺ M						
35	YELLOW #18	✓		200 ⁺ M						

THE CLEVELAND ELECTRIC
ILLUMINATING COMPANY
P. O. NO. P-1603-Z
FERRY NUCLEAR POWER
PLANT - UNIT 1PREPARED
ROMAPPROVED
RPRREVISED
TWPTITLE
PROCEDUREORIG. DATE
3/13/79REV. DATE
5/6/80PAGE
CONT.
FORM #21

JS. 1/11/83



INSULATION RESISTANCE/CONTINUITY TEST REPORT
(CONTINUATION SHEET)

CABLE # OR
FILE # IC117-20XA

CABLE # <u>IC117-20XA</u>		CONTINUITY		MEGGER TEST						
COND. NO.	COLOR	PASS	FAIL	COND. (Ω)-GR	RED-GR	WHT-GR	BLK-GR	RED-WHT	WHT-BLK	BLK-RED
11	PINK #18	✓		200M						
12	YELLOW #19	✓		200M						
13	PINK #19	✓		200M						
14	YELLOW #20	✓		200M						
15	PINK #20	✓		200M						
16	GRND.	✓								
17	SHLD.	✓								
18										
19										
20										
21										
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35										

THE CLEVELAND ELECTRIC
ILLUMINATING COMPANY
P. O. NO. P. 1600 / Z
PERKY NUCLEAR POWER
PLANT - UNIT 1

PREPARED ROM	APPROVED RPR	REVISED TWP	TITLE PROCEDURE	ORIG. DATE 3/13/79	REV. DATE 5/6/80	PAGE CONT. FORM #21
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J.S. 1/11/82



INSULATION RESISTANCE/CONTINUITY TEST REPORT

TEST PROCEDURE REF: 4.3.18 SYSTEM NA FILE # OR CABLE # 2E23-C001

EQUIPMENT BEING TESTED	TEST INSTRUMENT	TEST PERFORMED BY:
NAME <u>HPCS Pump motor</u>	NAME <u>AR</u>	<u>4725</u>
MODEL/CLASS <u>5K6357XL13A</u>	SERIAL # <u>LKC-6-328</u>	<u>LKC-6-269</u> ^{QIN} <u>2-22-83</u>
VOLTAGE <u>4KV</u>	RANGE USED <u>ML</u>	<u>James Pruitt QC</u>
SERIAL # <u>EWJ525001</u>	VOLTAGE APPLIED <u>1000V</u>	DATE: <u>2-24-83</u>
LOCATION <u>574 AUK-2</u>	CAL. DUE DATE <u>7-3-83</u>	INSTRUMENT # <u>LKC-6-269</u>
DRY BULB <u>47</u> °F; WET BULB <u>45</u> °F; REL. HUMIDITY <u>88%</u>	CAL. DUE DATE <u>5-19-83</u>	<u>2/24/83</u>

COND. NO.	COLOR	CONTINUITY		MEGGER TEST							
		PASS	FAIL	(¹⁰⁰⁰ V)-GR	RED-GR	WHT-GR	BLK-GR	RED-WHT	WHT-BLK	BLK-RED	
1	T1			1500MA 750MA							
2	T2			1500MA							
3	T3			1500MA							
4											
5											
6											
7											
8											
9											
10											

CONTINUATION SHEET CONTINUITY METHOD NA CORRECTIVE ACTION# NA

REMARKS: NA

ACCEPTANCE STATEMENT: ABOVE-LISTED VALUES FALL WITHIN ACCEPTANCE LIMITS.

QC INSPECTOR Philip Romano Level II DATE 2-25-83

PREPARED ROM	APPROVED RFR	REVISED TWP	TITLE PROCEDURE	ORIG. DATE 8/16/79	REV. DATE 5/5/80	PAGE FORM #21
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INSULATION RESISTANCE/CONTINUITY TEST REPORT

TEST PROCEDURE REF: 4.3.18 SYSTEM NA FILE # OR CABLE # 1R22-5014

EQUIPMENT BEING TESTED		TEST INSTRUMENT	TEST PERFORMED BY:
NAME <u>BREAKER 4A P/T</u>		NAME <u>AR</u>	<u>5115</u>
MODEL/CLASS <u>SW.GEAR</u>		SERIAL # <u>LK6-328</u>	<u>James Pruitt - QC</u>
VOLTAGE <u>4160</u>		RANGE USED <u>MΩ</u>	DATE: <u>2-24-83</u>
SERIAL # <u>NA</u>		VOLTAGE APPLIED <u>1000</u>	INSTRUMENT # <u>LK6-269</u>
LOCATION <u>IB 620</u>		CAL. DUE DATE <u>7-3-83</u>	CAL. DUE DATE <u>5-19-83</u>
DRY BULB <u>38</u> °F; WET BULB <u>55</u> °F; REL. HUMIDITY <u>83</u>			

COND. NO.	COLOR	CONTINUITY		MEGGER TEST							
		PASS	FAIL	(E)-GR	RED-GR	WHT-GR	BLK-GR	RED-WHT	WHT-BLK	BLK-RED	
1	1			2K ^T MΩ							
2	2			2K ^T MΩ							
3	3			2K ^T MΩ							
4	4			2K ^T MΩ							
5											
6											
7											
8											
9											
10											

CONTINUATION SHEET CONTINUITY METHOD NA CORRECTIVE ACTION# NA

REMARKS: NA

ACCEPTANCE STATEMENT: ABOVE-LISTED VALUES FALL WITHIN ACCEPTANCE LIMITS.

QC INSPECTOR Philip Coriano Level II DATE 2-25-83

PREPARED ROM	APPROVED RPR	REVISED TWP	TITLE PROCEDURE	ORIG. DATE 8/16/79	REV. DATE 5/6/80	PAGE FORM #21
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INSULATION RESISTANCE/CONTINUITY TEST REPORT

TEST PROCEDURE REF: 4.3-18

SYSTEM NA

FILE # OR CABLE # 1R22-515

EQUIPMENT BEING TESTED	TEST INSTRUMENT	TEST PERFORMED BY:
NAME <u>BREAKER 4B P/T</u>	NAME <u>AR</u>	<u>5115</u>
MODEL/CLASS <u>SW. GEAR</u>	SERIAL # <u>LK6-328</u>	<u>James Pruitt - QC</u>
VOLTAGE <u>4160 VOLTS</u>	RANGE USED <u>MΩ</u>	
SERIAL # <u>NA</u>	VOLTAGE APPLIED <u>1000</u>	DATE: <u>2-24-83</u>
LOCATION <u>IB 620</u>	CAL. DUE DATE <u>7-3-83</u>	INSTRUMENT # <u>LK6-269</u>
DRY BULB <u>58</u> °F; WET BULB <u>55</u> °F; REL. HUMIDITY <u>83</u>		CAL. DUE DATE <u>5-19-83</u>

CABLE # <u>NA</u>		CONTINUITY		MEGGER TEST							
COND. NO.	COLOR	PASS	FAIL	COND (Ω)-GR	RED-GR	WHT-GR	BLK-GR	RED-WHT	WHT-BLK	BLK-RED	
1	1			2K ⁺ MΩ	Y	2/24/83					
2	2			2K ⁺ MΩ	Y	2/24/83					
3	3			2K ⁺ MΩ	Y	2/24/83					
4	4			2K ⁺ MΩ	Y	2/24/83					
5											
6											
7											
8											
9											
10											

CONTINUATION SHEET CONTINUITY METHOD NA CORRECTIVE ACTION# NA

REMARKS: NA

ACCEPTANCE STATEMENT: ABOVE-LISTED VALUES FALL WITHIN ACCEPTANCE LIMITS.

QC INSPECTOR Philip Romano Level II DATE 2-25-83

PREPARED ROM	APPROVED RPR	REVISED TWP	TITLE PROCEDURE	ORIG. DATE 8/16/79	REV. DATE 5/6/80	PAGE FORM #21
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INSULATION RESISTANCE/CONTINUITY TEST REPORT

TEST PROCEDURE REF: 4.3.18 SYSTEM NA FILE # OR CABLE # 2823-8014

EQUIPMENT BEING TESTED		TEST INSTRUMENT	TEST PERFORMED BY:
NAME <u>BREAKER 4A P/T</u>		NAME <u>AR</u>	<u>5316</u>
MODEL/CLASS <u>SW. GEAR</u>		SERIAL # <u>LKC 328</u>	<u>JAMES PRUITT - QC</u>
VOLTAGE <u>4160</u>		RANGE USED <u>m - r</u>	
SERIAL # <u>NA</u>		VOLTAGE APPLIED <u>1000</u>	DATE: <u>2-24-83</u>
LOCATION <u>FB 620</u>		CAL. DUE DATE <u>7-3-83</u>	INSTRUMENT # <u>LKC 6-269</u>
DRY BULB <u>50</u> °F; WET BULB <u>55</u> °F; REL. HUMIDITY <u>83</u>		CAL. DUE DATE <u>5-9-83</u>	

COND. NO.	COLOR	CONTINUITY		MEGGER TEST							
		PASS	FAIL	^{COND} GR-GR	RED-GR	WHT-GR	BLK-GR	RED-WHT	WHT-BLK	BLK-RED	
1	1			2K ⁺ MΩ	✓	2/24/83					
2	2			2K ⁺ MΩ	✓	2/24/83					
3	3			2K ⁺ MΩ	✓	2/24/83					
4	4			2K ⁺ MΩ	✓	2/24/83					
5											
6											
7											
8											
9											
10											

CONTINUATION SHEET CONTINUITY METHOD NA CORRECTIVE ACTION# NA

REMARKS: NA

ACCEPTANCE STATEMENT: ABOVE-LISTED VALUES FALL WITHIN ACCEPTANCE LIMITS.

QC INSPECTOR Philip C. ... Level II DATE 2-25-83

PREPARED ROM	APPROVED RPR	REVISED TWP	TITLE PROCEDURE	ORIG. DATE 8/16/79	REV. DATE 5/6/80	PAGE FORM #21
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INSULATION RESISTANCE/CONTINUITY TEST REPORT

TEST PROCEDURE REF: 4.3.18 SYSTEM NA FILE # OR CABLE # 2R22-5015

EQUIPMENT BEING TESTED		TEST INSTRUMENT	TEST PERFORMED BY:
NAME <u>BREAKER 4B P/T</u>		NAME <u>AR</u>	<u>5316</u>
MODEL/CLASS <u>SW. GEAR</u>		SERIAL # <u>LKC 328</u>	<u>Jammy Pruitt - RC</u>
VOLTAGE <u>4160</u>		RANGE USED <u>M-2</u>	
SERIAL # <u>NA</u>		VOLTAGE APPLIED <u>1000</u>	DATE: <u>2-24-83</u>
LOCATION <u>IB 620</u>		CAL. DUE DATE <u>7-3-83</u>	INSTRUMENT # <u>LKCG-269</u>
DRY BULB <u>58</u> °F; WET BULB <u>55</u> °F; REL. HUMIDITY <u>83</u>		CAL. DUE DATE <u>5-19-83</u>	

COND. NO.	COLOR	CONTINUITY		MEGGER TEST							
		PASS	FAIL	GRN-GR	RED-GR	WHT-GR	BLK-GR	RED-WHT	WHT-BLK	BLK-RED	
1	1			2K+MΩ	Y	2/24/83					
2	2			2K+MΩ	Y	2/24/83					
3	3			2K+MΩ	Y	2/24/83					
4	4			2K+MΩ	Y	2/24/83					
5											
6											
7											
8											
9											
10											

CONTINUATION SHEET CONTINUITY METHOD NA CORRECTIVE ACTION# NA

REMARKS: NI

ACCEPTANCE STATEMENT: ABOVE-LISTED VALUES FALL WITHIN ACCEPTANCE LIMITS.

QC INSPECTOR Philip Romano Level II DATE 2-25-83

PREPARED ROM	APPROVED RPR	REVISED TWP	TITLE PROCEDURE	ORIG. DATE 8/16/79	REV. DATE 5/6/80	PAGE FORM #21
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INSULATION RESISTANCE/CONTINUITY TEST REPORT

TEST PROCEDURE REF: 4.3.18 SYSTEM NA FILE # OR CABLE # 2E12C002C

EQUIPMENT BEING TESTED	TEST INSTRUMENT	TEST PERFORMED BY:
NAME <u>RHR PUMP MOTOR</u>	NAME <u>AR</u>	<u>5715</u>
5K633 8X C105A MODEL/CLASS <u>F</u>	SERIAL # <u>LK6-328</u>	
VOLTAGE <u>4KV</u>	RANGE USED <u>MΩ</u>	<u>James Pruitt QC</u>
SERIAL # <u>HMT 825026</u>	VOLTAGE APPLIED <u>1000</u>	DATE: <u>2-24-83</u>
LOCATION <u>AXD599 SOUTH</u>	CAL. DUE DATE <u>7-3-83</u>	INSTRUMENT # <u>LK6-269</u>
DRY BULB <u>51</u> °F; WET BULB <u>50</u> °F; REL. HUMIDITY <u>93</u>	CAL. DUE DATE <u>5-19-83</u>	

COND. NO.	COLOR	CONTINUITY		MEGGER TEST										
		PASS	FAIL	COND. (Ω)-GR	RED-GR	WHT-GR	BLK-GR	RED-WHT	WHT-BLK	BLK-RED				
1	T1	<u>27</u>	<u>2-24-83</u>	<u>2K⁺</u>	<u>MΩ</u>	<u>Y</u>	<u>2/24/83</u>							
2	T2			<u>2K⁺</u>	<u>MΩ</u>	<u>Y</u>	<u>2/24/83</u>							
3	T3			<u>2K⁺</u>	<u>MΩ</u>	<u>Y</u>	<u>2/24/83</u>							
4														
5														
6														
7														
8														
9														
10														

CONTINUATION SHEET CONTINUITY METHOD NA CORRECTIVE ACTION# NA

REMARKS: N/A

ACCEPTANCE STATEMENT: ABOVE-LISTED VALUES FALL WITHIN ACCEPTANCE LIMITS.

QC INSPECTOR Philip Amaro Level II DATE 2-25-83

PREPARED ROM	APPROVED RPR	REVISED TWP	TITLE PROCEDURE	ORIG. DATE 8/16/79	REV. DATE 5/6/80	PAGE FORM #21
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Perry Nuclear Power Plant - Unit 1 and 2
Construction Quality Section
Surveillance/Inspection Report (SIR)

RED
□

SHEET 1 OF 3

L. K. COMSTOCK
Contractor

33/ IV
Spec. No.

SE - 1393
SIR Number

LKC TASK FORCE # TF - 29 (Item #4) - Equipment
System/Component Name

TF - 29- 4
MPL Number

N/A
Location

2/21/83
Date

"C"
Inspection Type
(A. B. C.)

5:08.1,2,3,5,6,7, & 28
Area of coverage
(Code No.)

33/ Rev 2
SIP Number-Rev.

DESCRIPTION of SURVEILLANCE/INSPECTION:

LKC TASK FORCE ITEM:

4. It appears that a large number of Material Receiving Reports have been lost. It also appears that an attempt has been made to redocument the Receipt Inspection without any back-up information.

N/A
Corrective action documentation - (NRs - ARs - CARs)

Measuring/Inspection Tools I.D.: N/A

Remarks:

Robert G. Peter
Inspector

Yunon K. Higaki 2/21/83
Reviewed - Resp. QE Date

Approved - Lead QE Date

L. K. Comstock
Contractor

SP- 33/ IV
Spec. No.

SE - 1393
SIR Number

IMPACT ON CURRENT WORK: None

ACTIONS TAKEN/PLANNED:

Missing Material Receiving Reports (form # 39A's) do not impact current field activities. The initial receipt inspection of equipment is performed by the Site warehouse receipt inspectors when the equipment is physically placed at the Perry Plant from the Vendor Supplier. All necessary receipt inspections are performed and documented by the Site Warehouse Personnel such as: shipping and handling damage, quantity, description of equipment, identification, applicable maintenance requirements, etc. At the time of equipment jurisdictional transfer to the respective contractors, a Site Organization warehouse issue ticket (form # 62) is completed and signed by CQS receipt inspection. When L. K. Comstock receives safety-related equipment from Site warehouse another receipt inspection is performed (by LKC QC) and documented on a form 39A.

LKC has transferred the filing of Material Receiving Reports to the QC Records trailer. This provides for file maintenance and restricted access to the records. This will ensure that these forms are controlled and not misplaced.

This Task Force Concern is specifically regarding the equipment received from the Owner - form 39A.

LKC has reviewed and evaluated this Task Force Concern and has issued IR # 5410 (attached) to address the problem. This SIR will remain open until IR # 5410 is closed. After CQS acceptance of IR # 5410 this SIR will be closed.

ATTACHMENTS:

- # 1 - LKC IR # 5410 issued to track TF-29, item # 4



Attachment # 1
Pg 3 of 3

INSPECTION REPORT NO. 5410

LOCATION N/A DATE 2/16/83

INSPECTOR R. L. Power QC Mgr.

REQUIREMENT AND REFERENCES: *this report has been generated as a result of IKCE Task Force review of Equipment Installation packages.*

(Report # TF-29 ITEM 4)

FINDING: *It appears that a lot of material receiving reports have been lost. It also appears that an attempt has been made to re-document the Receipt Inspection without backup information.*

- RECOMMENDED CORRECTIVE ACTION: ① *Review of access equipment packages to insure receipt reports are in file.*
- ② *INITIATE DOCUMENTATION PER PROCEDURE 4.11.1 WHERE REQUIRED.*
- ③ *ESTABLISH A RECORDS CONTROL W/ LIMITED ACCESS TO INSURE NO FURTHER RECORDS ARE MISSING.*
- REVIEWED BY [Signature] 2/16/83 ATTACHMENT ①

CORRECTIVE ACTION TAKEN:

③ *ALL QC RECORDS HAVE BEEN TRANSFERRED TO THE QC RECORDS TRAILER. NO RECORDS ARE REMOVED WITHOUT A TRANSMITTAL. LIMITED ACCESS TO TRAILER HAS BEEN ESTABLISHED.*

RESPONSE DATE 2/18/83 AUTHOR [Signature] ATTACHMENT ①

DISPOSITION: ACCEPTABLE UNACCEPTABLE

COMMENTS: _____

Signature _____ Date _____

PREPARED	APPROVED	REVISED	TITLE	ORIG. DATE	REV. DATE	PAGE
RSL	PRM	TWP	PROCEDURE	7/14/80	4/28/82	FORM #118

Perry Nuclear Power Plant - Unit 1 and 2
 Construction Quality Section
 Surveillance/Inspection Report (SIR)



SHEET 1 OF 21

<u>L. K. Comstock</u>	<u>Sp 33 Rev IV</u>	<u>5E 1383</u>
Contractor	Spec. No.	SIR Number
<u>LKC Task Force # 26 - Penetrations</u>		<u>TF 26-1</u>
System/Component Name		MPL Number
<u>N/A</u>		<u>2-24-83</u>
Location		Date
<u>C</u>	<u>5:08.1</u>	<u>33 Rev II</u>
Inspec. Type (A. B. C.)	Area of coverage (Code No.)	SIP Number-Rev.

DESCRIPTION of SURVEILLANCE/INSPECTION:

LKC Task Force Item:

#1 See Attachment 2 Pages

REF. LKC TR 5195

N/A

Corrective action documentation - (NRs - ARs - CARs)

Measuring/Inspection Tools I.D.: N/A

Remarks: See Attached

G. L. B. V. 2-27-83
 Inspector

Theron K. Hyski 2/27/83
 Reviewed - Resp. QE Date

Approved - Lead QE Date

Perry Nuclear Power Plant - Unit 1 and 2
Construction Quality Section
Surveillance/Inspection Report (SIR) Continuation SHEET 4 OF 21

LK COMSTOCK

Contractor

SP- 33

Spec. No.

SE-1383

SIR Number

IMPACT ON CURRENT WORK - N/A

ACTIONS TAKEN/PLANNED

A. This concern was a misinterpretation by the Task Force of the Pullman Power Products Program. Attached is the Pullman letter dated July 19, 1982, addressing this concern. The letter states that the date by the QA approval on form 7026-102 is for the date the rod is returned. This date should be regarded as being part of the "return" column and not the row showing QA approval.

B. The Pullman letter also addresses this concern. At the time of the Task Force Review the field weld process sheets were for "information only". The information is filled in during final QA Review.

ATTACHMENTS

- #1 LKC IR 5195 1 page
- #2 Pullman letter dated July 19, 1982 2 pages
- #3 7 pages weld rod storage requisition forms
- #4 7 pages PP field weld process sheets

Perry Nuclear Power Plant - Unit 1 and 2
 Construction Quality Section
 Surveillance/Inspection Report (SIR)

<u>L. K. COMSTOCK</u> Contractor	<u>SP-33, Rev. IV</u> Spec. No.	<u>SE-1385</u> SIR Number
<u>LKC TASK FORCE #26 - Penetrations</u> System/Component Name		<u>TF-26-³2-26⁸³</u> MPL Number
<u>N/A</u> Location		<u>2/24/83</u> Date
<u>C</u> Inspec. Type (A. B. C.)	<u>5:08.1</u> Area of coverage (Code No.)	<u>33 Rev. 2</u> SIP Number-Rev.

DESCRIPTION of SURVEILLANCE/INSPECTION:

LKC Task Force Item #3 - SPEC 33-4549-00, Page V23, Section 5:08.1, Paragraph 4C states:

4.0 "Before welding, the contractor shall:

4C Attach backing ring to nozzle for attachment."

There is no evidence that a backing ring was installed or that the step was deleted. Pullman Power does not indicate a backing ring was installed. Westinghouse Specification Drawing E-40048 indicates a backing ring to be installed on the two 18" penetrations. (See Attachment C)

Corrective action documentation - (NRs - ARs - CARs) N/A

Measuring/Inspection Tools I.D.: N/A

Remarks: See Attached

Will J. Boyd 2-27-83
Inspector

Sharon K. Higaki 2/27/83
Reviewed - Resp. QE Date

Approved - Lead QE Date

L. K. COMSTOCK
Contractor

SP- 33
Spec. No.

SE 1385
SIR Number

IMPACT ON CURRENT WORK:

Yes, see stop work - LKC SWN-11 dated 2/17/83 attached that addressed Unit 2 medium voltage penetrations.

ACTION TAKEN/PLANNED:

NR# LKC 1769 was generated to document this nonconformance for Unit 1 penetration already installed. A stop work was issued until acceptable resolution of NR LKC 1769.

ATTACHMENTS

- #1 LKC IR 5198, 1 page
- #2 NR # LKC 1769 , 2 pages
- #3 LKC Stop Work Notice # 11 dated 2/17/83, 1 page
- #4 Westinghouse drawing for the penetration, 1 page

Perry Nuclear Power Plant - Unit 1 and 2
 Construction Quality Section
 Surveillance/Inspection Report (SIR)

SHEET 1 OF 6

L. K. COMSTOCK
 Contractor

SP-33/REV. IV
 Spec. No.

SE-1386
 SIR Number

L. K. COMSTOCK TASK FORCE #26 - Penetrations
 System/Component Name

TF 26-4
 MPL Number

N/A
 Location

2/24/83
 Date

C
 Inspec. Type
 (A. B. C.)

5:08.1
 Area of coverage
 (Code No.)

33 REV. II
 SIP Number-Rev.

DESCRIPTION of SURVEILLANCE/INSPECTION:

LKC TASK FORCE ITEM #4 - There is no documentation to add Penetration 1R72-S029. SP-33-4549-00, Section 5:08.1, specifies the installation of two (2) 18-inch penetrations and twenty-six (26) 12-inch penetrations, per unit. The Equipment and Material F.B.O. list specifies a total of 28 penetrations. Additionally, GAI Drawing D-215-443, Rev. J, addresses 35 Penetrations. Again, the proper documentation does not exist to add these additional penetrations.

Corrective action documentation - (NRs - ARs - CARs) N/A

Measuring/Inspection Tools I.D.: N/A

Remarks: See attached

G. M. J. B. D. 2-27-83
 Inspector

Suzon K. Higaki 2/27/83
 Reviewed - Resp. QE Date

Approved - Lead QE Date

Perry Nuclear Power Plant - Unit 1 and 2
Construction Quality Section
Surveillance/Inspection Report (SIR) Continuation SHEET 2 OF 6

L. K. COMSTOCK
Contractor

SP-33
Spec. No.

CS-1386
SIR Number

✓ -38
2-24-83

LKC

REF: LKC IR 5200

TF-26 CONCERN #4

IMPACT ON CURRENT WORK: N/A

ACTION TAKEN/PLANNED: ECN 9252-33-2035 dated 8/11/82 was issued adding equipment to the material section 5:05 os SP-33. IR 72S029 was added to SP-33 on the above-mentioned ECN.

ATTACHMENTS: Excerpt from: #1) LKC IR 5200
#2) ECN 9252-33-2035, 2 pages



THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

P.O. BOX 97 ■ PERRY, OHIO 44081 ■ TELEPHONE (216) 259-3737 ■ ADDRESS-10 CENTER ROAD

Serving The Best Location in the Nation
PERRY NUCLEAR POWER PLANT

March 3, 1983

PY-S/CON 5820 QA

L. K. Comstock
10 Center Road
Perry, Ohio 44081

Attention: Mr. R. Bower

RE: Installation of Electrical
Penetrations

Dear Dick;

CQS is instituting a mandatory hold point on the welding of Unit 2 electrical penetrations per LKC procedure 4.3.10, "Installation of Electrical Penetrations". CQS shall be notified 24 hours prior to the start of this activity.

Your attention to this matter is appreciated.

Sincerely,

K. J. Cimorelli
Quality Engineer/Electrical

J. S. Kerr
Unit Supervisor Elec./I&C

JSK/KJC/dam

cc: D. Graneto W140
T. Stear TW2
T. Woodman LKC
J. Furness TQ5
300.204.2
303.033.2.1

INSPECTION REPORT 172

REVISED ITEM ID OR SURV NO: IR725001 + IR725002 ITEM NAME: Electrical Penetrations

TAG NUMBER ISSUED BY: N/A R. Bower 2/28/83

REF. DOCUMENT: INCLUDE ACCEPT CRITERIA DOCUMENT NOS. AND REVISION

This report generated as a result of LRCE Tank Fire Review of the electrical penetrations TF#26. Items 5

DESCRIPTION OF INSP RESULTS: Discrepancy on the sequence of events and the date that the R.C. Inspectors made their verifications on IR725001 and IR725002.

FOR INFORMATION ONLY

DISPOSITION REQ: YES NO REVIEWED BY: [Signature] LEVEL II DATE 2/28/83

RECOMMENDED DISPO.: Both penetrations, (IR725001 + 5002), were received on 11/24/80 and left crated for transport. They were totally uncrated and completely verified on 2/2/81. In addition, IR 339 (cont.)

DISPOSITIONED BY: [Signature] DEPT. QC DATE 2/28/83

REVIEWED BY: R. L. Bower DATE 2/28/83

EQUIPMENT USED: N/A
COMPLETED BY: N/A

CORRECTIVE ACT.: ACCEPT REJECT N/A

CORRECTIVE ACT. VERIFIED: NAME R. L. Bower LEVEL III DATE 2/28/83

REVIEWED BY: NAME _____ LEVEL _____ DATE _____

PREPARED <u>TWP</u>	APPROVED <u>RLB</u>	REVISED <u>JJC</u>	TITLE <u>PROCEDURE</u>	ORIG. DATE <u>10/10/78</u>	REV. DATE <u>1/13/83</u>	PAGE <u>FORM #118</u>
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was written dated 2/3/51 to document that
the tube assembly had not been buffed
on IR72-5001.

FOR INFORMATION
ONLY

INSPECTION REPORT

IR NUMBER: 5202 REV: 1 ITEM ID OR SURV NO: NR 666 ITEM NAME: Non-compliance Report

TAG NUMBER ISSUED BY: N/A R. Bower By *[Signature]* 2/28/83

REF. DOCUMENT: INCLUDE ACCEPT CRITERIA DOCUMENT NOS. AND REVISION

This report generated as a result of LKCE Task Force Review of the electrical penetrations TF#26 - Item 6

DESCRIPTION OF INSP RESULTS: NR#666 has been reissued under

Rev. 1 after 16 months. No new welding to warrant a new revision.

FOR INFORMATION ONLY

DISPOSITION REQ: YES NO REVIEWED BY: *[Signature]* LEVEL: IV DATE: 2/28/83

RECOMMENDED DISPO.: *The reason for the delay was the uncertainty as to which organization would do the painting. This has been resolved by Project Organization.*

DISPOSITIONED BY: *[Signature]* DEPT.: QC DATE: 2/29/83

REVIEWED BY: R. L. Bower DATE: 2/28/83

EQUIPMENT USED: N/A
COMPLETED BY: N/A

CORRECTIVE ACT. ACCEPT REJECT N/A

CORRECTIVE ACT. VERIFIED: NAME: R. L. Bower LEVEL: III DATE: 2/28/83

REVIEWED BY: NAME: *[Signature]* LEVEL: IV DATE: 2/28/83

PREPARED TWP	APPROVED RLB	REVISED JJC	TITLE PROCEDURE	ORIG. DATE 10/10/78	REV. DATE 1/13/83	PAGE FORM 4118
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INSPECTION REPORT

IR NUMBER	REV	ITEM ID OR SURV NO	ITEM NAME
5200	1	IR 725029	Inspection

TAG NUMBER ISSUED BY: N/A

REF. DOCUMENT: R. L. Power QC No. 2-26-83

INCLUDE ACCEPT CRITERIA * DOCUMENT NOS. AND REVISION

DESCRIPTION OF INSP RESULTS: This report generated was result of XCF Tack Force Review of the electrical penetrations TF #26 - Item 4

No documentation to add penetration IR 725029 to the spec. 33 contract.

FOR INFORMATION ONLY

FOR INFORMATION ONLY

DISPOSITION REQ: YES NO

REVIEWED BY: [Signature] LEVEL II DATE 2/26/83

RECOMMENDED DISPO.: ECN 9252-33-2035 Rev. - dated 8/11/82 was written to add electrical penetration IR 725029 to spec. 33 contract.

DISPOSITIONED BY: [Signature] DEPT. QC DATE 2/24/83

REVIEWED BY: R. L. Power DATE 2-26-83

EQUIPMENT USED: N/A

COMPLETED BY: N/A

CORRECTIVE ACT. ACCEPT REJECT 94

CORRECTIVE ACT. VERIFIED: NAME R. L. Power LEVEL III DATE 2-26-83

REVIEWED BY: NAME [Signature] LEVEL III DATE 2-26-83

PREPARED TWP	APPROVED RLB	REVISED JJC	TITLE PROCEDURE	ORIG. DATE 10/10/78	REV. DATE 1/13/83	PAGE FORM 4118
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INSPECTION REPORT

IR NUMBER	REV	ITEM ID OR SURV NO	ITEM NAME
5196	1	SEE BELOW	ELECTRICAL PENETRATIONS

APPROVED BY: R. L. Brewer QC Mgr. 2-26-83

REF. DOCUMENT: INCLUDE ACCEPT CRITERIA DOCUMENT NOS. AND REVISION

THIS REPORT GENERATED AS A RESULT OF LKCE TASK FORCE REVIEW OF THE ELECTRICAL PENETRATIONS. REPORT TF #26, ITEM 2.

DESCRIPTION OF INSP RESULTS: ORIGINAL DOCUMENTATION FOR UNIT 1 PENETRATIONS IS ON FILE IN LKCE OC RECORDS. LETTER PY-S/CON 4016 QA DATED 12-3-81 REQUESTED ALL ORIGINALS TO BE TRANSMITTED TO SITE.

FOR INFORMATION ONLY

DISPOSITION REQ: YES NO REVIEWED BY: [Signature] LEVEL I DATE 4/83

RECOMMENDED DISPO.: THE DOCUMENTATION REQUESTED DUE TO THE NRC INVESTIGATION AS NOTED ON THE LETTER (PYS/CON 4016 QA) DATED 12-3-81, WAS TRANSMITTED TO THE OWNER ON 12-5-81 (SEE LETTERS ATTACHED)

DISPOSITIONED BY: [Signature] DEPT. QC DATE 2/26/83

REVIEWED BY: R. L. Brewer DATE 2-26-83

EQUIPMENT USED: N/A

COMPLETED BY: N/A

CORRECTIVE ACT. ACCEPT REJECT

CORRECTIVE ACT. VERIFIED: NAME R. L. Brewer LEVEL III DATE 2-26-83

REVIEWED BY: NAME [Signature] LEVEL QA DATE 2-26-83

PREPARED	APPROVED	REVISED	TITLE	ORIG. DATE	REV. DATE	PAGE
TWP	RLB	JJC	PROCEDURE	10/10/78	1/13/83	FORM 8118

INSPECTION REPORT 1/2

REF. NUMBER	REV. ITEM ID OR SURV. NO.	ITEM NAME
5198	1	IR 72 5001 + IR 72 5002 Penetrations

TAG NUMBER ISSUED BY: N/A QC Mgr. 2-26-83

REF. DOCUMENT INCLUDE ACCEPT CRITERIA DOCUMENT NOS. AND REVISION

This report generated as a result of LKCF Task Force Review of the electrical penetrations report TF #24, Item 3

DESCRIPTION OF INSP RESULTS: No evidence that a locking ring was installed on the 18" penetrations (med. voltage IR 72-5001 + IR 72-5002).

FOR INFORMATION ONLY

FOR INFORMATION ONLY

DISPOSITION REQ. YES NO REVIEWED BY [Signature] LEVEL II DATE 2/26/83

RECOMMENDED DISPO. This concern noted by the Task Force was discussed in a meeting with PPP on July 16, 1982 and responded to (see concern #3) on July 19, 1982 (letter attached). After further evaluation it was determined that

DISPOSITIONED BY [Signature] DEPT. QC DATE 2/26/83

REVIEWED BY R. L. Bauer DATE 2-26-83

EQUIPMENT USED N/A

COMPLETED BY N/A

CORRECTIVE ACT. ACCEPT REJECT N/A

CORRECTIVE ACT. VERIFIED NAME R. L. Bauer LEVEL III DATE 2-26-83

REVIEWED BY NAME [Signature] LEVEL CAE DATE 2-26-83

PREPARED	APPROVED	REVISED	TITLE	ORIG. DATE	REV. DATE	PAGE
TWP	RLB	JJC	PROCEDURE	10/10/78	1/13/83	FORM #118

an NR should be initiated. NR 1769 was written
on 2/8/53 to address this concern (see copy of
NR attached) and a network order was
initiated for the remaining Unit 2 penetrations
(copy attached).

FOR INFORMATION
ONLY

4/04/83

ACTION REQUESTS

(PROGRAM E788755B)

CONSTRUCTION AUDIT R'S

- ALL AAR'S BY RESPONSIBLE DRG.

FILE NUMBER	RESP. ORG.	AUDIT NUMBER	AR NUMBER	APPEND B CRITERIA CODE	CAUSE CODE	LEAD AUDITOR	ISSUE DATE	RESPONSE DUE DATE	COMPLETION DUE DATE	ACC/REJ DATE	VERIFY DATE	ITEM COUNT	
3017031	PK	044	0023	0001	06	000	RDF	11/03/77	11/18/77	11/07/77	1/04/78	1/04/78	1

TOTAL # FINDINGS

212

TOTAL # OF PROC FINDINGS

53

PPP.

Dubey

250%

CONSTRUCTION AUDIT AR'S - ALL AAR'S BY RESPONSIBLE ORG.

FILE NUMBER	RESP ORG.	AUDIT NUMBER	AR NUMBER	APPEND B CRITERIA	CAUSE CODE	LEAD AUDITOR	ISSUE DATE	RESPONSE DUE DATE	COMPLETION DUE DATE	ACC/REJ DATE	VERIFY DATE	ITEM COUNT
3017031	PP 44-47	0022	0001	09	000	RDF	10/24/77	11/08/77	11/07/77	6/29/78	6/29/78	6/29/78
3017031	PP 44-47	0022	0002	07	000	RDF	10/24/77	11/08/77	11/07/77	6/29/78	6/29/78	6/29/78
3017031	PP 44-47	0048	0001	13	000	RDF	1/25/78	2/09/78	2/15/78	3/01/78	3/01/78	3/01/78
3017031	PP 44-47	0048	0002	08	000	RDF	1/25/78	2/09/78	2/15/78	3/01/78	3/01/78	3/01/78
3017031	PP 44-47	0048	0003	06	000	RDF	1/25/78	2/09/78	2/15/78	6/28/78	6/28/78	6/28/78
3017031	PP 44-47	0069	0001	06	000	GLK	4/04/78	4/07/78	5/04/78	5/23/78	5/23/78	5/23/78
3017031	PP 44-47	0069	0002	06	000	GLK	4/04/78	4/07/78	5/04/78	5/23/78	5/23/78	5/23/78
3017031	PP 44-47	0069	0003	06	000	GLK	4/04/78	4/07/78	5/04/78	5/23/78	5/23/78	5/23/78
3017031	PP 44-47	0137	0001	02	000	WRC	8/25/78	9/29/78	8/31/78	10/05/78	10/05/78	10/05/78
3017031	PP 44-47	0137	0002	12	000	WRC	8/25/78	9/29/78	8/31/78	9/06/78	9/06/78	9/06/78

NO OF ITEMS

10

CONSTRUCTION AUDIT AR'S - ALL AR'S BY RESPONSIBLE ORG.

FILE NUMBER	RESP ORG.	AUDIT NUMBER	AR NUMBER	APPEND B CRITERIA	CAUSE CODE	LEAD AUDITOR	ISSUE DATE	RESPONSE DATE	DUE DATE	COMPLETION DATE	ACC/REJ DATE	VERIFY DATE	ITEM COUNT
3017031	PPP	044	0163	0001	06	000	REC	9/26/78	10/17/78	10/13/78	12/05/78	12/05/78	
3017031	PPP	044	0163	0002	08	000	REC	9/26/78	10/17/78	10/13/78	12/05/78	12/05/78	
3017031	PPP	044	0163	0003	12	000	REC	9/26/78	10/17/78	10/13/78	12/05/78	12/05/78	
3017031	PPP	044	0163	0004	13	000	REC	9/26/78	10/17/79	3/05/79	3/06/79	3/06/79	
3017031	PPP	044	0163	0005	13	000	REC	9/26/78	10/17/78	10/13/78	12/06/78	12/06/78	
3017031	PPP	044	0216	0001	15	000	ALB	2/09/79	3/01/79	2/12/79	3/04/79	3/04/79	
3017031	PPP	044	0216	0002	15	000	RBM	2/09/79	3/01/79	2/12/79	4/12/79	4/12/79	
3017031	PPP	044	0331	0001	05	000	RBM	9/26/79	10/26/79	10/01/79	10/03/79	10/03/79	
3017031	PPP	044	0371	0001	08	000	EFP	1/30/80	2/29/80	2/20/80	8/31/81	8/31/81	
3017031	PPP	044	0371	0002	07	000	EFP	1/30/80			1/31/80	1/31/80	
3017031	PPP	044	0372	0001	12	000	RBM	1/22/80			1/22/80	1/22/80	
3017031	PPP	044	0372	0002	12	000	RBM	1/22/80			1/22/80	1/22/80	
3017031	PPP	044	0372	0003	12	000	RBM	1/22/80			1/22/80	1/22/80	
3017031	PPP	044	0394	0001	02	000	EFP	3/17/80	4/23/80	4/15/80	4/16/80	4/16/80	
3017031	PPP	044	0400	0001	10	000	WFW	4/17/80	4/28/80	4/23/80	4/24/80	4/24/80	
3017031	PPP	044	0400	0002	05	000	WFW	4/17/80	4/28/80	4/23/80	5/27/80	5/27/80	
3017031	PPP	044	0400	0003	05	000	WFW	4/17/80	4/28/80	4/23/80	5/27/80	5/27/80	

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3017031	PPP	044	0001	06	000	EFP	8/11/80	9/12/80	8/14/80	9/19/80	9/19/80	
3017031	PPP	044	0001	09	000	RBM	9/05/80	10/06/80	9/17/80	9/19/80	9/19/80	
3017031	PPP	044	0001	09	000	EFP	10/21/80	10/30/80	11/03/80	11/28/80	11/28/80	
3017031	PPP	044	0001	17	000	JBH	11/10/80	2/27/81	12/02/80	8/31/81	8/31/81	
3017031	PPP	044	0002	02	000	JBH	11/12/80	2/27/81	12/02/80	8/31/81	8/31/81	
3017031	PPP	044	0003	13	000	JBH	11/12/80	12/10/80	12/02/80	8/31/81	8/31/81	
3017031	PPP	044	0004	11	000	JBH	11/12/80	12/10/80	12/02/80	6/01/82	6/01/82	
							FORM-39 LEAK TEST INSPECTION SHEETS REVISE PROCEDURE					
3017031	PPP	044	0005	14	000	CWH	11/12/80	12/10/80	12/02/80	12/29/80	12/29/80	
3017031	PPP	044	0001	05	000	MAB	2/11/81	3/02/81	2/25/81	3/10/81	3/10/81	
3017031	PPP	044	0002	05	000	MAB	2/11/81	3/02/81	2/25/81	3/02/81	3/02/81	
3017031	PPP	044	0003	05	000	MAB	2/11/81	3/02/81	2/25/81	3/26/81	3/26/81	
3017031	PPP	044	0004	05	000	MAB	2/11/81	3/02/81	2/25/81	3/26/81	3/26/81	
3017031	PPP	044	0005	15	000	MAB	2/11/81	4/03/81	2/25/81	8/31/81	8/31/81	
3017031	PPP	044	0006	06	000	MAB	2/11/81	3/02/81	2/25/81	3/26/81	3/26/81	
3017031	PPP	044	0007	05	000	MAB	2/11/81	4/03/81	2/25/81	8/31/81	8/31/81	
3017031	PPP	044	0001	18	000	CWH	2/19/81			3/17/81	3/17/81	
3017031	PPP	044	0002	18	000	CWH	2/19/81	3/19/81	2/23/81	4/22/81	4/22/81	

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3017031	PPP	044	0505	0001	17	000	MAB	3/24/81			3/24/81	3/24/81	
3017031	PPP	044	0506	0001	08	000	GFP	3/13/81	3/27/81	3/25/81	4/02/81	4/02/81	
3017031	PPP	044	0513	0001	08	000	EFP	3/23/81	4/07/81	4/04/81	1/13/82	1/13/82	
								METHOD OF IDENT. ROD LENGTHS NO IDENT. IN PROCEDURE					
✓ 3017031	PPP	044	0513	0002	05	000	EFP	3/23/81	4/07/81	4/04/81	1/13/82	1/13/82	
								PROC. DOES NOT ADDRESS THAT CONCRETE UNDER PIPE SUPPORT BASE BE CLIPPED					
✓ 3017031	PPP	044	0513	0003	05	000	EFP	3/23/81	4/07/81	4/04/81	1/13/82	1/13/82	
								PROCEDURE DOES NOT ADDRESS FORMING OF VASE PLATES FOR GROUTING					
3017031	PPP	044	0518	0001	09	000	MAB	4/17/81	5/06/81	4/29/81	10/06/82	10/06/82	
								WELD MONITORING REPORT RECORDED OUTSIDE PARAMETER BY 35 AMPS					
3017031	PPP	044	0518	0002	09	000	MAB	4/17/81	5/06/81	4/29/81	5/04/81	5/04/81	
3017031	PPP	044	0518	0003	12	000	MAB	4/17/81	5/06/81	4/29/81	5/04/81	5/04/81	
3017031	PPP	044	0518	0004	09	000	MAB	4/17/81			4/17/81	4/17/81	
✓ 3017031	PPP	044	0518	0005	09	000	MAB	4/17/81	5/06/81	4/29/81	1/27/82	4/05/82	
								PROCEDURE DOES NOT ADDRESS IN-PROCESS REPAIRS					
✓ 3017031	PPP	044	0518	0006	10	000	MAB	4/17/81	5/06/81	4/29/81	10/06/82	10/06/82	
								PROCEDURE VI-5 DOES NOT REFERENCE PROCEDURE X-11					
✓ 3017031	PPP	044	0518	0007	10	000	MAB	4/17/81	5/06/81	4/29/81	10/06/82	10/06/82	
								PROCEDURE DOES NOT ADDRESS WHAT CONSTITUTES AND NR WHEN HOLD-POINTS ARE VIOLATED					
3017031	PPP	044	0518	0008	13	000	MAB	4/17/81			4/17/81	4/17/81	
3017031	PPP	044	0518	0009	08	000	MAB	4/17/81			4/17/81	4/17/81	
3017031	PPP	044	0528	0001	15	000	MAB	5/22/81	6/22/81	6/29/81	3/04/82	3/04/82	
								PULLMAN'S HOLD TAG LOG NOT BEING PROPERLY MAINTAINED					
3017031	PPP	044	0542	0001	09	000	GEG	6/22/81			6/22/81	6/22/81	
3017031	PPP	044	0543	0001	16	000	RH	6/19/81	7/03/81	6/23/81	6/23/81	2/03/82	
								COULD NOT PROVIDE DOCUMENTATION FOR VERIFYING NR PPP 463 AND 468					

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3017031	PPP	044	0543	0002	17	000	RH	6/19/81	7/03/81	6/23/81		6/23/81	6/23/81	
✓ 3017031	PPP	044	0556	0001	04	000	RH	8/14/81	9/01/81	8/31/81		10/19/81	10/19/81	
								P.O. 7690-531 DID NOT REFERENCE 10CFR21 AS REQUIRED.						
3017031	PPP	044	0556	0002	10	000	RH	8/14/81	9/01/81	8/31/81		10/19/81	10/19/81	
								NO SIGNATURE ON EYE EXAM FORM DATED 5-29-81. NAME PEELER IS PRINTED.						
3017031	PPP	044	0556	0003	09	000	RH	8/14/81	9/01/81	12/10/81		A 11/15/82	11/15/82	
								INCORRECT AMPERAGE DURING WELDING OPERATION BY WELDER DU.						
✓ 3017031	PPP	044	0556	0004	09	000	RH	8/14/81	9/01/81	12/10/81		A 11/15/82	11/15/82	
								WELDERS NOT FAMILIAR WITH PROCEDURE REQUIREMENTS FOR AMP SETTINGS.						
3017031	PPP	044	0556	0005	18	000	RH	8/14/81	9/01/81	8/31/81		10/19/81	10/19/81	
								NO BACK UP DOCU. TO SHOW HOW VERIFY OF COR. ACT. WAS DONE TO CLOSE OUT AR'S						
3017031	PPP	044	0556	0006	13	000	RH	8/14/81	1/04/82					
								NO OBJECTIVE EVIDENCE OF QUALIFICATION FOR OPERATORS OF CRANES.						
3017031	PPP	044	0556	0007	06	000	RH	8/14/81	9/01/81	8/31/81		12/10/81	12/10/81	
								INITIALS IN LIEU OF SIGNATURE USED ON SEVERAL DOCUMENTS.						
3017031	PPP	044	0556	0008	17	000	RH	8/14/81		8/31/81		9/11/81	9/11/81	
								NOTED SEVERAL CASES WHERE WHITE OUT WAS USED TO CHANGE DOCUMENTS.						
3017031	PPP	044	0589	0001	09	000	TLC	9/23/81	10/01/81	10/05/81		10/09/81	10/09/81	
								NO WELDERS SYMBOLS OR FW *S ON FOLL. HNGRS. 1G41H310 & H363 & 1E12H244						
✓ 3017031	PPP	044	0589	0002	02	000	LFY	9/23/81	10/01/81	10/05/81		10/12/81	10/14/81	
								NO INDOCTRINATION & TRAINING FOR CRAFT PERSONNEL FOR USE OF GROUT						
3017031	PPP	044	0589	0003	05	000	TLC	9/23/81	10/01/81	10/05/81		10/09/81	10/09/81	
								ECN 307 REFERENCED TO WRONG HANGER						
✓ 3017031	PPP	044	0589	0004	05	000	TLC	9/23/81	10/01/81	10/05/81		1/05/82	1/05/82	
								PPP DOESN'T ADDRESS IN THEIR PROCEDURE METHOD OF GROUTING HOLES						
3017031	PPP	044	0589	0005	09	000	LFY	9/23/81	10/01/81	10/05/81		10/12/81	10/20/81	
								PROCESS SHEET, WELD #1, HANGR. DRW. 1G41H310 CALL FOR IT-11. ROD ISSUED FOR IT-8A						
3017031	PPP	044	0589	0006	05	000	LFY	9/23/81	10/01/81	10/05/81		1/14/82	1/14/82	
								GAP BETWEEN LUGS & SMALL BORE LINE IS TOO LARGE ---HANGER DRAWING 1P47H1035						
✓ 3017031	PPP	044	0589	0007	08	000	TLC	9/23/81	10/01/81	10/05/81		10/09/81	10/09/81	
								1P47H1035--PIPE ATTACH. LUGS HAVE MARKINGS WHICH DON'T COMPLY WITH PROCEDURE						
3017031	PPP	044	0589	0008	07	000	LFY	9/23/81	10/01/81	10/05/81		1/14/82	1/14/82	
								GENERIC PROBLEM OF LISTING "ITEM" NUMBER, NOT "PC. MARK OR HEAT NUMBER"						

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✓ 301702	PPP	044	0589	0009	05	000 TLC	9/23/81	10/01/81	10/05/81		10/09/81	10/09/81	
DIREC. FOR DRILL. 12 HOLES. PROCEDURE GIVES PERMISSION FOR 2 HOLES													
3017031	PPP	044	0589	0010	05	000 LFY	9/23/81	10/01/81	10/05/81		10/13/81	10/13/81	
PPP INSP. GAVE TOLERANCE OF 1/16 DR 1/32ON DRILLING OF HOLES--INSTALL. OF H/BLT													
3017031	PPP	044	0589	0011	09	000 TLC	9/23/81					9/24/81	
FW #S 1,2,3,6 ON HNGR. DETAIL 1G41N192 2WELDED W/OUT WELD SYMBOLS ON DETAIL													
3017031	PPP	044	0590	CO02	08	000 CJF	10/02/81					10/05/81	
CONCERNS ON IDENTIFICATION & CONTROL OF MATERIALS, PARTS & COMPONENTS													
3017031	PPP	044	0590	0001	08	000 CJF	10/02/81	10/16/81	10/19/81		1/06/82	1/06/82	
SEVERAL VIOLATIONS IDENTIFIED DURING AUDIT #590													
3017031	PPP	044	0602	CO02	09	000 CJF	10/28/81				10/28/81	10/28/81	
FIVE VOILATIONS WERE NOTED DURING AUDIT ALL RELATED TO RODS IN SOME WAY													
3017031	PPP	044	0602	0001	09	000 CJF	10/28/81	11/13/81	11/30/81		12/04/81	12/04/81	
FOUR VOILATIONS WERE NOTED DURING AUDIT ALL FOUR WERE RELATED WITH ROD CANS													
3017031	PPP	044	0630	0001	05	000 MAB	12/04/81	1/18/82	12/28/81		2/08/82	2/08/82	
NR #360 WAS WRITTEN BECAUSE OF A MISSED HOLD POINT													
3017031	PPP	044	0630	0002	15	000 MAB	12/04/81	12/19/81	12/28/81		1/06/82	1/06/82	
NR #718 WAS WRITTEN TO DOCUMENT A SPOOL LOST DURING STORAGE													
3017031	PPP	044	0630	0003	15	000 MAB	12/04/81	1/18/82	12/28/81		2/08/82	2/08/82	
NR #391 WAS WRITTEN TO DOCUMENT THAT TWOVALVES WERE INSTALLED IN WRONG LOCATION													
3017031	PPP	044	0630	0004	10	000 MAB	12/04/81	1/18/82	12/28/81		2/08/82	2/08/82	
NR #619 WAS WRITTEN TO DOCUMENT A MISSEDHOLD POINT FOR FITUP AND TACK													
3017031	PPP	044	0630	0005	15	000 MAB	12/04/81	12/19/81	12/28/81		1/06/82	1/06/82	
VARIOUS DEFICIENCIES ON SANDBLAST OPERATION ON THE R45 YARD SYSTEM PIPING													
3017031	PPP	044	0630	0006	15	000 MAB	12/04/81	1/18/82	12/28/81		2/08/82	2/08/82	
PPP'S SYSTEM FOR NR CLOSE-OUT DOES NOT PROVIDE FOR POSITIVE VERIFICATION													
✓ 3017070	PPP	044	0655	0001	02	000 PGD	7/09/82	8/09/82	7/12/82		8/09/82	9/30/82	
PPP'S QA PROGRAM FAILS TO IDENTIFY PERSONNEL QUALIF. TO PERFORM INSPEC. & TESTS													
3017031	PPP	044	0655	0002	10	000 PGD	7/09/82	8/09/82	8/04/82		9/07/82	9/07/82	
HANGER FIELD WELD-1 TO EXISTING STEEL NOT FIT-UP INSPECTED													
3017031	PPP	044	0655	0003	14	000 PGD	7/09/82	8/09/82	8/04/82	A	8/06/82	10/21/82	
HANGERS NOT BEEN HYDRO/PNEUMATIC TESTED													
3017031	PPP	044	0666	0001	05	000 RWM	3/15/82	4/16/82	6/23/82		9/14/82	9/15/82	
CONTRACTORS FIELD PROCESS SHEETS DID NOTCONTAIN APPLICABLE QC SIGNATURES													

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3017031	PPP	044	0666	0002	07	000	BET	3/15/82	4/16/82	6/23/82	6/28/82	6/28/82	
NO EVIDENCE OF OWNER APPROVAL OF HE TYPEOF CURING COMPOUND BEING USED													
3017031	PPP	044	0666	0003	05	000	BET	3/15/82	4/16/82	6/23/82	6/28/82	6/28/82	
CONTRACTOR IS NOT INCREASING OR DECREASING THE AMOUNT OF WATER IN GROUT													
3017031	PPP	044	0666	0004	07	000	BET	3/15/82	4/16/82	6/23/82	6/28/82	9/28/82	
VARIOUS PROBLEMS OF HE CURING COMPOUND IN THE FIELD TO THE QUALITY RECORDS													
✓	3017031	PPP	044	0680	0001	10	000	PGD	3/26/82	4/23/82	4/22/82	4/22/82	10/08/82
PROCEDURE IX-6 DOES NOT ADDRESS VARIOUS PROBLEMS													
3017031	PPP	044	0682	0001	05	000	TLC	4/14/82	5/14/82	4/23/82	4/30/82	6/02/82	
PPP HAS BEEN USING RED VERIFICATION STICKER TO SHOW WELD MACHINE AMPS.													
✓	3017031	PPP	044	0682	0002	05	000	TLC	4/14/82	5/14/82	4/23/82	4/30/82	6/02/82
PROCEDURE DOES NOT ADDRESS WHERE AMP ANDVOLT OUTPUT WILL BE TAKEN													
✓	3017031	PPP	044	0682	0003	05	000	TLC	4/14/82	5/14/82	4/23/82	4/30/82	6/02/82
QA MANAGER IS REVIEWING WELD MONITORING REPORTS PROCEDURE STATES QA SUPER. DOES													
3017031	PPP	044	0682	0004	05	000	TLC	4/14/82	5/14/82	4/23/82	4/30/82	6/02/82	
NO EVIDENCE THAT QA MAN. REVIEWS WELD MONITORING REPORT WITH QA SUPERVISOR													
3017031	PPP	044	0682	0005	05	000	TLC	4/14/82	5/14/82	4/23/82	4/30/82	6/02/82	
WELD MONITORING REPORTS FOUND TO BE INCOMPLETE													
3017031	PPP	044	0686	C002	12	000	CEE	5/13/82				5/20/82	
TORQUE WRENCHES & PRESSURE GAUGES REMOVED FROM SERVICE WITHOUT DISPOSITION													
3017031	PPP	044	0686	C005	12	000	CEE	5/20/82				5/20/82	
CALIBRATION OF TORQUE WRENCHES & PRESSURE RELIEF VALVES, ETC.													
3017031	PPP	044	0686	0003	12	000	CEE	5/13/82	5/27/82	6/03/82	6/07/82	6/07/82	
CALIBRATION RECORDS FOR PRESSURE GAUGES SHOW MORE THAN ONE MANUFACTURER													
✓	3017031	PPP	044	0686	0004	12	000	CEE	5/13/82	5/27/82	6/03/82	6/07/82	6/07/82
NO PROGRAM FOR "LIMITED USE EQUIPMENT"													
3017031	PPP	044	0694	C001	06	000	PGD	5/05/82				5/05/82	
PPP'S DOC. CONTROL SYS. CONTAINED VENDOR DRAWINGS OF LATER REV. THAN SITE ORGANIZ.													
✓	3017031	PPP	044	0694	C002	06	000	PGD	5/05/82			5/05/82	
DRAWINGS STAMPED "UNCONTROLLED "WHICH ARE NOT ADDRESSED IN CONTR. QA PROGRAM													
3017031	PPP	044	0695	C001	13	000	PGD	5/25/82				6/02/82	
MAINT. FOR OWNER SUPPLIED ITEMS PERFORMED BY OWNER WHILE ITEMS WITH CONTRACTOR													
3017031	PPP	044	0695	C004	10	000	PGD	5/25/82				6/02/82	
NO EVIDENCE PROVIDED FOR QC MONITORING OF TRANSFER OF TRACEABILITY MARKINGS													

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✓ 3017031	PPP	044	0695	0002	10 000	PGD	5/25/82	7/28/82	9/01/82		9/07/82	9/07/82	
-CONTRACTOR'S AQ PROCEDURE (E.G., XII-5 AND XIII-9) INCOMPLETE													
3017031	PPP	044	0695	0003	05 000	PGD	5/25/82	6/08/82	6/09/82		6/11/82	9/08/82	
VALVES REQUISITIONED 11/13/80 USING THE "MATERIAL/COMPONENT REQUISITION"													
✓ 3017031	PPP	044	0695	0005	05 000	PGD	5/25/82	6/08/82	6/09/82		6/11/82	6/11/82	
-PPP PROCEDURE XIII-4, PARAGRAPH 6.1.2, IS UNCLEAR													
3017031	PPP	044	0701	0001	08 000	LJE	5/12/82	5/27/82	5/24/82		6/04/82	7/21/82	
DEFICIENCIES ON TRACEABILITY OF HEAT NUMBERS													
✓ 3017031	PPP	044	0703	C025	06 000	JMP	7/08/82					7/08/82	
-PROCEDURE VI-4 IS INCOMPLETE IN REGARDS TO RETENTION & STAMPING OF DRAWINGS													
3017031	PPP	044	0703	C026	03 000	JMP	7/08/82					7/08/82	
SEVEN TRANSMITTALS TOOK LONGER THAN THREE WORKING DAYS													
✓ 3017031	PPP	044	0703	0001	01 000	MAB	7/08/82	8/24/82	8/13/82		10/08/82	3/07/83	
-PROC. XII-1, CONTROL OF MEAS. & TEST EQUIP.; PROC. XV-2 HANDLING NONCONFORMANCES													
✓ 3017031	PPP	044	0703	0002	01 000	MAB	7/08/82	7/23/82	8/13/82		8/31/82	8/31/82	
-PARA. 1.3.15 OF PPP QA MANUAL IMPOSES ON SITE QA RESP. FOR IMPL. QA PROGRAM													
✓ 3017031	PPP	044	0703	0003	02 000	MAB	7/08/82	7/23/82	8/13/82		10/08/82		
-FAILURE OF PPP PERSONNEL TO UNDERSTAND PROCEDURES & CODES THEY WORK WITH													
✓ 3017031	PPP	044	0703	0004	08 000	MAB	7/08/82	7/23/82	8/13/82		8/31/82	8/31/82	
-VIOLATION OF PROCEDURE X-6, PARAGRAPH 4.2.2A ---- INSPECTION REPORT													
✓ 3017031	PPP	044	0703	0005	09 000	MAB	7/08/82	7/23/82	8/13/82		A 10/08/82	11/03/82	
-PROCEDURE VI-5 FAILS TO PROVIDE ADEQUATE DIRECTION & DETAIL TO FIELD WELD DOCUMENT													
✓ 3017031	PPP	044	0703	0006	09 000	MAB	7/08/82	7/23/82	8/13/82		A 10/08/82	11/03/82	
-PPP PROC. 2-B DOES NOT PROVIDE ADEQUATE DIRECTION FOR QUALIFICATION OF WELDERS													
✓ 3017031	PPP	044	0703	0007	09 000	MAB	7/08/82	10/22/82	10/28/82	10/28/82	A 11/03/82	11/03/82	
-PPP VIII-3; STORAGE OF MATERIAL TO PREVENT MIXING DIFF. CLASS. SIZES & HEAT/LOT													
3017031	PPP	044	0703	0008	09 000	MAB	7/08/82	7/23/82	8/13/82		A 10/06/82	11/03/82	
FAILURE TO CONTROL FILLER MATERIAL STUBS													
✓ 3017031	PPP	044	0703	0009	09 000	MAB	7/08/82	7/23/82	8/13/82		A 10/12/82	11/03/82	
-PPP FAILED TO DEVELOP & USE ADEQ. PROC. FOR CONTROL WELDING FILLER MATERIALS													
✓ 3017031	PPP	044	0703	0010	09 000	MAB	7/08/82	7/23/82	8/18/82		A 10/08/82	11/03/82	
-PROC. GWS-III, IX-3 AND IX-14 ---CONTROL OF FIELD WELDING ACTIVITIES													
3017031	PPP	044	0703	0011	09 000	MAB	7/08/82	7/23/82	8/13/82		A 10/12/82	11/03/82	
INFORMATION RECORDED ON FIELD MONITORING RECORDS CONTAINS MANY ERRORS													

CONSTRUCTION AUDIT AR'S

- ALL AAR'S BY RESPONSIBLE ORG.

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3017031	PPP	044	0703	0012	09	000 MAB	7/08/82	10/22/82	12/13/82	12/13/82	A 1/11/83	1/11/83	
PPP DOES NOT HAVE A SITE PROCEDURE TO COVER QUALIF. OF WELDING PQR'S													
3017031	PPP	044	0703	0013	09	000 MAB	7/08/82	7/23/82	8/13/82		A 10/06/82	11/03/82	
VIOLATION OF PROC. IX-46, PARA. 2.4 -- CERTIFICATION OF COUPLANT MATERIAL													
3017031	PPP	044	0703	0014	09	000 MAB	7/08/82	7/23/82	8/13/82		A 10/06/82	11/04/82	
PPP USING "JO BLOCKS" TO CALIBRATE DIGITAL THICKNESS GAGE													
3017031	PPP	044	0703	0015	09	000 MAB	7/08/82	7/23/82	8/13/82		A 10/06/82	12/23/82	
PROC. IX-46 DOES NOT REQUIRE PERSONNEL TO BE CERTIF. IN ACCORD. W/ SNT-TC-1A													
3017031	PPP	044	0703	0016	09	000 MAB	7/08/82	7/23/82	8/13/82		8/31/82	8/31/82	
ANNUAL REVIEW OF MANUALS AND PROCEDURES NOT BEING DONE													
3017031	PPP	044	0703	0017	06	000 MAB	7/08/82	7/23/82	8/13/82		A 8/31/82	12/23/82	
PIPE HANGER TRANSMITTAL FOR FIELD ENG. NOT BEING RETURNED IN THREE DAYS													
3017031	PPP	044	0703	0018	12	000 MAB	7/08/82	7/23/82	8/13/82		A 8/31/82	11/03/82	
POTENTIOMETER OUT OF CALIBRATION --PPP FAILED TO FOLLOW THRU ON WORK PERF. BY IT													
3017031	PPP	044	0703	0019	12	000 MAB	7/08/82	7/23/82	8/13/82		8/31/82	11/03/82	
TICKLER FILE USED TO ASSURE TIMELY CALIB. OF M&TE NOT KEPT UP-TO-DATE													
3017031	PPP	044	0703	0020	12	000 MAB	7/08/82	7/23/82	8/13/82		A 10/06/82	11/03/82	
I.D. MICROMETER NOT IDENTIFIED AS REQUIRED BY PPP PROC. XII-1													
3017031	PPP	044	0703	0021	12	000 MAB	7/08/82	7/23/82	8/13/82		A 8/31/82	11/03/82	
PROC. XII-1 FAILS TO PROVIDE CORRECT DIRECTION&DETAIL FOR CONT MEAS. & TEST EQUIP													
3017031	PPP	044	0703	0022	13	000 MAB	7/08/82	7/23/82	8/13/82		A 9/01/82	11/03/82	
VIOLATION OF PROC. XIII-5 --STORAGE AREAS NOT ACCESS CONTROLLED													
3017031	PPP	044	0703	0023	15	000 MAB	7/08/82	7/23/82	8/18/82		A 10/08/82	1/05/83	
PROC. XV-2 FAILS TO PROVIDE DIREC.&DETAIL FOR PPP CONTROLLING NONCONFORMANCES													
3017031	PPP	044	0703	0024	18	000 MAB	7/08/82	8/24/82	9/08/82	9/03/82	A 9/13/82	11/09/82	
PPP PROCEDURE XVIII-4, PARA. 5.4.1C, 5.4.1D, 5.5.1 AND 6.2													
3017031	PPP	044	0708	0001	13	000 WJC	6/01/82	9/09/82	8/30/82		9/03/82	3/02/83	
PPP'S QA PROGRAM, E.G. PROCEDURE XIII-5, AREAS NOT DESIGNATED FOR MATERIAL STORAG													
3017031	PPP	044	0708	0002	08	000 WJC	6/01/82	6/04/82	6/09/82		A 6/18/82	1/21/83	
BURLAP BAGS USED TO CONTAIN ITEMS ASSOC W/SAFETY RELATED HANGERS OR PIPE COMPON.													
3017031	PPP	044	0708	0003	13	000 WJC	6/01/82	6/30/82	7/12/82		7/15/82	7/15/82	
CODE PIPE FOUND IN OPEN BUILDING STORAGE AREA EXPOSED TO ENVIRONMENT													
3017031	PPP	044	0708	0004	13	000 WJC	6/01/82	7/16/82	7/23/82		8/30/82	3/02/83	
CODE PIPE SUPPORTS IN OPEN STORAGE AREA ---BALL BEARING SWIVEL ENDS RUSTED													

CONSTRUCTION AUDIT AR'S - ALL AAR'S BY RESPONSIBLE ORG.

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3017031	PPP	044	0721	0001	CEE	9/24/82	10/20/82			9/24/82	
UPGRADED TO CAR #0222											
3017031	PPP	044	0721	0002	CEE	9/24/82	10/08/82	9/28/82	A 10/12/82	1/04/83	
BLK. RUBBER GASKET INSTALL. AT VALVE F572, S/B RED RUBBER RING GASKET											
3017031	PPP	044	0782	0001	EAS	1/21/83	2/15/83	2/04/83	A 3/25/83		
GROUT USED FOR REPAIR, NOT BEING CURED IN ACCORDANCE W/APPROVED PROCEDURES OR SPEC											
3017031	PPP	044	0805	0001	WJC	2/22/83	3/03/83	3/08/83	2/25/83	A 3/18/83	3/18/83
MASTER THERMOMETER WAS NOT IDENTIFIED OR CONTROLLED AS BEING OUT OF SERVICE											

NO OF ITEMS

CONSTRUCTION AUDIT AR'S - ALL AAR'S BY RESPONSIBLE ORG.

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3017031	PPP	045	0686	0001	12	000	CEE	5/13/82	5/27/82	6/03/82	8/03/82	
TORQUE WRENCH S/N ODT-0029 NOT ON CALIBRATED TOOLS & EQUIPMENT LIST--IS IN USE												
3017031	PPP	045	0736	0001	07	.07	PGD	8/27/82	9/13/82	8/31/82	8/31/82	
CMTR'S NOT AVAILABLE FOR NON-PRESSURE RETAINING MATERIAL; BOLTING & P 54 SYSTEM												
3017031	PPP	045	0736	0002	11	000	PGD	8/27/82	9/13/82	8/31/82	9/07/82	
PPP PROCEDURE 11-1. PARA. 9.1 DOES NOT IMPLEMENT SPEC REQUIREMENT												

NO OF ITEMS

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CONSTRUCTION AUDIT AR'S

- ALL AAR'S BY RESPONSIBLE ORG.

FILE NUMBER	RESP ORG.	AUDIT NUMBER	AR NUMBER	APPEND B CRITERIA	CAUSE CODE	LEAD AUDITOR	ISSUE DATE	RESPONSE DUE DATE	RESPONSE DATE	COMPLETION DUE DATE	ACC/REJ DATE	VERIFY DATE	ITEM COUNT
3017031	PPP 044	0588	0001	15	000	CJF	9/22/81	9/29/81	10/05/81		10/12/81	10/12/81	
AFTER REPAIR ON HANGER HAD BEEN COMPLET-ED, HOLD TAG WAS NOT REMOVED.													
3017031	PPP 044	0588	0002	15	000	CJF	9/22/81	9/29/81	10/05/81		10/13/81	10/13/81	
HOLD TAGS WERE LISTED IN LOG AS BEING REMOVED BUT TAGS WERE STILL ON MATERIAL													
3017031	PPP 044	0753	0001	09		PGD	10/22/82	12/21/82					
THE REPAIR ORDER MAPS THE DEFECT AND MUST BE INITIATED PRIOR TO GRINDOUT													
3017031	PPP 044	0753	0002	09	.08	PGD	10/22/82	11/04/82	11/09/82	11/09/82	11/11/82	11/11/82	
BASE METAL REPAIR WAS COMPLETED & NO MT OR PT WAS PERFORMED													
3017031	PPP 044	0759	0001	06	.08	WJC	10/27/82	11/10/82	11/10/82	11/10/82	11/16/82	11/16/82	
PPP DID NOT DOCUMENT THE MOST RECENT THREE MONTH TEMP. VERIF. OF PORTABLE ROD CANS													
3017031	PPP 044	0759	0002	08	.08	WJC	10/27/82	11/10/82	11/10/82	11/10/82	11/23/82	11/23/82	
COATED ELECTRODE DETERMINED TO BE UNKNOWN QUALITY DUE TO LOSS OF ELECTRICTY													
3017031	PPP 044	0762	0001	09	.09	TES	11/09/82	11/16/82	11/17/82	12/03/82	12/13/82	3/18/83	
PRE-AUDIT AND POST-AUDIT CONFERENCES ARENOT BEING CONDUCTED AS REQUIRED													
3017031	PPP 044	0770	0001	13	.15	CJF	12/21/82	1/11/83	1/18/83	1/18/83	1/18/83	2/02/83	
A PROCESS AUDIT WAS PERFORMED BY CQS TO EVALUATE COMPLIANCE TO REFER. PROCEDURES													
3017031	PPP 044	0771	0001	09	.08	GG	12/13/82	12/30/82	12/22/82	12/09/82	1/06/83	3/16/83	
B. URBANY, EYE EXAMINATION PERIOD HAD EXPIRED.													
3017031	PPP 044	0771	0002	09	.08	GG	12/13/82	12/30/82	12/22/82	12/22/82	1/04/83	3/16/83	
"HIGH RADIATION AREA" WAS NOT POSTED DURING A RT EXPOSURE AT RB2													

NO OF ITEMS

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CONSTRUCTION INSPECTION AR'S - ALL AR'S BY RESPONSIBLE ORG.

FILE NUMBER	RESP ORG.	AUDIT NUMBER	AR NUMBER	APPEND B CRITERIA CODE	LEAD AUDITOR	ISSUE DATE	RESPONSE DUE DATE	COMPLETION DUE DATE	ACC/REJ DATE	VERIFY DATE	ITEM COUNT	
3011032	PP 44-47	0000	0031	05	000	TJA	2/20/78	2/28/78	3/01/78	4/12/78	4/12/78	
3011032	PP 44-47	0000	0034	09	000	REC	3/04/78	3/17/78	3/31/78	10/05/78	10/05/78	
3011032	PP 44-47	0000	0035	04	000	REC	3/06/78	3/20/78	3/31/78	10/05/78	10/05/78	
3011032	PP 44-47	0000	0043	18	000	REC	3/20/78	3/27/78	3/31/78	12/07/78	12/07/78	
3011032	PP 44-47	0000	0044	11	000	REC	3/20/78	3/27/78	3/31/78	10/05/78	10/05/78	
3011032	PP 44-47	0000	0045	01	000	REC	3/20/78	3/27/78	4/10/78	4/19/78	4/19/78	
3011032	PP 44-47	0000	0046	06	000	REC	3/20/78	3/27/78	3/31/78	10/05/78	10/05/78	
3011032	PP 44-47	0000	0047	15	000	REC	3/20/78	3/27/78	3/31/78	10/05/78	10/05/78	
3011032	PP 44-47	0000	0048	16	000	REC	3/20/78	3/27/78	3/31/78	4/13/78	4/13/78	
3011032	PP 44-47	0000	0056	02	000	REC	4/26/78	5/03/78	5/01/78	8/09/78	8/09/78	
3011032	PP 44-47	0000	0057	06	000	REC	4/26/78	5/03/78	5/01/78	6/28/78	6/28/78	
3011032	PP 44-47	0000	0058	17	000	REC	4/26/78	5/03/78	5/01/78	1/08/79	1/08/79	
3011032	PP 44-47	0000	0059	17	000	REC	4/26/78	5/03/78	5/01/78	8/23/78	8/23/78	
3011032	PP 44-47	0000	0061	12	000	REC	4/27/78	5/04/78	5/12/78	11/03/78	11/03/78	

NO OF ITEMS

CONSTRUCTION INSPECTION AR'S - ALL AAR'S BY RESPONSIBLE ORG.

FILE NUMBER	RESP ORG.	AUDIT NUMBER	AR NUMBER	APPEND B CRITERIA CODE	CAUSE CODE	LEAD AUDITOR	ISSUE DATE	RESPONSE DUE DATE	RESPONSE DATE	COMPLETION DUE DATE	ACC/REJ DATE	VERIFY DATE	ITEM COUNT
3011051	PPP	000	0000	0058	12	000	LFY 8/23/78	8/31/78	8/27/78	8/29/78	8/29/78	8/29/78	

NO OF ITEMS

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CONSTRUCTION INSPECTION AR'S - ALL AAR'S BY RESPONSIBLE DRG.

FILE NUMBER	RESP ORG.	AUDIT NUMBER	AR NUMBER	CAUSE	LEAD AUDITOR	ISSUE DATE	RESPONSE DUE DATE	COMPLETION DUE DATE	ACC/REFJ DATE	VERIFY DATE	ITEM COUNT
3011032	PPP	044	0000	C366	13 000 LFY	12/08/81				12/10/81	
DURING INSTAL. OF VALVES 2 LADDERS WERE REMOVED AND ANCHOR BOLTS BENT 90 DEGREEE											
3011032	PPP	044	0000	C407	09 000 GEG	2/22/82			3/18/82	3/18/82	
A HIGH RADIATION AREA SIGN WAS HANGING ON AN ELECTRICAL SWITCH OUTSIDE PPP WHSE											
3011032	PPP	044	0000	C488	10 000 WJC	6/18/82				6/18/82	
PIPE RUNS DON'T MEET SLOPE REQUIRE. AS DELINEATED ON ENGINEER'S DRAWING											
3011032	PPP	044	0000	0079	13 000 REC	7/27/78	8/01/78	7/31/78	8/22/78	8/22/78	
3011032	PPP	044	0000	0192	09 000 REC	11/28/79			11/28/79	11/28/79	
3011032	PPP	044	0000	0242	11 000 REC	7/02/80	7/16/80	8/05/80	7/15/81	7/15/81	
3011032	PPP	044	0000	0267	09 000 RBM	9/09/80	9/17/80	9/16/80	11/28/80	11/28/80	
3011032	PPP	044	0000	0275	10 000 WFW	10/01/80	10/27/80	10/15/80	10/22/80	10/22/80	
3011032	PPP	044	0000	0277	09 000 GFP	11/07/80	11/21/80	11/26/80	11/28/80	11/28/80	
3011032	PPP	044	0000	0294	10 000 MAB	3/25/81	4/07/81	4/04/81	4/07/81	4/07/81	
3011032	PPP	044	0000	0295	10 000 MAB	3/26/81	4/07/81	4/04/81	10/04/82	10/04/82	
PPP ONLY HAS 11 CERT. WELDING INSPECTORSVS. 175 WELDERS											
3011032	PPP	044	0000	0299	05 000 MAB	5/07/81	5/21/81	5/21/81	8/31/81	8/31/81	
3011032	PPP	044	0000	0302	09 000 EFP	5/21/81	6/12/81	5/28/81	7/07/81	7/07/81	
3011032	PPP	044	0000	0310	09 000 LFY	8/18/81	9/08/81	8/25/81	8/31/81	8/09/82	
IDENTIFY VOLTAGE RANGES ABOVE THAT SPECIFIED ON THE REVISION											
3011032	PPP	044	0000	0313	10 000 RWM	9/25/81	10/21/81	10/01/81	1/12/82	1/12/82	
TEMP. OF BASE PLATE & CONCRETE FOUND. NOT TAKEN BY PPP QC INSPECTOR											
3011032	PPP	044	0000	0326	10 000 AA	10/09/81	10/23/81	10/29/81	10/29/81	10/29/81	
PPP'S QC INSP. DID NOT USE FILLET WELD GAUGE DURING INSP. OF SOCKET WELD											
3011032	PPP	044	0000	0330	09 000 EFP	10/16/81	10/30/81	10/28/81	1/13/82	1/13/82	
PPP HAS INSTALLED A SAFETY-RELATED SMUBBER AND DOES NOT HAVE PROCEDURE REV. YET											

CONSTRUCTION INSPECTION AR'S - ALL AR'S BY RESPONSIBLE ORG.

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3011032	PPP	044	0000	0340	000 LFY	11/04/81	11/11/81	11/09/81	11/11/81	11/11/81	
HOLD POINT SIGNED OFF BY PPP PRIOR TO MILTI BOLTS BEING SET AND TORQUED											
3011032	PPP	044	0000	0343	000 CJF	11/06/81	11/12/81	11/12/81	11/12/81	11/12/81	
NCR PPP A414 CONTACTOR DEVIATED FOR DISPOSITION WITHOUT PROJECT APPROVAL											
3011032	PPP	044	0000	0347	000 AA	11/18/81	12/03/81	12/09/81	12/09/81	12/09/81	
FOR TWO DAYS IN A ROW IT WAS FOUND THAT PORTABLE ROD OVENS WERE NOT PLUGGED IN											
3011032	PPP	044	0000	0365	000 EFP	12/03/81	1/01/82	1/13/82	1/14/82	1/14/82	
WORK WAS PERFORMED TO A FIELD QUESTION BEFORE AND ECN WAS ISSUED											
3011032	PPP	044	0000	0374	000 LFY	12/21/81	1/04/82	1/11/82	2/16/82	2/16/82	
PPP FAILED TO GET AUTHOR. FORM FO PRIOR TO INSTAL. 3 VALVES OPPOSITE GAI DWG.											
3011032	PPP	044	6000	0376	000 LFY	12/23/81	1/08/82	1/11/82	1/12/82	1/12/82	
VARIOUS ITEMS OF NONCOMPLIANCE WERE IDENTIFIED TO PPP QUALITY ASS. PERSONNEL											
3011032	PPP	044	0000	0377	000 TLC	12/28/81	1/11/82	1/14/82	1/14/82	1/22/82	
CARBON STEEL PIPE MIXED WITH S/S PIPE PIPE LYING ON CONCRETE FLOOR											
3011032	PPP	044	0000	0378	000 LFY	12/29/81	1/08/82	1/11/82	1/12/82	2/16/82	
SEVERAL ITEMS OF NONCOMPLIANCE WERE NOTED ON 12/23/81											
3011032	PPP	044	0000	0379	000 CJF	1/05/82	1/08/82	1/18/82	1/25/82	1/25/82	
BARE WIRE AND COATED ELECTRODE STUBS WERE FOUNK LYING AROUND ON GROUND											
3011032	PPP	044	0000	0384	000 CEE	1/21/82	1/31/82	1/26/82	3/16/82	3/16/82	
MARKINGS HAVE NOT BEEN TRANSFERRED PRIORTO MATERIAL BEING CUT IN FAB SHOP											
3011032	PPP	044	0000	0385	000 TLC	1/22/82	2/08/82	1/28/82	1/29/82	1/29/82	
WHILE TESTING THE R45 SYSTEM SEVERAL WELDS WERE NOT VISIBLE FOR TESTING											
3011032	PPP	044	0000	0389	000 GFP	1/28/82	4/07/82	5/10/82	6/21/82	6/21/82	
DURING TREND ANALYSIS OF NR'S SHOWED PROBLEMS EXIST IN LOST OF MISSING ITEMS											
3011032	PPP	044	0000	0393	000 CEE	2/10/82	2/20/82	2/22/82	2/26/82	9/23/82	
NO DOCUMENTATION ON ZERO COLD PULL ON PIPING PRIOR TO MAKING CONNECTIONS ON NOZL											
3011032	PPP	044	0000	0395	000 TLC	2/08/82	2/12/82	2/12/82	2/12/82	2/23/82	
NO QC INSPECTOR OR SUPERVISOR IN EITHER ROD ROOMS IN THE AUIILIARY BUILDING											
3011032	PPP	044	0000	0398	000 CEE	2/15/82	2/25/82	2/19/82	2/24/82	2/24/82	
ROD ROOM ATTENDANT WAS HEATING HIS LUNCHIN ROD OVEN #17 WHICH CONTAINED RODS											
3011032	PPP	044	0000	0401	000 CEE	2/16/82	2/26/82	3/15/82	3/16/82	8/04/82	
VARIOUS MATERIALS WERE LEFT INSIDE SPOOLS COE REMOVED THESE AFTER UNBOLTING FLNG											
3011032	PPP	044	0000	0404	000 CEE	2/18/82	2/23/82	2/23/82	2/23/82	2/23/82	
VARIOUS PROBLEMS PERTAINING TO WELDING IN PPP'S PIPE F. SHOP											

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3011032	PPP	044	0000	0405	JMC	2/19/82	3/05/82	3/01/82	3/10/82	3/10/82	
APPEND B CAUSE CODE PPP DID NOT WRITE AND NONCONFORMANCE TO COVER A NONCONFORMING CONDITION											
3011032	PPP	044	0000	0408	TLC	2/22/82	3/01/82	2/26/82	3/08/82	3/08/82	
ON 1G36-511.W #9 HAS WELD METAL ADDED AFTER FINAL VISUAL WAS REJECTED BY CQE											
3011032	PPP	044	0000	0410	RAF	2/23/82	3/08/82	3/01/82	4/01/82	6/24/82	
PPP VALVE INSTAL. PROCEDURE DO NOT PROVIDE TRACEABILITY BY MPL NUMBER											
3011032	PPP	044	0000	0411	AA	2/22/82	3/15/82	3/10/82	3/12/82	3/12/82	
COE OBSERVED CRAFT FABRICATING PIPE SPOOLS TO AN OUT DATED DRAWING REVISION											
3011032	PPP	044	0000	0412	AA	2/22/82	3/15/82	3/05/82	3/09/82	3/09/82	
PPP INSPECTORS WERE NOT REVIEWING PAPER WORK, DWG. REVISION NUMBERS ETC.											
3011032	PPP	044	0000	0418	TLC	2/25/82	3/05/82	3/04/82	3/10/82	3/22/82	
QC DID NOT CONTROL OPERATION OF COLD BEND TO ENSURE LIMIT OF 1200 DEG. VIOLATED											
3011032	PPP	044	0000	0419	BET	2/25/82	3/12/82	3/08/82	3/10/82	4/02/82	
QC INSPECTOR WAS WORKING TO THE WRONG REVISION OF THE PROCESS SHEET FOR HANGERS											
3011032	PPP	044	0000	0420	AA	2/26/82	3/15/82	3/11/82	3/13/82	3/13/82	
WHILE SANDBLASTING THE FACE OF THE FLANGE THEY RUINED ALL THE GROOVES											
3011032	PPP	044	0000	0428	CEE	3/11/82	3/22/82	3/23/82	3/25/82	7/16/82	
WELDING WITHOUT THE REQUIRED PROCESS SHEET BEING USED FOR THE ACTIVITIES											
3011032	PPP	044	0000	0433	LJE	3/11/82	3/25/82	3/25/82	3/31/82	3/31/82	
INTERNAL FITUP ON MISMATCHED WELDS SIGNED OFF BY PPP INSPECTOR AND ANI											
3011032	PPP	044	0000	0442	MRK	3/22/82	3/29/82	4/14/82	4/15/82	5/12/82	
55 GAL. OF DRUM OF CURING COMPOUND CAN'T BE TRACED TO CERTIF OF CONFORMANCE											
3011032	PPP	044	0000	0446	TLC	3/29/82	4/07/82	4/02/82	4/15/82	4/15/82	
LINES DO NOT HAVE FIELD WELD NUMBERS STENCILED ON PIPE FOR IDENTIFICATION											
3011032	PPP	044	0000	0448	PC	3/29/82	4/12/82	4/14/82	4/28/82	5/06/82	
NONCONFORMING CONDITIONS WERE NOTED IN WELDS											
3011032	PPP	044	0000	0450	TLC	3/30/82	4/08/82	4/07/82	4/12/82	4/13/82	
INSPECTION OF TUBE STEEL FOUND USED AND UNUSED ROD											
3011032	PPP	044	0000	0459	PC	4/20/82	4/27/82	6/22/82	6/24/82	7/20/82	
PROCESS SHEETS ARE BEING RETURNED TO CRAFT INSTEAD OF QC INSPECTOR											
3011032	PPP	044	0000	0477	TLC	5/17/82	5/24/82	5/18/82	5/19/82	5/24/82	
NO TORQUE SHEET TO VERIFY WHAT TORQUE REQUIREMENTS WERE TO BE MET											
3011032	PPP	044	0000	0478	MJC	5/18/82	6/21/82	6/09/82	7/19/82	7/19/82	
CARBON STEEL RIGGING MATERIAL USED ON STAINLESS STEEL FLANGE FACE											

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3011032	PPP	044	0000	0479	16	000 PC	5/18/82	7/23/82	7/27/82			8/02/82	8/02/82	
REJECT RATE OF 43% DISCREPANCIES INVOLVING VISUAL HANGER INSPECTION														
3011032	PPP	044	0000	0482	09	000 CEE	6/03/82	6/17/82	6/21/82			7/01/82	7/01/82	
WELD RECORDS INDICATE WELDER CONSUMING MATERIAL HE NEVER WORKED ON														
3011032	PPP	044	0000	0484	06	000 WJC	6/09/82	6/23/82	6/30/82			7/09/82	7/09/82	
WELD ROD REQ. FORMS INDICATE MATERIAL NOT RET'D TO DIST. CENTER FOR 17 MONTHS														
3011032	PPP	044	0000	0490	10	000 PC	6/22/82	6/29/82	6/29/82			7/02/82	7/02/82	
INSPECTION PROCEDURES NOT BEING FOLLOWED														
3011032	PPP	044	0000	0491	05	000 TLC	6/25/82	6/25/82	6/25/82			6/25/82	9/23/82	
NEGATIVE TREND DEVELOPING IN AREA OF PULLMAN POWER PRODUCTS ROD CONTROL														
3011032	PPP	044	0000	0493	05	000 WJC	7/08/82	8/13/82	9/02/82			9/30/82	9/30/82	
ISO DOESN'T CONTAIN FIT-UP CRITERIA FOR FIELD WELD														
3011032	PPP	044	0000	0496	05	000 RAS	7/19/82	7/20/82	7/28/82			7/30/82	9/23/82	
PPP IS STORING THEIR BARE WIRE IN LEATHER POUCHES: VIOLATION PROC. PPP VIII-3														
3011032	PPP	044	0000	0499	08	000 RAF	7/23/82	8/27/82	8/26/82			9/09/82	9/09/82	
MATERIALS ARE NOT ACCOUNTED FOR PROPERLY														
3011032	PPP	044	0000	0500	05	000 JBH	7/27/82	8/10/82	8/19/82			9/01/82	9/07/82	
DELETED SHOP WELD CDEF & SPOOL PCS. (I3039-5) NOT DELETED ON F-SHEET LOG														
3011032	PPP	044	0000	0503	06	000 WJC	8/02/82	8/09/82	8/06/82			8/09/82	8/09/82	
NOT COMPLYING WITH PPP PROCEDURE IV-5, PARA. 6.3														
J 3011032	PPP	044	0000	0505	09	000 WJC	8/09/82	8/16/82	8/16/82			8/16/82	9/23/82	
PPP QC INSPECTORS NOT RECORDING PROPER WELDING INFO. ON PORCESS SHEETS														
3011032	PPP	044	0000	0506	05	.02 TLC	8/11/82	8/31/82	8/23/82	8/23/82	A 10/26/82	10/26/82	10/26/82	
HANGER 1C11H317, ACCEPTED BY PPP INSPECTOR WITH GAP BETWN PIPE AND PIPE STRAP														
3011032	PPP	044	0000	0507	09	.08 WJC	8/12/82	8/20/82	8/20/82	8/20/82	A 11/09/82	11/09/82	11/09/82	
PPP WDE PERSONNEL NOT COMPLYING WITH PPPPROCEDURE IX-PT-1-W75, PARAGRAPH 13.1														
3011032	PPP	044	0000	0510	06	.08 CEE	8/16/82	9/24/82	3/07/83	3/07/83	A 3/16/83	3/16/83	3/16/83	
MEMO USED TO DIRECT WORK--INSTRUCTIONS CONFLICT WITH PROCEDURE IX-5 SECT. 4.2 P 1														
3011032	PPP	044	0000	0520	09	000 WJC	9/15/82	9/27/82	9/20/82			10/15/82	10/15/82	
DEMNERALIZED WATER CONTAINS ORGANIC MATTER AND METAL PARTICLES														
3011032	PPP	044	0000	0527	09	.15 DES	10/06/82	11/05/82	11/11/82	11/11/82	A 11/19/82	11/19/82	11/19/82	
TEMP. COLD PULLING OPERATION HAS BEEN PERFORMED WITHOUT UTILIZING PROCESS SHEETS														
3011032	PPP	044	0000	0529	09	.09 RBM	10/13/82	11/12/82	12/02/82			A 12/09/82	12/09/82	
PRO. IX-PT-1-W75 DOES NOT ADEQUATELY ADD A MAX. DRYING TIME AFTER PENET. REMOVAL														

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3011032	PPP	044	0000	0530	09	11 RBM	10/13/82	11/12/82	10/21/82	10/19/82	A	10/28/82	10/28/82
													REVIEW OF NDE PERSONNEL REVEALED THAT IN SOME CASES INDIVIDUALS WERE NOT TESTED
3011032	PPP	044	0000	0545	05	09 RBM	11/23/82	12/03/82	12/06/82		A	12/09/82	12/09/82
													PPP IS VIOLATING THE REQUIREMENTS OF ECN9092-44-1085 REV. B PARAGRAPH 1.13
3011032	PPP	044	0000	0546	08	02 DES	11/26/82	12/10/82	12/09/82		A	12/16/82	
													VALVE DISASSEMBLY HAS BEEN PERFORMED W/OUT QC VERIFICATION
3011032	PPP	044	0000	0551	15	08 PC	12/17/82	2/10/83	2/14/83	12/29/82	A	2/21/83	2/21/83
													HANGERS SHOULD NOT HAVE BEEN REMOVED W/OUT A RELEASE FROM CQS
3011032	PPP	044	0000	0557	10	08 WJC	12/15/82	1/07/83	1/26/83	1/10/83	A	1/31/83	1/31/83
													PPP HAS CONDUCTED COLD BENDING OPERATIONS ON SPOOL PC. W/OUT QC VERIFICATION
3011032	PPP	044	0000	0558	14	18 JWB	12/16/82	1/16/83	12/22/82	12/22/82	A	1/05/83	
													WRONG WELD BEING REPAIRED AND X-RAYED
3011032	PPP	044	0000	0561	13	09 MAG	12/22/82	1/17/83	1/31/83	1/31/83	A	2/04/83	2/04/83
													A 8" MOTOR OPERATED VALVE WAS LEFT HANGING BY A TIE WIRE INSTEAD OF CERT. EQUIP.
3011032	PPP	044	0000	0565	10	05 DES	1/24/83	2/14/83	2/04/83	3/04/83			
													PPP IS CONDUCTING TEMP. ATTACH. REMOVAL OPERATIONS W/IN RB 1&2
3011032	PPP	044	0000	0566	13	08 LJE	1/20/83	1/31/83	1/31/83	1/31/83	A	1/04/83	1/04/83
													UNACCEPTABLE CLEANLINESS CONDITIONS ARE APPARENT
3011032	PPP	044	0000	0575	06	11 CJF	2/09/83	3/15/83	3/21/83	3/21/83	A	3/23/83	3/23/83
													AN ULTRASONIC FLAW DETECTION RECORD FOR FINAL EXAM. WAS NOT INCLUDED IN TURNOVER
3011032	PPP	044	0000	0577	05	05 PC	2/10/83	2/17/83	3/16/83	3/16/83			
													HANGER WAS INSTALLED W/BASEPLATE ROTATED 90 DEG.
3011032	PPP	044	0000	0578	10	05 PC	2/10/83	3/23/83	3/24/83	3/24/83			
													A PPP QC INSP. ACCEPTED HANGER THAT HAS AMELDED ATTACH. W/IN 4" OF THE END OF EMB.
3011032	PPP	044	0000	0579	10	05 PC	2/10/83	3/23/83	3/24/83	3/24/83			
													HANGER WAS INSTALLED W/INADEQUATE PIPE TO HANGER CLEARANCE
3011032	PPP	044	0000	0583	05	15 CJF	2/17/83	3/17/83	3/15/83	3/15/83	A	3/22/83	3/22/83
													CONTRACTOR FAILED TO PERFORM A MAGNETIC PARTICLE INSPECTION ON WELD PREP. PER NR.
3011032	PPP	044	0000	0584	05	05 DES	2/22/83	3/01/83					
													PPP HAS DISASSEMBLED VALVES W/OUT KNOWING MANUFACTURER'S REQUIREMENTS
3011032	PPP	044	0000	0589	15	05 CJF	3/02/83	3/18/83	3/24/83	3/24/83			
													HILTI BOLT WAS NOT MARKED W/ANY ID CODE AS REQUIRED. POOR VERIFICATION WAS MADE.
3011032	PPP	044	0000	0590	14	05 JWB	3/02/83	4/02/83					
													REVIEW OF PPP RADIOGRAPHIC FILM SHOWS EVIDENCE OF WRONG WELD REPAIRED & X-RAYED

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3011032	PPP	044	0000	0602	JWB	3/28/83				3/28/83	
UPGRADED TO CAR783-05											
3011051	PPP	044	0000	0003	JAM	6/03/78	6/12/78	6/09/78	7/11/78	7/11/78	
3011051	PPP	044	0000	0004	JAM	6/03/78	7/24/78	6/09/78	7/28/78	7/28/78	
3011051	PPP	044	0000	0062	LFY	9/06/78			9/06/78	9/06/78	
3011051	PPP	044	0000	0064	SP	9/08/78	9/20/78	9/14/78	9/18/78	9/18/78	
3011051	PPP	044	0000	0076	LFY	10/04/78			10/04/78	10/04/78	
3011051	PPP	044	0000	0109	GF	11/03/78	11/10/78	11/15/78	11/16/78	11/16/78	
3011051	PPP	044	0000	0155	CJF	5/30/79	6/06/79	6/13/79	6/15/79	6/15/79	
3011051	PPP	044	0000	0164	SHH	7/06/79	7/12/79		7/10/79	7/10/79	
VOIDED											
3011051	PPP	044	0000	0167	CJF	7/13/79	7/27/79	8/30/79	8/30/79	8/30/79	
3011051	PPP	044	0000	0233	LEL	1/24/80	2/04/80	2/04/80	2/06/80	2/06/80	
3011051	PPP	044	0000	0234	LCL	1/29/80	2/06/80	2/05/80	2/07/80	2/07/80	
3011051	PPP	044	0000	0253	WPF	4/09/80	4/23/80	4/15/80	6/17/80	6/17/80	
3011051	PPP	044	0000	0259	WPF	3/31/80	4/07/80	4/01/80	4/09/80	4/09/80	
3011051	PPP	044	0000	0264	WPF	4/28/80	5/06/80	5/02/80	5/20/80	5/20/80	
3011051	PPP	044	0000	0266	ERP	5/12/80	5/27/80		5/20/80	5/20/80	
3011051	PPP	044	0000	0271	ERP	5/20/80	6/03/80	6/05/80	6/17/80	6/17/80	

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3011051	PPP	044	0000	0275	09	000	RLH	6/10/80	7/10/80	6/26/80	3/25/81	3/25/81
3011051	PPP	044	0000	0284	13	000	LCL	7/10/80	7/20/80	7/18/80	7/30/80	7/30/80
3011051	PPP	044	0000	0289	13	000	LCL	8/12/80	8/19/80	8/21/80	9/09/80	9/09/80
3011051	PPP	044	0000	0293	15	000	ERP	8/14/80	9/03/80	8/22/80	8/27/80	8/27/80
3011051	PPP	044	0000	0297	13	000	ERP	8/21/80	9/05/80	8/29/80	9/10/80	9/10/80
3011051	PPP	044	0000	0302	13	000	LFY	9/10/80			9/10/80	9/10/80
3011051	PPP	044	0000	0303	05	000	ERP	9/09/80	9/23/80	9/23/80	9/24/80	9/24/80
3011051	PPP	044	0000	0304	00	000	ERP	9/09/80	9/23/80	9/23/80	9/24/80	9/24/80
3011051	PPP	044	0000	0310	09	000	ERP	9/25/80			9/29/80	9/29/80
3011051	PPP	044	0000	0316	13	000	CJF	10/15/80	10/29/80	10/29/80	10/31/80	10/31/80
3011051	PPP	044	0000	0321	09	000	ERP	10/28/80	11/11/80	10/31/80	11/04/80	11/04/80
3011051	PPP	044	0000	0329	13	000	ERP	11/25/80		11/25/80	12/16/80	12/16/80
3011051	PPP	044	0000	0330	11	000	ERP	11/25/80	12/09/80	12/01/80	12/02/80	12/02/80
3011051	PPP	044	0000	0334	05	000	TLC	12/19/80	1/02/81	1/05/81	1/06/81	1/06/81
3011051	PPP	044	0000	0343	05	000	TC	1/08/81	1/22/81	1/20/81	1/21/81	1/21/81
3011051	PPP	044	0000	0349	10	000	LFY	1/20/81	2/06/81	2/02/81	2/11/81	2/11/81
3011051	PPP	044	0000	0353	05	000	TLC	2/02/81	2/17/81	2/16/81	2/17/81	2/17/81

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3011051	PPP	044	0000	05	000	TLC	2/02/81	2/16/81	2/17/81	2/17/81	2/17/81
3011051	PPP	044	0000	10	000	TLC	2/03/81	2/17/81	2/20/81	2/24/81	2/24/81
3011051	PPP	044	0000	10	000	TLC	2/19/81	3/05/81	2/24/81	2/25/81	2/25/81
3011051	PPP	044	0000	10	000	TLC	2/27/81	3/13/81	3/05/81	3/24/81	3/24/81
3011051	PPP	044	0000	05	000	TLC	3/09/81	3/10/81	3/10/81	3/10/81	3/10/81
3011051	PPP	044	0000	10	000	CEE	3/11/81	9/13/82	10/08/82	10/08/82	10/08/82
PROCESS SHEET FOR FIT-UP DO NOT MEET REQUIREMENTS											
3011051	PPP	044	0000	05	000	EAS	3/20/81		3/20/81	3/20/81	3/20/81
3011051	PPP	044	0000	05	000	CEE	3/02/81	3/17/81	3/18/81	4/01/81	4/01/81
3011051	PPP	044	0000	05	000	TLC	3/06/81	3/20/81	3/18/81	3/23/81	3/23/81
3011051	PPP	044	0000	13	000	CEE	3/09/81	3/20/81	3/20/81	5/27/81	5/27/81
3011051	PPP	044	0000	10	000	CEE	3/24/81	4/07/81	3/31/81	6/02/81	6/02/81
3011051	PPP	044	0000	05	000	TLC	3/24/81	4/03/81	3/31/81	4/20/81	4/20/81
3011051	PPP	044	0000	05	000	CEE	3/25/81	4/08/81	3/31/81	5/20/81	5/20/81
3011051	PPP	044	0000	10	000	TLC	3/27/81	4/10/81	4/09/81	4/13/81	4/13/81
3011051	PPP	044	0000	10	000	TLC	3/31/81	4/13/81	4/09/81	4/13/81	4/13/81
3011051	PPP	044	0000	13	000	TLC	4/01/81	4/14/81	4/09/81	4/13/81	4/13/81
3011051	PPP	044	0000	05	000	CEE	5/01/81	5/14/81	5/05/81	5/20/81	5/20/81

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3011051	PPP	044	0000	0384	05	000	TLC	5/18/81	5/29/81	6/17/81	6/29/81	4/08/82
2 LINES OUT OF LOCATION - 1G36-12 FW# 3, 4 1G36-13 RB G01H TO FW# 4												
3011051	PPP	044	0000	0386	13	000	TLC	5/20/81	6/03/81	6/08/81	6/11/81	6/11/81
3011051	PPP	044	0000	0387	09	000	JPH	5/21/81	6/04/81	6/08/81	7/02/81	2/02/82
PT PROCEDURE DOES NOT COMPLY TO CODE REQUIREMENTS												
3011051	PPP	044	0000	0389	10	000	TLC	5/22/81	6/08/81	6/09/81	6/11/81	6/11/81
3011051	PPP	044	0000	0390	05	000	TLC	5/22/81	6/08/81	6/09/81	6/10/81	6/10/81
3011051	PPP	044	0000	0391	05	000	NGG	5/30/81	6/12/81	6/18/81	6/22/81	6/22/81
3011051	PPP	044	0000	0392	10	000	TLC	6/02/81	6/16/81	6/17/81	6/18/81	6/18/81
3011051	PPP	044	0000	0393	05	000	TLC	6/02/81	6/16/81	6/18/81	6/18/81	6/18/81
3011051	PPP	044	0000	0401	13	000	TLC	6/12/81	6/25/81	6/17/81	6/18/81	6/18/81
3011051	PPP	044	0000	0405	09	000	CEE	6/22/81	7/07/81	7/07/81	7/08/81	7/08/81
3011051	PPP	044	0000	0409	09	000	CEE	7/07/81	7/20/81	7/13/81	8/25/81	8/25/81
3011051	PPP	044	0000	0410	05	000	TLC	7/08/81	7/17/81	7/13/81	7/20/81	7/20/81
3011051	PPP	044	0000	0411	06	000	TLC	7/09/81	7/17/81	7/21/81	7/21/81	7/21/81
3011051	PPP	044	0000	0412	15	000	TLC	7/08/81	7/17/81	7/13/81	7/14/81	7/14/81
3011051	PPP	044	0000	0413	17	000	TLC	7/08/81	7/17/81	7/13/81	7/14/81	7/14/81
3011051	PPP	044	0000	0415	09	000	CEE	7/08/81	9/24/81	4/04/82	4/06/82	4/06/82
PPP WELD INSPECTORS GIVEN RESP. OF SETTING THIER AMPERAGE AND VOLTAGE												
3011051	PPP	044	0000	0416	13	000	RAF	7/13/81	7/24/81	8/06/81	8/28/81	9/23/81
SPOOL HAD BEEN DELIVERED TO FIELD WITH APPROXIMATELY TWO POUNDS OF SAND INSIDE												

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3011051	PPP	044	0000	C417	08	000	CEE	7/13/81	7/20/81	7/23/81	8/03/81	2/24/82
								IDENTIFICATION MARKS ON R-45 HAVE BEEN LOST				
3011051	PPP	044	0000	C418	10	000	EAS	7/10/81	7/16/81	7/20/81	8/05/81	8/24/81
3011051	PPP	044	0000	C420	05	000	TLC	7/14/81	7/24/81	7/23/81	7/24/81	8/24/81
3011051	PPP	044	0000	C421	05	000	CEE	7/15/81	9/14/81	7/21/81	1/26/82	1/26/82
								MIN. WALL THICKNESS ON PIPE SPOOL MAY HAVE BEEN VIOLATED				
3011051	PPP	044	0000	C422	11	000	CEE	7/22/81	9/14/81	9/10/81	1/25/82	1/25/82
								HYDROTEST CONDUCTED UNDER UNFAVORABLE CONDITIONS				
3011051	PPP	044	0000	C423	10	000	TLC	7/22/81	7/31/81	8/06/81	8/26/81	8/26/81
3011051	PPP	044	0000	C434	05	000	CEE	8/27/81	10/08/81	9/21/81	1/29/82	1/29/82
								PIECE OF PIPE ADDED TO S/S CONTAINMENT POOL EMBEDDED PIPING W/O PROPER AUTHOR.				
3011051	PPP	044	0000	C436	10	000	CEE	9/01/81	9/16/81	9/16/81	11/05/81	11/05/81
								PPP INSP. SIGNED OFF FIT-UP EVEN THOUGH ROOT GAP WAS LESS THAN ALLOWABLE MINIMUM				

NO OF ITEMS

161

CONSTRUCTION INSPECTION AR'S - ALL AAR'S BY RESPONSIBLE ORG.

FILE NUMBER	RESP ORG.	AUDIT NUMBER	AR NUMBER	CAUSE CODE	LEAD AUDITOR	ISSUE DATE	RESPONSE DUE DATE	COMPLETION DUE DATE	ACC/REJ DATE	VERIFY DATE	ITEM COUNT	
3011032	PPP	045	0000	0293	05	000	MAB	3/10/81	3/24/81	3/18/81	3/19/81	3/19/81
3011033	PPP	045	0000	0345	05	000	SLD	11/13/81	11/19/81	11/20/81	11/25/81	10/08/82

HANGER WERE FOUND TO BE IN VIOLATION OF PPP DRAWINGS AND PROCEDURES

NO OF ITEMS

2

CONSTRUCTION INSPECTION AR'S - ALL AAR'S BY RESPONSIBLE ORG.

FILE NUMBER	RESP ORG.	AUDIT NUMBER	AR NUMBER	APPEND B CRITERIA CODE	LEAD AUDITOR	ISSUE DATE	RESPONSE DATE	DUE DATE	COMPLETION DATE	ACC/REJ DATE	VERIFY DATE	ITEM COUNT
3011051	PPP	047	0000	0111	12	000	GF	11/07/78	11/21/78	11/09/78	11/13/78	11/13/78
3011051	PPP	047	0000	0173	05	000	CJF	8/09/79	8/16/79	8/20/79	8/21/79	8/21/79
3011051	PPP	047	0000	0177	05	000	LCL	8/17/79	8/24/79	8/24/79	9/26/79	9/26/79

NO OF ITEMS

3

4/04/83

ACTION REQUESTS

(PROGRAM E788755B)

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CONSTRUCTION INSPECTION AR'S

- ALL AAR'S BY RESPONSIBLE ORG.

FILE NUMBER	RESP ORG.	AUDIT NUMBER	AR NUMBER	APPEND B CRITERIA	CAUSE CODE	LEAD AUDITOR	ISSUE DATE	RESPONSE DUE DATE	RESPONSE DATE	COMPLETION DUE DATE	ACC/REJ DATE	VERIFY DATE	ITEM COUNT
3011032	PPP 044	0000	0533	15		TLC	10/21/82	11/03/82					
THIS AR IS CANCELLED. A NEW ECN WILL BE ISSUED.													
3011032	PPP 044	0000	0533	13	.15	CJF	10/21/82	11/04/82	11/04/82	11/04/82	A 11/15/82	11/15/82	
INSP. ON HOUSEKEEPING AND STORAGE OF THE CONTRACTOR NOTED NUMEROUS DEFICIENCIES													
3011032	PPP 044	0000	0538	15		GMD	10/29/82	3/22/83	3/18/83	3/18/83			
DURING DRILLING OPERATIONS THE CORE BIT CONTACTED AND CUT REBAR.													
3011051	PPP 044	0000	0438	05	000	TLC	9/08/81	9/18/81	9/21/81		9/22/81	9/23/81	
LINES HAVE OPEN ENDS AFTER CRAFT DONE WORKING FOR THE SHIFT													
3011051	PPP 044	0000	0440	09	000	EFP	9/10/81				9/15/81	9/15/81	
WHEN IS A FINAL ACCEPTANCE OF A PIPE SUPPORT; AT WHAT STAGE OF THE CONSTRUCTION?													
3011051	PPP 044	0000	0441	06	000	EFP	9/10/81	9/25/81	9/24/81		10/12/81	10/12/81	
NOTED WHILE CHECKING DRAW. AT S&D WORK STAT. THAT ECN HAD NOT BEEN POST. TO DRAW													
3011051	PPP 044	0000	0442	06	000	EFP	9/10/81	9/25/81	9/24/81		10/12/81	10/12/81	
WHAT PROVISIONS ARE THERE TO CONTROL IN-SPECTION OF UPGRADED N-S RELATED SYSTEMS													
3011051	PPP 044	0000	0443	09	000	EFP	9/10/81	9/25/81	9/24/81		10/12/81	10/12/81	
APPARENT LACK OF DETAIL IN REQUIRE. FOR QC CHECKLIST ON FIELD PROCESS SHEETS													
3011051	PPP 044	0000	0444	02	000	EFP	9/10/81	9/25/81	9/24/81		10/12/81	10/12/81	
DURING NRC REVIEW, NOTED EXCESSIVE TIME LAPSE BETWEEN HIRE DATE & ADMIN. OF TRAIN													
3011051	PPP 044	0000	0449	13	000	TLC	9/14/81	9/28/81	9/21/81		9/22/81	9/23/81	
SPOOL PC. HAS NOT YET BEEN REMOVED FROM RIGGING AFTER REPEATED NOTICE													

NO OF ITEMS

10

4/04/83

ACTION REQUESTS (PROGRAM E788755B)

CONSTRUCTION INSPECTION AR'S - ALL AAR'S BY RESPONSIBLE ORG.

FILE NUMBER	RESP ORG.	AUDIT NUMBER	AR NUMBER	APPEND B CAUSE CRITERIA CODE	LEAD AUDITOR	ISSUE DATE	RESPONSE DUE DATE	COMPLETION DATE	ACC/REJ DATE	VERIFY DATE	ITEM COUNT
3011032	PPP 527	0000	0555	09 15	JWB	12/14/82	1/14/83	1/17/83	1/17/83	1/31/83	

NO OF ITEMS RADIOGRAPHIC REVIEW SHEETS DO NOT INDICATE THE NAME OF PERSON INTERPRET RESULTS

4/04/83

ACTION REQUESTS

(PROGRAM E7887558)

CONSTRUCTION INSPECTION AR'S - ALL AAR'S BY RESPONSIBLE ORG.

FILE NUMBER	RESP ORG.	AUDIT NUMBER	AR NUMBER	APPEND B CRITERIA CODE	CAUSE LEAD AUDITOR	ISSUE DATE	RESPONSE DATE	DUE DATE	COMPLETION DATE	ACC/REJ DATE	VERIFY DATE	ITEM COUNT
3011051	PPPO44	0000	0388	10	000 JM	5/19/81	6/09/81	6/29/81		7/06/81	9/25/81	
						PRES0AK(SATURATION) ON EQUIP.	2P45C0001	ANDT EXTEND UNDER BASE PLATE ON 2 SIDES				
3011051	PPPO44	0000	0430	09	000 AA	8/18/81	8/25/81	8/24/81		9/29/81	9/29/81	
						PPP FOUND WORKING ON ISOLATION VALVE		WHICH IS STILL G.E.'S JURISDICTION.				

NO OF ITEMS

ACTION REQUESTS

CORRECTIVE ACTION REQUESTS'S (PROGRAM E788755B)

- ALL AAR'S BY RESPONSIBLE ORG.

FILE NUMBER	RESP ORG.	AUDIT NUMBER	AR NUMBER	APPEND B CAUSE CRITERIA CODE	LEAD AUDITOR	ISSUE DATE	RESPONSE DUE DATE	RESPONSE DUE DATE	COMPLETION DUE DATE	ACC/REJ DATE	VERIFY DATE	ITEM COUNT
CAR0432	PPP	0000	0000		TJA	2/08/78	2/15/78	2/15/78		2/18/78	2/18/78	
CAR0440	PPP	0000	0000		REC	6/01/78	6/09/78	6/02/78		6/02/78	6/02/78	
CAR0493	PPP	0000	0000	00	PLG	3/31/80	4/07/80	6/09/80		A 9/09/80	9/09/80	
CAR0496	PPP	0000	0000	00	REC	5/30/80	6/06/80	6/04/80		A 6/09/80	6/09/80	
CAR0502	PPP	0000	0000	00	GP	9/10/80	9/19/80	9/25/80		A 11/03/80	11/03/80	
CAR0503	PPP	0000	0000	00	GP	9/24/80	12/05/80	12/04/80		A 12/23/80	12/23/80	
CAR0505	PPP	0000	0000	00	MAB	2/02/81	2/16/81	2/24/81		A 6/12/81	6/12/81	
CAR0507	PPP	0000	0000	00	LFY	2/17/81	2/27/81	2/25/81		A 3/03/81	3/06/81	
CAR0509	PPP	0000	0000	00	TLC	4/20/81	5/06/81	7/14/81		A 7/20/81	7/20/81	
CAR0510	PPP	0000	0000	00	GP	5/29/81	6/12/81	6/12/81		A 4/05/82	4/06/82	
CAR0538	PPP	0000	0000	00	CNR	3/22/77		3/22/77		4/07/77	4/07/77	
CAR0545	PPP	0000	0000	00	GBB	1/06/78						
CAR8217	PPP	0000	0000	00								

NO OF ITEMS
 PURGE DAM MATERIAL 7-0015-3 CWS POLYVINYL ALCOHOL FILM SHOULD BE DISCONTINUED
 A 9/29/82 9/29/82

ACTION REQUESTS

(PROGRAM E7887558)

CORRECTIVE ACTION REQUESTS'S

- ALL AAR'S BY RESPONSIBLE ORG.

FILE NUMBER	RESP ORG.	AUDIT NUMBER	AR NUMBER	APPEND B CAUSE CRITERIA CODE	LEAD AUDITOR	ISSUE DATE	RESPONSE DUE DATE	RESPONSE DATE	COMPLETION DUE DATE	ACC/REJ DATE	VERIFY DATE	ITEM COUNT
CAR8222	PPP	044	0000	07	.09 CEE	9/24/82	10/20/82	10/20/82	10/29/82	A 10/20/82	12/21/82	
CAR8305	PPP	044	0000	14	JWB	3/28/83	4/04/83					

NO OF ITEMS

DURING REVIEW OF RADIOGRAPHIC FILM AT PPP, SIGNIFICANT # OF DEFICIENCIES NOTED.

Copied 4/13/83

50.55(e) 5

64

PNPP No. 5609

INFORMATION ONLY

DEVIATION ANALYSIS REPORT LOG

For Report pursuant to 10CFR50.55(e) - Notify the NRC within 24 hours after identification of deficiency. Issue written report within 30 days.

For Report pursuant to 10CFR21 - Notify the NRC within 48 hours after receipt of information. If notification by means other than written report, a written report is required within 5 days after information is received.

NO.	ORIG BY/ DATE	DESCRIPTION RESP. ORGANIZATION	SYST/ SPEC	ENG. EVAL BY/ DATE	QA EVAL BY/ DATE	REPORTABLE		WRITTEN REPORT DUE DATE	WITH-DRAW BY/ DATE	10CFR50.55(e) REPORT NO. (DEFICIENCY)	10CFR21 REPORT NO. (DEFECT/ NONCOMPLIANCE)
						NO	YES (DATE REPORTED)				
							50.55(e) 10CFR21				
23	R. D. ... 3/29/83	Control Complex Chilled Water Systems Design conflicts with FSAR	P47	A. Niogas J. Bellack 4/6/83	Neuendorf 4/10/83 Riley for subtask 4/17/83		E. Riley 4/7/83	5/6/83			
24	R. Reifsnider 3/31/83	Carbolme's Class I Steel Coating System as identified by Metalweld CAR #1230-004	SP64	R. Salkowicz J. Lastovka 4/8/83	Sturser 4/8/83		Riley 4/8/83	5/6/83			
25	D. Graw 4/6/83	Borg-Warner Valve radiograph		L. Wynn J. Lastovka 4/6/86 J. Lastovka 4/11/83	Walls Shuster 4/11/83		E. Riley 4/11/83	5/11/83			

/R/1/m1

INFORMATION ONLY

PNPP No. 5609

DEVIATION ANALYSIS REPORT LOG

For Report pursuant to 10CFR50.55(e) - Notify the NRC within 24 hours after identification of deficiency. Issue written report within 30 days.

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							YES (DATE REPORTED)					
							50.55(e)	10CFR21				
119	Higaki 3/10/81	Reinspection of welds / Ref: NR LKC 1822. LKC	SP33	Stear Lastovka 3/15/83	Higaki Shuster 3/16/83	✓	N/A	N/A	N/A	N/A	N/A	N/A
120	Pelcic/Ware 3/9/83 Received in	Differential Pressure Transmitters/Design conflicts with FSAR PWASen 3/11/83	1M15	Pender Lastovka 3/14/83	Pelcic Shuster 3/16/83		E. Riley 3/16/83		4/15/83			
121	J. Furness 3/18/83	JCI has failed to adequately verify the acceptability of the material purchased from Unistrut JCI	SP90	Lockwood Eppich Lastovka 3-21-83 Inspected by Adams 3/21/83	J. Forey C. Shuster 3/28/83		E. Riley 3/29/83		4/28/83			
122	R. Sagen 3/23/83	Cubicle on load center has no spot weld connecting the rear vertical corner center w/ the rear horizontal channel Brown Boveri/P.O.	2R23	D'Amico Eppich 3/29/83	Sukansizer Shuster 3/29/83		E. Riley 3/29/83		4/28/83			

DEVIATION ANALYSIS REPORT LOG

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							YES (DATE REPORTED)					
							50.55(e)	10CFR21				
115	Boyd 2/1/83	24 hydrogen igniters - breach of seal integrity of the igniter tip component Power Systems Division		Christiana Eppich 2/7/83	Segen Martin 2/7/83	N/A	Kerr 2/7/83	N/A	3/9/83	N/A	65(83)	N/A
116	Segen 2/14/83	Class 1E Station Batteries Exide	SP554	D'Amico Lastooka 2/22/83	Segen C. Shuster 2/22/83	✓	N/A	N/A	N/A	N/A	N/A	N/A
117	H. Salinas 2/17/83	Skid mount and pipe supports not built to ASME Sec III, Class NF Transamerica, Delawal	R46 SP562	Pusateri Lastooka 2/22/83	Hrubal Shuster 2/23/83	N/A	E. Riley 2/23/83	N/A	3/25/83	N/A	67(83)	N/A
118	Higaki 2/22/83	Possible indeterminate status of field inspections for some items REF NRC RC 1777-1795, and CAR 83-02	SP33	G. Shuster Lastooka 3/1/83	Higaki Riley Shuster 3/2/83	✓	N/A	N/A	N/A	N/A	N/A	N/A

INFORMATION ONLY

PNPP No. 5609

DEVIATION ANALYSIS REPORT LOG

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							YES (DATE REPORTED)					
							50.55(e)	10CFR21				
111	Gilstrap/Solt 12-21-81	G.E. encountered problems with welds for main steam whip restraints. COS/PQS	B21/B33	P. Nichols J. Eppich 12/23/82	Swansiger 12-23-82/ C. Shuster 12/28/82	N/A	Potential Parker 12/28/82	N/A	1/27/83	N/A	64(83)	N/A
112	Mathys 12-23-82	Drillco core bore type bits were used for drilling tilt bolts, which is in violation of tilt spec. / PPP	SP 208 SP. 44	J. Wilcox J. Lastovka 1-3-83	R. Mathys 1-3-83 C. Shuster 1-4-83	✓	Potential Riley 1/4/83	N/A	2/3/83 N/A KCK	E. Riley 1/25/83 letter of explanation sent to Region III on 2/3/83 at J. Konklm request	N/A	N/A
113	Aliskey 1/14/83	Pushbutton stations furnished for 2 Limit torque motor operators are not class 1E overly	P45 SP530	R. Bonner 1/20/83 J. Lastovka 1/21/83	T. Swansiger G. Tillisky C. Shuster 1/24/83	✓	N/A	N/A	N/A	N/A	N/A	N/A
114	E. Riley 1/31/83 called for number Kritzer Shambaugh	Installed Hilti Kwik bolts do not conform to requirements of SP-208 Project Organization	SP208	G. Leideg J. Eppich 4/7/83	Kritzer Martin for Shuster 7/7/83	N/A	Identical J. Kerr 2/7/83	N/A	3/9/83	N/A	66(83)	N/A

DEVIATION ANALYSIS REPORT LOG

INFORMATION ONLY

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DAR NO.	ORIG BY/ DATE	DESCRIPTION RESP. ORGANIZATION	SYST/ SPEC	ENG. EVAL BY/ DATE	QA EVAL BY/ DATE	NO	REPORTABLE		WRITTEN REPORT DUE DATE	WITH-DRAW BY/ DATE	10CFR50.55(e) REPORT NO. (DEFICIENCY)	10CFR21 REPORT NO. (DEFECT/ NONCOMPLIANCE)
							YES (DATE REPORTED) 50.55(e)	10CFR21				
107	Mathys Riley 9-24-82	PPP upgraded CLASS III MATERIAL FOR USE IN CLASS II SYSTEMS PULLMAN POWER	SP44	J. Wilcox J. Eppich J. Lastovka 9/28/82	R. Farrell 9-30-82	✓	N/A	N/A	N/A	N/A	N/A	N/A
108	Tilisky 10-4-82	IF Pacific Scientific snubbers are tested by others May be damaged 10CFR21 report rec'd	SP527	J. Wilcox J. KATONAK J. Lastovka 10-11-82	R. Farrell 10-11-82	✓	N/A	N/A	N/A	N/A	N/A	N/A
109	Boyd 11-15-82	Commercial Grade Wire used in certain engine and panel circuits for IE cable has failed IEEE-383 Flame Test Transamerica/Delaval	SP56Z	Christiansen/ J. Lastovka 11/22/82	B. Boyd R. Farrell 11/23/82	N/A	Potential Riley 11/23/82	N/A	12-23-82	N/A	63(82)	N/A
110	Tilisky 12-10-82	Two limit torque oper. are of commercial grade, not intended for CLASS IE Nuclear Overly Mfg.	P45 SP530	Christiansen/ Eppich 12-17-82	Swanson/ C. Snusker 12-22-82	✓	N/A	N/A	N/A	N/A	N/A	N/A

INFORMATION ONLY

DEVIATION ANALYSIS REPORT LOG

Report pursuant to 10CFR50.55(e) - Notify the NRC within 24 hours after identification of deficiency. Issue written report within 30 days.

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R P.	ORIGINATED BY/DATE	DESCRIPTION RESP. ORGANIZATION	SYST/ SPEC	ENG. EVAL BY/DATE	QA EVAL BY/DATE	REPORTABLE		WRITTEN REPORT DUE DATE	WITHDRAW BY/DATE	10CFR50.55(e) REPORT NO. (DEFICIENCY)	10CFR21 REPORT NO. (DEFECT/ NONCOMPLIANCE)	
						NO	YES (DATE REPORTED)					
							10.55(e)					10CFR21
4	R. Reifsnyder 8-11-82	Class 1 steel coating system 191/CZ #11 Metalweld	SP.64	Salkiewicz Green 8-23-82	Farrell 8-24-82	✓	N/A	N/A	N/A	N/A	N/A	N/A
5	W. Kahler 8-11-82	GE HMA relays may not be fully insulated General Electric	SP.301	E. Willman J. Bellack 8-18-82	Farrell 8-18-82	N/A	Potential Riley 8-18-82	N/A	9-17-82	N/A	61(82)	N/A
6	W. Kahler 8-11-82	Incorrect "wipe set- ting" on some converted HFA relays General Electric	SP.301	E. Willman J. Bellack 8-18-82	Farrell 8-18-82	N/A	Potential Riley 8-18-82	N/A	9-17-82	N/A	62(82)	N/A
PA 1501, Rev 2. eff. 9-15-82												

INFORMATION ONLY

DEVIATION ANALYSIS REPORT LOG

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AR NO.	ORIGINATED BY/DATE	DESCRIPTION RESP. ORGANIZATION	SYST/ SPEC	ENG. EVAL. BY/DATE	QA EVAL BY/DATE	REPORTABLE		WRITTEN REPORT DUE DATE	WITHDRAW BY/DATE	10CFR50.55(e) REPORT NO. (DEFICIENCY)	10CFR21 REPORT NO. (DEFECT/ NONCOMPLIANCE)	
						NO	YES (DATE REPORTED)					
						10.55(e)	10CFR21					
99	6-8-82 J. Litchfield R. Vondrasek	Standby Diesel Generator; Model DSRU/CopScrew in Starting Air Valve Assembly Transamerica Delaval	SP.562	Pusateri Bellack 6/14/82	Farrell 6-15-82	N/A	Vondrasek Potential 6-15-82	N/A	7/15/82	N/A	(57) 82	N/A
00	6-23-82 D. Grow R. Vondrasek	Valve Actuator Yokes G.H. Bettis Co.	SP.641	H. Stockman Litchfield Lastovka 7-8-82	Vondrasek (for Farrell) 7-8-82	N/A	Vondrasek Potential 7-8-82	N/A	8/6/82	N/A	58(82)	N/A
01	7-16-82 W.J. Boyd R. Vondrasek	Governor Drive Coupling, not suit- able for engine's Gear Case Transamerica, Delaval	SP.562	Pusateri Bellack 7/29/82	Farrell 7-30-82	N/A	Vondrasek 7/30/82	N/A	8/27/82	N/A	59(82)	N/A
02	7-27-82 P. Cavarnos G. LEIDICH E. Riley	Weld sizes on design DWGS. DO not comply with ASME Sect. III (NDS)	SP.44	Lastovka Pech 8/3/82	Riley Farrell 8-4-82	✓	N/A	N/A	N/A	N/A	N/A	N/A
03	7-29-82 R. Matthys G. Leidich	Stauff tubing Glamps found to be undersized		D. Lockwood 8-5-82 Eppich 8-5-82	Vondrasek (for Farrell) 8-5-82	N/A	Vondrasek Potential 8-6-82	N/A	9/3/82	N/A	60(82)	N/A

DEVIATION ANALYSIS REPORT LOG

INFORMATION ONLY

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DAR NO.	ORIGINATED BY/DATE	DESCRIPTION RESP. ORGANIZATION	SYST/SPEC	ENG. EVAL BY/DATE	QA EVAL BY/DATE	REPORTABLE		WRITTEN REPORT DUE DATE	WITHDRAW BY/DATE	10CFR50.55(e) REPORT NO. (DEFICIENCY)	10CFR21 REPORT NO. (DEFECT/NONCOMPLIANCE)	
						NO	YES (DATE REPORTED)					
							10.55(e)					10CFR21
94	RG Peters 4/20/82	Welding/Cable Tray and Conduit Hangers Comstock	SP33	Lastovka 4/30/82	Farrell 4/30/82	N/A	Riley 4/30/82	N/A	5/28/82	N/A	56(82)	N/A
95	D. Bruyer 4/19/82	M-Relay Contacts Class IE Motor Control Centers (Cutler Hammer)	SP557	Bonner Green 4/26/82	to Vondrasek 4/26/82 = Farrell 4/30/82	N/A	Riley 4/30/82	N/A	5/28/82	N/A	54(82)	N/A
96	D. Bruyer 4/27/82	Nut/Gland Assembly for 912 DC Contactor in Motor Control Center found not to be seismically qual.	ZR42 SP557 <small>Cutler Hammer</small>	Bonner Green 4/26/82	to Vondrasek 4/26/82 = Farrell 4/30/82	N/A	Riley 4/30/82	N/A	5/28/82	N/A	55(82)	N/A
97	5/11/82 GDaderko	Medusa Cement/Type IA received rather than type II. (NMCC 14)	SP14	Lastovka 5/12/82	Kritzer Vondrasek (for Farrell) 5/21/82	✓	N/A	N/A	N/A	N/A	N/A	N/A
98	5/26/82 T. Swansiger	Valves/Fabricated from spark-resistant metal.	N104	Lastovka Litchfield 6/4/82	Vondrasek (for Farrell) 6/4/82	✓	N/A	N/A	N/A	N/A	N/A	N/A

INFORMATION ONLY

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34	R Williams 2/22/82	Value Identification (+traceability)	Various	Eppich 3/1/82 Barkley 3/4/82	Farrell 3/4/82	N/A	Potential R Vondrasek 3/4/82	N/A	4/2/82	N/A	48(82)	N/A
35	T Thompson 3/1/81 Rcvd in TAS 3/8/82	Rockbestos Cable/ Insulation on Conductors found to be brittle	SP44 IR46	E Williams 3/27/82 Green 3/2/82	Vondrasek for Farrell 3/29/82	✓	N/A	N/A	N/A	N/A	N/A	N/A
36	3/3/82 R. Solt	Reactor Vessel Water Level Transmitters BZ1-NO80D General Elec. 10CFR21	BZ1 SP301	Green 3-9-82 Barkley 3-11-82	Farrell 3/12/82	N/A	Riley 3/12/82	N/A	4/9/82	N/A	49(82)	N/A
37	3/3/82 R. Solt	Potter-Brumfield Relays	1H13 2H13 SP301	Green 3-9-82 Barkley 3-11-82	Farrell 3-17-82	✓	N/A	N/A	N/A	N/A	N/A	N/A
38	3/5/82 Shambaugh Sheer	QA Control of Material, Fabrication, & Installation of Duct Supports by	Various	Dieckman 3/22/82 Green 3/27/82	Vondrasek for R Farrell 3/22/82	✓	Leidich Potential 3/23/82 N/A	N/A	4/19/82 N/A	4/23/82 E. Riley first call 11-21-82	N/A	N/A

INFORMATION ONLY

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						10.55(e)	10CFR21					
9	12/10/81 D Grow A Lambacher	Starting Air System Check Valve on Transamerica Deval DSRV 16	IR44 ZR44 SP56Z	Barkley 12/18/81 Pawaler 12/16/81	Lambacher Farrell 12/18/81	N/A N/A	R. Vondrasek 12/18/81	N/A	1/15/82	N/A	43(82)	N/A
0	1-5-82 G. Daderko	Cadweld Allegation DICK Corp	SP19	T. Kazwony B. Barkley 1-8-82	R. Farrell 1-8-82	✓	Potential E. Riley 1-8-82	N/A	2/5/82 N/A MKC	Withdrawn by E. Riley on 1/22/82	N/A	N/A
1	1-7-82 A. LAMBACHER	Governor Lube Oil Cooler (Heat Exchanger, Stand by Diesel Generator Sys.) TRANSAMERICA DEVAL INC	IR43 ZR43 SP.56Z	Barkley 1/14/82 Pawaler 1/13/82	Riley for Farrell 1-14-82	N/A N/A	E. Riley 1-14-82	N/A	2/12/82	N/A	45(82)	N/A
2	1-28-82 G. Tilisky	CII System Stress Analysis for CRD System Piping	CII V.571	BARKLEY 2-8-82 EPPICH 2-8-82	Farrell 2/9/82	N/A	R. Vondrasek 2/9/82 Potential	N/A	3/11/82	N/A	46(82)	N/A
3	received in TAs 2-9-82 Dated 1-9-82 GILSTRAP 1/15/82	Insufficient & inaccurate info. AS REG. BIASME Sect. III on code reports	Various	H. Putre B. Barkley 2/22/82	K. Farrell 2/23/82	N/A	Potential 2/23/82 R. Vondrasek	N/A	3/23/82	N/A	47(82)	N/A

DEVIATION ANALYSIS REPORT LOG

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74	R. CZYZEWSKI E. RILEY 11/17/81	2 VOIDS IN BIOLOGICAL SHIELD CONCRETE IN REACTOR BUILDING #2 (Necce)	SP 20	No per H Reppert B Barkley 12-1-81	R Farrell yes/pot- ential 12-1-81	N/A	Potential E Riley 12-1-81	N/A	12-30-81	N/A	42(81)	N/A
75	G Gilstrap 11/23/81	Possible min. wall violation in Main Steam Process Pipes 1B21-G001-028 A,B,C,D ITT Grinnell	1B21 SP301	Nichols 12/7/81 Barkley 12/9/81	R Farrell 12/10/81	✓	N/A	N/A	N/A	N/A	N/A	N/A
76	A. LAMBACHER 11/30/81	INSULATION THICKNESS OF CONDUCTORS, IS LESS THAN 90% OF NOMINAL VALVE. CLASS 1E SMALL POWER AND CONTROL CABLE. (Rockbestos)	SP 560	D. Green B. Barkley 12-1-81	R Farrell 12-1-81	✓	N/A	N/A	N/A	N/A	N/A	N/A
77 plus 7, Rev 1	T Thompson D Goodrich 12/1/81	Attachment welds on 4160 Switchgear LKC	1R22 2R22 SP 33	Will man Stear Green Barkley 12/9 & 12/10/81	R Farrell 12/10/81	✓	Potential E Riley 12/10/81	N/A	1-8-82 N/A	Withdrawn by E Riley on 1-8-82	N/A	N/A
78	T. SWAN- SINGER 12/10/81	SEISMIC CLEARANCE OF PUMPS	P49 1R45 2P45	Pesch Barkley 12/21/81	Farrell 12/21/81	N/A	R. Vondrasek 12/21/81	N/A	1-20-82	N/A	44(82)	N/A

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							10.55(e)					10CFR21
69	J. Gilstrap R. Vondrasek (P. Kelly Alt. For) 9/17/81	RWCU Heat Ex- changers Weld Documentation	1G33 Syst.	P. Nichols B. Barkley 10-1-81	R. Farrell 10/1/81	✓	10/1/81 E. Riley	N/A	10/30/81 N/A	E. Riley 10/30/81	N/A	N/A
							Reviewed by K. D. [unclear] for further questions Ref IE Report 50-440/83-02, 50-441/83-02 dated 3/9/83					
10	D. Goodrich 10/12/81	Panduit ABM25-A-D Cable Tie Mounting Devices	SP33	T. Stear B. Barkley 10/19/81 10/21/81	S. Tolk R. Farrell 10/22/81	✓	N/A	N/A	N/A	N/A	N/A	N/A
71	G. Tilisky 10-12-81	Unacceptable Indications in Polar Crane Girder, Unit II (W.N.I.C.)	ZL51 SP660	Keaveney for Barkley 10/15/81	Farrell 10/15/81	N/A	10-17-81 Potential V. Higaki	N/A	Nov 12, 1981	N/A	RDC 39(81)	N/A
72	G. Tilisky 10-29-81	Material in 22 4" Elbows/Schedule 40 (PPP)	1E12 1E32 2P11 2E12 SP527	J. Wilcox B. Barkley 11-10-81	R. Farrell 11-10-81	N/A	11-11-81 E. Riley	N/A	12/11/81	N/A	RDC 41(81)	N/A
73	C. Hubbach 11-12-81	Floor Plate Welding in Unit 1 Contain-	SP17	B. Barkley 11-12-81	E. Riley for R. Farrell 11-12-81	N/A	11-12-81 E. Riley	N/A	12/11/81	N/A	RDC 40(81)	N/A

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4	C.J.Fennell 8/31/81	Pullman Power Products Pipe Spool Sandblasting Operation	SP 44/47	B Barkley 9/11/81	R Vondrasek for R Farrell 9/11/81	N/A	Potential 8/31/81 W.S. Kacer	N/A	9/30/81	N/A	36(81)	N/A
5	Alambacher 9/4/81 10CFR21	Transamerica Delayed - Defective intake and exhaust valve springs supplied by Melrose Spring Co	SP562 1R43 2R43	B. Barkley 9/8/81	R Farrell 9/9/81	✓	N/A	N/A	N/A	N/A	N/A	N/A
6	R Williams G Leidich 9/10/81	Stainless Steel Piping Subassemblies Pullman Power	SP44 SP527 G41	C Flenberg C Banks for B Barkley 9/24/81	R Farrell 9/25/81	N/A	Potential 9/24/81 W.S. Kacer	N/A	10/23/81	N/A	38(81)	N/A
7	J. Lawsberg 9/11/81	Limit torque Operator SMB-3, SMB-4, or SMB-5 for Pinion Key		Eppich Barkley 9/15/81	J. Lawsberg rebuttal 9/22/81 R Farrell 9/22/81	✓	Potential 9/22/81 W.S. Kacer	N/A	10/22/81 N/A	R Farrell 10/22/81	39(81) N/A	N/A
8	S. Tulk 9/11/81	Cable Tray Splice Bolts	SP33 SP558	T Stear B. Barkley 9/17/81	R Farrell 9/18/81	N/A	Potential 9/18/81 G.R. Leidich for W.S. K.	N/A	10/16/81	N/A	37(81)	N/A

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59	G Tilisky 6/22/81	Axial Flow fans; fan housing thickness Buffalo Forge	SP 648 Syst. M 32 M 43	Barkley 6/23/81	Vondrasek 6/23/81	N/A Potential 6/22/81	N/A	7-22-81	N/A	31(81)	N/A
60	R Solt 6/25/81	720 Utility Station GE/Bailey Controls	GE N555 H13 H51	Willman Barkley 6-26-81	Vondrasek 6-26-81	N/A Potential 6-26-81	N/A	7-24-81	N/A	32(81)	N/A
61	R Solt 6/25/81	CR2940 Control Switch GE	SP 301	Willman Barkley 6-26-81	Vondrasek 6-26-81	N/A Potential 6-26-81	N/A	7-24-81	N/A	33(81)	N/A
62	W. Libre 7/10/81	Bioshield Walls Units #1 & 2/ Heavy Weight Concrete (NECC)	SP 20	Barkley 7-14-81	Vondrasek 7-15-81	N/A Potential 7-15-81	N/A	8-14-81	N/A	34(81)	N/A
63	A.H. Lambacher 8/17/81	Rockbestos COAXIAL Cable - Performance under LOCA Conditions	SP 723.01	T Stear D Green (alt for B. Barkley)	W Kacer (alt for RL Farrell) 8/20/81	N/A 8-20-81	N/A	9-18-81	N/A	35(81)	N/A

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54	G Presby/ V Higaki 6/1/81	Single Failure Criterion / G-50 System - Radwaste Isolation GAI	G-50 system	K Pech B Bartley 6/10/81	Farrell 6/10/81	✓	N/A	N/A	N/A	N/A	N/A	
55	G Presby/ V Higaki 6/1/81	Single Failure Criterion / G-50 System - Safety Class 3 Tanks GAI	G-50 System	K Pech B Bartley 6/10/81	Farrell 6/10/81	✓	N/A	N/A	N/A	N/A	N/A	
56	G Presby/ V. Higaki 6/1/81	Single Failure Criterion / R44 System - Receiver Tank Sensing GAI	R44 System	Barkley 6/12/81 K. Pech 6/12/81	Farrell 6/12/81	N/A	6-12-81	N/A	7-10-81	N/A	30(81)	N/A
57	G Tilisky R Vondrasek 6/3/81	Control Rod Drive piping socket welds PPP	SP527 C11 system	Eppich Barkley 6/3/81	Farrell 6/5/81	N/A	Potential 6/3/81	N/A	7/3/81	N/A	29(81)	N/A
58	J. Gilstrap 6/4/81	B-Main Steam Head (1B21-G010B)	SP38 1B21 system	Nichols Barkley 6/19/81	PP Martin 6/19/81	✓	Potential 6/19/81 M/C	N/A	7-17-81	R Vondrasek 7-17-81	N/A	N/A

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49	J. Everett 5-1-81	Containment Spray Piping in Unit 1 Dome NTS/PPP	SP 44 E-15 Syst	Biddlecom 5-20-81 Lastovka 5-21-81 Putre, Barkley 5/22/81	PPN 5/28/81	N/A	Potential 5-1-81	N/A	6-1-81 WJC 5/28/81 N/A	WJ Kacer 5/28/81	N/A	N/A
50	G. Tilisky 5-12-81	Fabrication of Braided Stainless Steel Metal Hose Assemblies w/o approved QA Program Metal Bellows	SP 791 Syst B21	Wynn Erpich B 5/20/81 Barkley 5/21/81	Tilisky 5/22/81 + 6/1/81 Farnell 6/2/81	✓	N/A	N/A	N/A	N/A	N/A	N/A
51	Higaki/ Solt 5/18/81	FDI & FDDR's issued prior to March 1980 did not receive QA Review GE	SP 301 Syst. N/A	Putre Barkley 5/20/81	ESolt 6/2/81 Farnell 6/3/81	N/A	Potential 4/3/81	N/A	7/3/81 extended to 7/31/81	W-J. Kacer 7-31-81	N/A	N/A
52	Ware/ Leidich 5/22/81	Concrete Cracks and Spalls Nat. Eng.	SP 20 Syst N/A	R Brown B Barkley 5/29/81 + 6/1/81	Farrell 6/2/81	N/A	Potential 6/2/81	N/A	7/2/81	N/A	28(81)	N/A
53	G Presby/ V Higaki 6/1/81	Single Failure Criterion / G 41 System - Surge Tank Isolation	G 41 Syst	Kitch B Barkley 6/10/81	Farrell 6/10/81	✓	N/A	N/A	N/A	N/A	N/A	N/A

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45	G. Leidich W. Kacer 1-23-81	Breakdown in Quality Program of Protective Coatings Contractor Metalweld	SP 64 Misc syst.	Salkiewicz Barkley 2-23-81	Connelly Edelman 2-26-81	N/A	Potential 1-23-81	N/A	2-22-81	N/A	25(81)	N/A
46 ⊙	P. Kelly 1-14-81	Limit Switches NAMCO Controls	SP 607 49/91 641 521 531 misc. Syst.	Thomas Green Barkley 1-30-81	To P. Martin on 1-30-81 QA Rejected Engineering Summary Analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A
46 Rev. 1	P. Kelly 2-3-81	Limit Switches NAMCO Controls	SP 607 49/91 641 521 531 misc. Syst.	Thomas Green Barkley 2-10-81	Edelman 2-10-81	N/A	Potential 2-10-81	N/A	3-12-81	N/A	26(81)	N/A
47	T. Swansiger 4-8-81	Anchor and Barrier Plate Material on Some Safety- Related Penetrations PPP/GAI	SP 527 misc. Syst.	Peck 4-8-81 Barkley Flensberg 4-22-81	Kacer 4-8-81 Edelman 4-22-81	N/A	4-8-81	N/A	5-8-81	N/A	27(81)	N/A
48	G. Tilisky 4-10-81	Fan and Motor Sheaves found to be non-safety when were required by Spec to be safety- related	SP 645 Syst. M-23 M-24	Barkley Drechmann Jadqchew 4-22-81	Edelman 4-22-81	✓	N/A	N/A	N/A	N/A	N/A	N/A

⊙ Voided by DAR 46, Rev. 1

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40	T. Swansiger 10-27-80	Guard Pipe Material Classification (Tube Turns)	SP 525 Syst. N/A	Eppich 11-10-80	Edelman 11-11-80	✓	Potential 10-27-80	N/A	11-26-80	W. Kacer 11-17-80	N/A	N/A
												Reviewed by K.D. abrd. no further questions Ref. I.F. Report 50-440/83-02; 50-441/83-02 dated 3/9/83
41	R. Crofton 11-3-80	Fuel Pool Penetration Piping (UNICO)	SP 53 6-42 System	Barkley 11-14-80	Edelman 11-14-80	N/A	Potential 11-3-80	N/A	12-3-80	N/A	22(80)	N/A
42	P. Gibson 11-7-80	CLASS I Nuclear Coatings NDS-SP 64	SP 64 Syst. N/A	Barkley 11-21-80	Edelman/ Kacer 11-21-80	✓	N/A	N/A	N/A	N/A	N/A	N/A
43	G. White 12-18	RPS Flexible Conduit Grounding in PGCC Installations (GE) 10CFR 21	SP 591 H13 Syst.	Christiansen Barkley 12-18-80	Edelman 12-18-80	N/A	to J. Hughes 12-18-80 to J. KonKlin 12-19-80 at EG Jng. Exit Meeting	N/A	1-16-81	N/A	23(81)	N/A
44	A. Lambacher 1-2-81	Standby Diesel Generator Model DSRV16	SP 562 R47	Barkley 1-5-81	Edelman 1-5-81	N/A	to J. Hughes & J. KonKlin on 12-30-80	N/A	1-29-81	N/A	24(81)	N/A

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						NO.	YES (DATE REPORTED)					
							10.55(e)	10CFR21				
5	M. Brown 8-8-80	Ruskin Fire Dampers 10CFR 21 (RI)	SP 49/ 91 Misc. Systems	Dieckma 8-14-80 Barkley 8-21-80 10-17-80	Edelman 10-20-80	N/A	Potential 8-13-80	N/A	N/A	10/21/80 w/ Kacet per letter to J. Hughes	N/A	N/A
							Reviewed per IE report 50-440/82-16, 82-15 dated 12/15/82 No further questions					
36	K. Pech 8-28-80	Containment Vessel Attachment Plates (NNICO)	SP 660 Syst. N/A	Barkley 8-28-80 9-12-80	Martin 8-28-80 Edelman 9-12-80	1	Potential 8-15-80	N/A	9-14-80	H. Edelman 9-12-80	N/A	N/A
37	P. Gibson 10-6-80	Problem w/ Stainless Steel Cladding Inside Containment P/O, GAI, NNICO	SP 17 G41 G42 G43 Syst.	Barkley 10-8-80	Edelman 10-8-80	N/A	Potential 10-6-80	N/A	11-5-80 Extended per telecon of 11-6-80 to 11-12-80	N/A	19(80)	N/A
38	G. White 10-7-80	Standby Diesel Generator Model DSIRV6 (Trans. Delaval)	SP 562 R43 Syst.	Christiansen 10-8-80 Barkley Groscup 10-8-80	Edelman 10-8-80	N/A	Potential 10-8-80	N/A	11-7-80	N/A	20(80)	N/A
39	D. Blystone G. Leidich 10-9-80	Qualification Testing of Hilti-Kwik Bolts	SP 208 Misc.	Barkley 10-10-80	Edelman 10-10-80	N/A	Potential 10-10-80 called also 11-6-80 to ID Vendor	N/A	11-6-80	N/A	21(80)	N/A

INFORMATION ONLY

DEVIATION ANALYSIS REPORT LOG

Report pursuant to 10CFR50.55(e) - Notify the NRC within 24 hours after identification of deficiency. Issue written report within 30 days.

Report pursuant to 10CFR21 - Notify the NRC within 48 hours after receipt of information. If notification by means other than written report, a written report is required within 5 days after information is received.

NO.	ORIGINATED BY/DATE	DESCRIPTION RESP. ORGANIZATION	SYST/ SPEC	ENG. EVAL. BY/DATE	QA EVAL BY/DATE	REPORTABLE		WRITTEN REPORT DUE DATE	WITHDRAW BY/DATE	10CFR50.55(e) REPORT NO. (DEFICIENCY)	10CFR21 REPORT NO. (DEFECT/ NONCOMPLIANCE)	
						NO	YES (DATE REPORTED)					
						10.55(e)	10CFR21					
30	R. Crofton 6-4-80	Use of Mono-Sol brand 7-0015-3 CWS Polyvinyl Alcohol Film, Water Soluble Purge Dam Mat. (PPP)	SP 44/ 45/ 47 Misc. Syst.	J. Eppich	Kacer 6-12-80	N/A	6-12-80	N/A	7-12-80	N/A	18(80)	N/A
31	T. Swansiger 6-4-80	Unit 2 P11 Supply Line to E22 + E51 (GAI)	P11 Syst.	P. Nichols 6-16-80 Barkley 6-25-80	Edelman 6-26-80	✓	N/A	N/A	N/A	N/A	N/A	N/A
32	C. Hubbuck/ R. Vondrasek 6-20-80	Attachment of Pool Liners to ASME III Pipe (NNICO)	SP 53 G41 Syst.	Barkley 6-25-80	Edelman	✓	N/A	N/A	N/A	N/A	N/A	N/A
33	H. Krtzer/ R. Vondrasek 6-30-80	Class "A" Fill	SP 1- 215 Syst. N/A	Barkley 8-5-80	Edelman 8-7-80	✓	N/A	N/A	N/A	N/A	N/A	N/A
34	G. Earley 8-11-80	Post-LOCA H ₂ Analyzed Drive Shaft	SP 61/ MSI	Barkley 8-20-80	Kacer for Edelman 8-22-80	✓	N/A	N/A	N/A	N/A	N/A	N/A

DEVIATION ANALYSIS REPORT LOG

INFORMATION ONLY

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						NO	YES (DATE REPORTED)				
							10.55(e)				
26	P. Gibson 4-29-80	Sampling of Class "A" Fill	SP 2/ SP 93 syst N/A	K. Pech	Edelman 5-14-80	✓ *	N/A	N/A	N/A	N/A	N/A
						* Please note: the documents were evaluated by E. Gallagher on 5-7-80 (NRC)					
27	G. White 4-28-80	Model 510 DU Trip Calibration Units/ 1152 Pressure Transmitters (GE)	SP 301 Misc Syst.	E. Christiansen D. Green 5-23-80	Edelman 6-3-80	N/A	6-3-80	N/A	7-3-80	N/A	16(80) N/A
28	G. White 4-28-80	Radiographs for Dickers Safety Relief Valves (GE)	SP 301 B21 Syst.	Unresolved item 440/80-05-01; 441/80-05-01 IE Report 50-440/82-03; 50-441/82-03, dated April 4, 1982 ** Reference also unresolved IRL Item 490/80-05-01; 491/80-05-01. NRR Requires Report							was closed out in dated April 4, 1982
29	T. Thompson 5-2-80	MCC Splice Plate Bolts (Cutler Hammer)	SP 557 R24 Syst.	to Eng 5-1-80	N/A	N/A	N/A	N/A	N/A	N/A	N/A
						** Voided by DAR 029, Rev. 1 which incorporates with 2 other items.					
29	T. Boss 5-15-80	Motor Control Centers	SP 557 0 24	Christiansen D. Green 5-23-80	Edelman 5-28-80	N/A	5-28-80	N/A	6-27-80	N/A	17(80) N/A

INFORMATION ONLY

DEVIATION ANALYSIS REPORT LOG

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AR NO.	ORIGINATED BY/DATE	DESCRIPTION RESP. ORGANIZATION	SYST/ SPEC	ENG. EVAL. BY/DATE	QA EVAL BY/DATE	REPORTABLE		WRITTEN REPORT DUE DATE	WITHDRAW BY/DATE	10CFR50.55(e) REPORT NO. (DEFICIENCY)	10CFR21 REPORT NO. (DEFECT/ NONCOMPLIANCE)
						NO	YES (DATE REPORTED)				
							10.55(e) 10CFR21				
21	T. Thompson 11-26-79	Class IE 480V. Load Center (ITE Gould)	SP553 R-23 syst.	Green 1-9-80 Barkley 1-11-80	Edelman 1-22-80	✓	N/A N/A	N/A	N/A	N/A	N/A
22	T. Swansiger 2-12-80	90°, 270°, Miscellaneous Pipe Whip Restraints Unit 1 (NNIC)	SP 669 syst. N/A	T. Keaveney 3-27-80 Barkley 5-2-80	Edelman 5-5-80	✓	N/A N/A	N/A	N/A	N/A	N/A
23	T. Swansiger 2-12-80	Recirc. Pump Motor Supports RH Section Rupture Restraints + 37°, 323° + Misc. Pipe Whip Restraints (Unit 2) (NNIC)	SP 669 B33 E12 syst.	Barkley 4-3-80	Edelman 5-1-80	✓	N/A N/A	N/A	N/A	N/A	N/A
24	T. Thompson 3-24-80	Lamination Identified in A36 Gusset Plate Hanger Steel Material (LKC)	SP 33 R33 syst	Shollenbayer Pech 4-22-80 Barkley 12-19-80	Edelman 12-19-80	N/A	Potential 12-19-80	N/A	1-18-8	14(80)	N/A
25	P. Kelly 4-18-80	Post-LOCA H ₂ Analyzes	SP 611 M-51 syst	Barkley 4-22-80	Edelman 4-22-80	N/A	to J. Hughes 4-22-80 Potential to Region III 4-29-80	N/A	5-29-80	15(80)	N/A

INFORMATION ONLY

DEVIATION ANALYSIS REPORT LOG

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						NG	YES (DATE REPORTED)					
							10.55(e)					10CFR21
16	T. Boss 10-3-79	Splitting of Rock- bestos Cable Jacket	SP 560 R-32 Syst.	Barkley 10-3-79	Edelman 10-3-79	N/A	Potential 10-3-79	N/A	11-2-79	N/A	11(79)	N/A
17	T. Boss 10-5-79	Anchor Bolts for Diesel Generator High Voltage Cabinets (DeLaval)	SP 562 R-43 System	Barkley 11-2-79	Edelman 11-9-79	✓	N/A	N/A	N/A	N/A	N/A	N/A
18	T. Swansiger 10-4-79	Procurement + Instal- lation of the N64 System (Off gas) (PPP)	SP 45 SP 35D N64 System	Barkley 11-29-79	Edelman 11-30-79	✓	N/A	N/A	N/A	N/A	N/A	N/A
19	C.W. Hunter 10-23-79	CLASS IE 4.16 KV Switchgear (ITE Corp.)	SP 552 R-22 Syst.	Barkley 10-24-79	Edelman 10-23-79	N/A	Potential 10-23-79	N/A	11-22-79	N/A	12(79)	N/A
20	J. Bahleda 12-4-79	Omission of Class "B" Fill Waterstops	SP 93 Syst. 11/1	Barkley 12-5-79	Edelman 12-6-79	N/A	Potential 12-6-79	N/A	1-5-80	N/A	13(80)	N/A

INFORMATION ONLY

DEVIATION ANALYSIS REPORT LOG

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						NO	YES (DATE REPORTED)					
												10.55(e)
11	T Arney 1-5-79	Quality Assurance Program Breakdown Regarding Control of S+M Sub Contractor Halvorsen (S+M)	SP29 syst. N/A	N/A	Edelman 1-12-79	N/A	Potential 1-12-79	N/A	2-11-79	N/A	07(79)	N/A
12	T. Boss	Rockbestos Cable Jacket (Rockbestos)	SP 560 R-32 Syst.	Barkley 7-17-79	Edelman 7-20-79	N/A	Potential 6-27-79	N/A	7-27-79	N/A	08(79)	N/A
13	J. Connelly 5-29-79	Inadequate Compaction of Class "A" Backfill and Settling of Individual Pipes of P45 System (GLC)	P45 SP93	Lastovka 6-29-79	Edelman 7-3-79	N/A	Potential 6-27-79	N/A	7-27-79	N/A	09(79)	N/A
14	W. Kacer J. Connelly J. Bahleda 6-20-79	Formwork Collapse Under Radwaste Bldg. Roof Slab Placement	syst N/A	N/A	Kacer 7-10-79	✓	N/A	N/A	N/A	N/A	N/A	N/A
15	L. Hartline 8-30-79	Natural Gas Pipeline Break Analysis	syst. N/A	Barkley 9-6-79	Edelman	N/A	Potential 9-7-79	N/A	10-7-79	N/A	10(79)	N/A

INFORMATION ONLY

DEVIATION ANALYSIS REPORT LOG

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						YES (DATE REPORTED)					
						10.55(e)	10CFR21				
6 R. Schwenker 10-6-77	G.E. Safety Relief Valve Control System (G.E.)	SP301 B21 Syst	Putre 10-7-77	Schwenker 10-6-77 Gerber Roberts 10-14-77	N/A	10-6-77	N/A	11-5-77	N/A	04 (77)	N/A
7 L. Hartline 11-18-77	Off-Shore Shaft Liner #9733 (S&H)	SP29 Syst N/A	Corensek 11-30-77	Hartline 11-18-77	✓	N/A	N/A	N/A	N/A	N/A	N/A
8 Hartline 2-3-78	Nonconforming Safety Related Embedments and Structural Steel (PBI)	SP667 Syst N/A	N/A	Schwenker 2-4-78	N/A	2-4-78	N/A	3-6-78	N/A	05 (78)	N/A
9 T. Arney 2-7-79	AC Yoke MT Inspection (NWIC)	SP17/ 53/ 96 Syst. N/A	N/A	Edelman 2-28-79	✓	Potential 2-28-79	N/A	3-30-79	Edelman 3-28-79	N/A	N/A
						Reviewed by K.D. Ward, no further questions Ref IE Report		50-440/83-02, 50-441/83-02 - dated 3/9/83			
0 T. Swansiger 4-26-79	Unit #1 Zero Degree Pipe Whip Structural	SP669 Syst.	B Bartley 5-7-79 7-11-79	Edelman 7-17-79	N/A	Potential 5-10-79 Formal	N/A	6-9-79 MKC 7-27-79	N/A	06 (79)	N/A

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						NO.	YES (DATE REPORTED)					
							10.55(e)					10CFR21
1	L. Beck 8-25-75	Geologic Anomaly in PNPP foundation Material (CEI)	N/A Syst N/A	Gustafson Beck 8-25-75	N/A	✓	N/A	N/A	N/A	N/A	N/A	
2	J. Marjemin 10-6-75	Extra Hole in the RPV Bottom Head (Unit #1) (GE/CBI)	B-13 Syst	N/A	Marjemin 10-6-75	N/A	10-6-75	N/A	11-5-75	N/A	01 (75)	N/A
3	P. Gibson 7-8-76	Porous Concrete Under Drain/Pressure Relief System (Silt intrusion of:) (Blount Bros.)	SP82 Syst N/A	N/A	Marjemin 7-8-76	N/A	7-8-76	N/A	8-7-76	N/A	02 (76)	N/A
4	D. Hiller 6-28-77	Nonconforming Safety Related Steel Embedments (Did not meet ASTM-A36 Requirements) (PBI)	SP667 Syst N/A	N/A	Narducci 6-29-77 Keaveny 7-1-77	N/A	6-29-77	N/A	7-28-77	N/A	03 (77)	N/A
5	L. Hartline 9-29-77	Flyash Concrete	SP14 Syst	Gustafson Kaplan 10-17-77	Connelly 10-13-77	✓	N/A	N/A	N/A	N/A	N/A	N/A

(NOTE: Reference November 1975 Supplement 3 to SER.)

PNPP No. 5656

PNPP REPORTABLE DEFICIENCY CONTROL LOG
 [REPORTS PURSUANT TO 10CFR50.55(e)]

INFORMATION ONLY

PNPP-RD NO.	INTERIM REPORT DATE	DESCRIPTION	FINAL REPORT DUE BY DATE	FINAL REPORT DATE	DATE OF NRC ACKNOWLEDGMENT	NRC CLOSE OUT REPORT NO./DATE	COMMENTS
61(82)	9-17-82 > 2 nd interim due 10-29-82 11-5-82	Contact Leads on HMA Relays // G.E.	10-29-82				Ref: DAR 105
62(82)	9-17-82 > 2 nd interim due 10-29-82 2 nd interim extended per letter dated	Calibration of Wipe Settings on HFA Relays // G.E.	10-29-82				Ref: DAR 106
63(82)	12/22/82	Potential Defect Concerning IEEE 363 Failure in certain Class 1E circuit Transamerica Delcral	3/30/83 - 9/30/83 extended per letter dated 3-30-83				Ref: DAR 109
64(83)	1/26/83	Pipe Whip Restraint Bracket Welds for B21/B33 Systems	4/15/83				Ref: DAR 111
65(83)	3/9/83	Potential Breach of Seal Integrity of Hydrogen Separator (Power Systems Div.)	4/29/83				Ref: DAR 115

PNPP REPORTS PURSUANT TO 10 CFR 50.55(e)
 PNPP REPORTABLE DEFICIENCY CONTROL LOG

INFORMATION ONLY

P-RD NO.	INTERIM REPORT DATE	DESCRIPTION	FINAL REPORT DUE BY DATE	FINAL REPORT DATE	DATE OF NRC ACKNOWLEDGEMENT	NRC CLOSE OUT REPORT NO./DATE	COMMENTS
4(82)	N/A	Improper Coils installed in Motor Control Centers	N/A	5/28/82		Completion submitted for 11/1/82	Ref DAR 95
55(82)	N/A	Improper nut/gland assembly for one MCC	N/A	5-28-82		Completion submitted for 11/1/82	Ref DAR 96
56(82)	5/28/82	Cable and Conduit Support Welding Deficiencies	3-31-83	3-31-83		Completion submitted for 9-15-83	Ref DAR 94
57(82)	N/A	Stand-by Diesel Generator System (Capscrew Length/Starting Air Valve Assembly)	N/A	6-28-82		Completion submitted (cont. 1-8-1-83 cont. 2-12-1-83)	Ref DAR 99 Completion commitment extended per letter dated 4-1-83.
58(82)	N/A	Bettis Model T3 Series Actuator Yokes	N/A	8-5-82			Ref DAR 100 Extended to 6/30/83 per letter dated 12/10/82
59(82)	N/A	Governor Drive Coupling (Deficiency)	N/A	8-26-82			Ref DAR 101

PNPP REPORTS PURSUANT TO 10CFR 50.55(e)
 PNPP REPORTABLE DEFICIENCY CONTROL LOG

INFORMATION ONLY

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48(82)	3-25-82	Safety Related Valve Identification and Traceability	7-30-82 Extended to 10-31-82	10-29-82		50-440/83-02 50-441/83-02 3/9/83	Ref DAR 84
49(82)	4-8-82	Reactor Pressure Vessel Water Level Transmitters (GE)	5-1-83				Ref DAR 86
50(82)	N/A	Socket Welds of Unequal Leg Fillet (CH)	N/A	4-15-82		50-440/81-11; 50-441/81-10 SIC - should be 50-440/82-11; 50-441/82-10 9-22-82	Ref DAR 91
51(82)	4/23/82	Suppression Pool floor Plate Welding Deficiencies (UNICO)	1/14/83	1-14-83		Ref: 11/11/82 1/14/83	Ref DAR 90 clarification letter dated 2/1/83, Reviewed IE Rept. 50-440/83-02; 50-441/83-02
52(82)	4/28/82	Standby Diesel Generator ASME Code Piping Welds	10-1-82	9-24-82		Completed (corrected) 7-1-83	Ref DAR 89 Completion commitment extended per letter dated 4-1-83
53(82)	^{1st} 5-3-82 Next due 8/31/82 ^{2nd} 8-31-82	Rejection of Previously Accepted Containment Vessel	3-31-83 Due date for final extended to 5-31-83 per letter dated 4-21-82				Ref DAR 92 Reviewed IE Rept 50-440/83-02; 50-441/83-02 dated 3-9-83

PNPP REPORTS PURSUANT TO 10 CFR 55.55(e)
 PNPP REPORTABLE DEFICIENCY CONTROL LOG

INFORMATION ONLY

PNPP-RD NO.	INTERIM REPORT DATE	DESCRIPTION	FINAL REPORT DUE BY DATE	FINAL REPORT DATE	DATE OF NRC ACKNOWLEDGEMENT	NRC CLOSE OUT REPORT NO./DATE	COMMENTS
37(81)	10-16-81 2nd Interim 11-30-81	Cable Tray Splice Bolts	Next Interim or Final 11-30-81 Final ^{check} 1-15-82	1-15-82		NA 02/23/81	Ref DAR 68
38(81)	10-22-81	Stainless Steel Spool Pieces/Three Sensitized Stainless Steel Pipe Spools	1-15-82 extended to 5-4-82	5-4-82		50-440/82-10 50-441/82-09 9-17-82	Ref DAR 66
39(81)	11-12-81	Limitorsque - Potential failure of Limitorsque Hoop operators Motor Pinion keys	2-26-82	2-26-82 Correction mailed 4/23/82		Ref open Item 440/ 81-17-01	Ref DAR 67 Withdrawn - Entry crossed out by MK Combs 10/22/81 Ref DAR 71
40(81)	12-11-81	Polar Crane Girder (weld deficiencies)	3-31-82	3-31-82		50-440/83-02 50-441/83-02 3/9/83	Ref DAR 73 (NN/CO 10CFR21)
41(81)	12-11-81	Unib 1 Suppression Pool Chad Floor Plate Installation Activities (NN/CO)	6-30-82	6-30-82		50-440/83-02 50-441/83-02 3/9/83	Ref DAR 72

PNPP REPORTS PURSUANT TO 10CFR50.55(e)
 PNPP REPORTABLE DEFICIENCY CONTROL LOG

INFORMATION ONLY

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1(81)	7-22-81	Buffalo Forge Missile Penetration Analysis for Safety Class Axial-Flow Fans	10-31-81	10-29-81		NR 0790-53	Reference DAR 59
2(81)	7-24-81	Bailey 720 Utility Stations	5-1-83				Reference DAR 60
3(81)	7-24-81	CR 2940 Tandem Block Switches! General Electric	5-1-83	1-27-83			Reference DAR 61
4(81)	8-14-81 <u>2nd</u> 12-18-81	Biological Shield Walls Heavy Density Concrete; Units 1 & 2	12-18-81 extended to 6-4-82	6/7/82		Completion Certified for 5-1-83 Unit 1 7-1-83 Unit 2	Reference DAR 62 Unit 1 completion extended to 5/1/83 per letter dated 12/10/82.
5(81)	9-18-81	Rockbestos Coaxial Cable, Series RSS-6-100 through RSS-6-112	1-22-82	1-20-82		NR 70033-0017	Reference DAR 063
6(81)	9-30-81	Possible Minimum Wall Violation of Installed Pipe Smpls	1-11-82 mailed 1-18-82 OK per	1-18-82		50-440/83-02 50-441/83-02 3/9/83	Reference DAR 064

PNPP REPORTS PURSUANT TO 10C.F.R. 50.55(e)
 PNPP REPORTABLE DEFICIENCY CONTROL LOG

INFORMATION ONLY
 THIS IS NOT A REPORT

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5(81)	2-19-81	Breakdown in Quality Program of Protective Coatings Contractor	5-1-81	5-1-81		50-440/81-11; 50-441/81-11 8-3-81	Reference DAR 45
6(81)	① 2-11-81 ② 8-28-81 ③ 10-29-82	NAMCO Controls Limit Switches	8-29-81 extended to 10-29-82 extended 9-3-83				Reference DAR 46 Rev 1
7(81)	N/A	Anchor and Barrier Plate Material on Some Safety Related Penetrations	N/A	5-5-81		50-440/81-11 50-441/81-10 (SIC) Should be 50-440/82-11, 50-441/82-10 9-22-82	Reference DAR 47
8(81)	6-29-81	Crack in Concrete Wall/Slab	10-1-81	10-1-81		Ready for NRC Review	Reference DAR 52
9(81)	6-29-81	CRD Piping Socket Welds	9-1-81 extended to 12/7/81	6-3-82		50-440/81-11 50-441/81-10 SIC - Should be 50-440/82-11; 50-441/82-10 9-22-82	Reference DAR 57
10(81)	N/A	R 44 System - Receiver Tank Spinning	N/A	7-13-81 Raised Final 11-15-82		For IC Repub- lished. Review open until 11/15/82	Reference DAR 56

Approved T.C. Pennant 10/14/82

INFORMATION ONLY

P-RD NO.	INTERIM REPORT DATE	DESCRIPTION	FINAL REPORT DUE BY DATE	FINAL REPORT DATE	DATE OF NRC ACKNOWLEDGEMENT	NRC CLOSE OUT REPORT NO./DATE	COMMENTS
1(80)	11-12-80	Problem w/Stainless Steel Cladding Inside Containment ④ Extended to 3-15-82	3-1-81 Extended to 6-1-81 Extended to 12-15-81	3-15-82		50-440/82-17 50-441/82-16 1/20/83	Reference DAR 37 Final revised 5/3/82 Final revised 11/24/82 Reviewed 16 Rept 50-440/83-02; 50-441/83-02
2(80)	11-3-80	Standby Diesel Generator Model DSIR V16 // Potential Link Rod Deficiency	12-1-81 extended to 6-1-82 extended to 12-10-82	12/10/82		50-440/83-02 50-441/83-02 3/9/83	Reference DAR 38 *Not reportable ab PNPP.
3(80)	11-6-80 12-19-80	Qualification Testing of Hilti-Kwik Bolts	5-15-81	5-14-81			Reference DAR 39
4(80)	12-3-80	Fuel Pool Penetration Piping (G 41 Supt.) Degredation	3-1-81 extended to 7-1-81	6-29-81		50-440/83-02 50-441/83-02 3/9/83	Reference DAR 41
5(81)	1-14-81	RPS Flexible Conduit Grounding in PGCC Installation	7-1-81 Extended to 10-30-81	10-29-81			Reference DAR 43
6(81)	1-27-81	Standby Diesel Generator Model DSIR V16 // Turbogenerator Link Rod Deficiency	10-81 Extended to 4-15-82	4-15-82		50-440/83-02 50-441/83-02 3/9/83	Reference DAR 44 Extension letter mailed 1/6/83

PNPP REPORTS PURSUANT TO 10 CFR 50.55(e)
 PNPP REPORTABLE DEFICIENCY CONTROL LOG

INFORMATION ONLY

P-RD NO.	INTERIM REPORT DATE	DESCRIPTION	FINAL REPORT DUE BY DATE	FINAL REPORT DATE	DATE OF NRC ACKNOWLEDGEMENT	NRC CLOSE OUT REPORT NO./DATE	COMMENTS
(80)	1-7-80	Omission of Class "B" Fill Waterstops	2-29-80	2-29-80	3-17-80 1-25-80 2-11-80		Reference DAR 20
(80)	1-15-81	Lamination Identified in A36 Gusset Plate Hanger Steel Material	3-2-81	3-2-81		50-440/81-06; 50-441/81-06 4-14-81	Reference also DAR 034 Reference DAR 24
(80)	5-22-80	Post-LOCA H ₂ Analyzers	8-29-80	8-26-80	9-8-80	50-440/81-11; 50-441/81-11 dated 8/3/81	Reference DAR 25
(80)	N/A	Model 510 DU Trip Calibration Units/1152 Pressure Transmitters	N/A	6-30-80	7-14-80	50-440/81-11 50-441/81-11 dated 8/3/81	Reference DAR 27
(80)	6-25-80	Class 1E Motor Control Centers	9-30-80	9-29-80 Revised Final report 3-9-81 1-18-83	10-17-80	Lowricord Requesting Status	Reference DAR 29, Rev.1 Completion extension 440M-27-81 to 8-1-81 to 12-1-81 // to NR completion 10-9-15-82 Reference DAR 30
(80)	7-11-80	Use of Mono-Sol brand 7-0015-3 CWS Polyvinyl Alcohol Film, Water Soluble Purge Dam Material	12-15-80 Extended to 2/1/81 per letter 12-4-80 Extended to 8/3/81 per letter 1/30/81	8/3/81		Raw to final pending	

INFORMATION ONLY

PP-RD NO.	INTERIM REPORT DATE	DESCRIPTION	FINAL REPORT DUE BY DATE	FINAL REPORT DATE	DATE OF NRC ACKNOWLEDGEMENT	NRC CLOSE OUT REPORT NO./DATE	COMMENTS
7(79)	2-12-79	S+M Constructors, Inc.'s QA Program Breakdown Regarding Control of S+M Subcontractor: The Halvorsen Boiler + Engineering Company.	6-1-79 Extension req. 5-29-79 to 8-31-79 Extension req. 8-29-79 to 12-15-79	12-7-79	12-19-79 3-1-79 6-13-79	50-440/80-09; 50-441/80-09 6-26-80	Reference DAR 11
3(79)	7-18-79	Eccentric Jacket on Class IE Small Power and Control Cable	9-28-79 Extension req. 9-28-79	11-9-79	12-6-79 10-14-79 11/14/82 8-13-79	50-440/80-06; 50-441/80-06 5-21-80	Reference DAR 12
3(79)	7-25-79	Inadequate Compaction of Class "A" Backfill and Settling of Individual Pipes of P45 System	12-20-79	12-20-79	1-9-80 10-3-79	50-440/81-11; 50-441/81-11 dated 8/3/81	Reference DAR 13
(79)	10-3-79	Natural Gas Pipeline Break Analysis		1-30-80	2-20-80 10-18-79	Letter dated 2-20-80 states closed at Region III + Refd. to NRC Hdqtrs.	Reference DAR 15
(79)	10-31-79	Slit Jacket on Class IE Small Power and Control Cable	12-21-79	12-19-79	1-11-80 10-27-79	50-440/80-06; 50-441/80-06 5-21-80	Reference DAR 16
(79)	11-23-79	Class IE 4.16 KV Switchgear	4-15-80	4-9-80	5-5-80 12-17-79	50-440/81-02; 50-441/81-02 2-11-81	Reference DAR 19

INFORMATION ONLY

VPP-RD NO.	INTERIM REPORT DATE	DESCRIPTION	FINAL REPORT DUE BY DATE	FINAL REPORT DATE	DATE OF NRC ACKNOWLEDGEMENT	NRC CLOSE OUT REPORT NO./DATE	COMMENTS
01(75)	11-5-75	Extra Hole in the RPU Bottom Head (Unit #1)	8-1-77 Extension req. 7-29-77 by Gerber/Putre to 9-1-77	8-31-77	9-15-77	50-440/78-01 2-15-78	Reference DAR 02
02(76)	7-19-76	Porous Concrete Under Drain/Pressure Relief System	Mid September, 1976	9-2-76	9-16-76	50-440/76-05; 50-441/76-06 9-27-76	Reference DAR 03
03(77)	7-29-77	Nonconforming Safety Related Steel Embedments (ASTM-A36)	Upon implementation of Corrective Action Plan	8-7-78	8-17-78	50-440/78-12; 50-441/78-11 10-3-78	Reference DAR 04
04(77)	11-2-77	G.E. Safety Relief Valve Control System	After receipt of GE final Report-12/77 Extension req. by Gerber on 1-3-78 to receipt of GESSAR Amend.	4-3-81	pending	pending	Reference DAR 06 completion of modification committed 5-1-83.
05(78)	3-6-78	Nonconforming Safety Related Embedments and Structural Steel	Upon full implementation of Corrective Action	12-1-78	3-17-78 1-11-79	50-440/79-05; 50-441/79-05 6-19-79	Reference DAR 08
06(79)	N/A	Unit #1 Zero Degree Pipe Whip Restraint Structure	N/A	7-23-79	8-13-79	50-440/79-10; 50-441/79-10 11-21-79	Reference DAR 10



W

MURRAY R. EDELMAN
VICE PRESIDENT
NUCLEAR

April 15, 1983

Mr. R. L. Spessard, Director
Division of Engineering
U.S. Nuclear Regulatory Commission, Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

RE: Perry Nuclear Power Plant
Docket Nos. 50-440; 50-441
Response to I.E. Report

Dear Mr. Spessard:

This letter is to acknowledge receipt of Inspection Report Number 50-440/83-06; 50-441/83-06, attached to your letter dated March 16, 1983. This report identifies areas examined by Messrs. P. A. Barrett, K. R. Naidu and P. R. Pelke during their inspection conducted February 8-11, 1983.

Attached to this letter is our response to the three Violations described in the referenced Notice of Violation, dated March 16, 1983. This response is in accordance with the provisions of Section 2.201 of the NRC's "Rules of Practice", Part 2, Title 10, Code of Federal Regulations.

Our response has been submitted to you within thirty days of the date of the Notice of Violation as you required. If there are additional questions, please do not hesitate to call.

Very truly yours,

M. R. Edelman
Vice President
Nuclear Group

MRE:pab
Attachment

cc: Mr. M. L. Gildner
USNRC, Site

Mr. C. E. Norelius, Director
Division of Projects and Resident Programs
U.S. Nuclear Regulatory Commission, Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

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

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RESPONSE TO ENFORCEMENT ITEMS

Below is our response to Appendix A, Notice of Violation, of United States Nuclear Regulatory Commission I.E. Report 50-440/83-06; 50-441/83-06.

Noncompliance I. (440/83-06-01; 441/83-06-01)

A. Severity Level IV Violation

10CFR50, Appendix B, Criterion II states, in part, "The quality assurance program shall provide control over activities affecting the quality of the identified structures, systems, and components, to an extent consistent with their importance to safety."

CEI Corporate Nuclear Quality Assurance Program, Section 0200, Revision 4, paragraph 1.1 states in part, "The program provides for accomplishing activities affecting safety under suitably controlled conditions and in accordance with the program elements of procedures, instructions, specifications, and drawings."

Contrary to the above, the L. K. Comstock QA Program failed to provide control over deficiencies identified by an internal LKC documentation task force, in that these deficiencies were addressed in uncontrolled review checklists and internal LKC letters.

B. Response

1. Corrective Actions Taken and Results Achieved

L. K. Comstock has written a QC Inspection Report for each of the concerns identified during the LKC Task Force document review. This will provide for status tracking of each concern until it is fully addressed and closed out.

As identified above, the LKC Task Force generated checklists for each document package as they performed their review to detail their comments. These checklists have been procedurally addressed within the LKC QA program to ensure that each specific item is tracked and resolved prior to turnover.

Along with the contractor's actions, the Cleveland Electric Illuminating Co. (CEI) has developed a Special Project Plan in accordance with the requirements of our "Project Administration Procedures," that defines the actions necessary to resolve the task force issue.

As a part of this program, all of the "task force" concerns have been addressed on Project Organization Surveillance Inspection Reports (SIR's). This duplicates the LKC tracking of these items. The SIR's are assigned to individuals within the Construction Quality Section. This enables CEI to monitor, provide follow-up, and ensure resolution of each item.

2. Corrective Action Taken to Avoid Further Noncompliance

In light of this NRC concern, the PNPP Nuclear Quality Assurance Department Manager re-emphasized to L. K. Comstock by written memorandum that all quality issues shall be processed in strict accordance with the Project approved LKC QA program. On a Project level, this message was additionally directed to all site contractors performing safety-related activities at Perry. In addition, the NQAD Construction Quality Section performed a review of all safety-related contractor's internal correspondence files to insure that quality issues were being processed in strict accordance with their QA programs. This review netted positive results.

In order to provide continuous monitoring of L. K. Comstock, a Project Organization QA representative has been assigned to L. K. Comstock on a full time basis. This individual will monitor all LKC inspection reports and provide a continuing review of documentation packages that are in process to ensure that the Task Force items are being properly addressed.

3. Date When Full Compliance Will Be Achieved

The concerns and individual checklist items noted by the LKC task force have been addressed on QA program documents. Therefore, full compliance has been achieved.

Noncompliance II. (440/83-06-06; 441/83-06-06)

A. Severity Level V Violation

10CFR50, Appendix B, Criterion III, states in part, "The design control measures shall provide for verifying or checking the adequacy of design, such as by the performance of design reviews...performed by individuals or groups other than those who performed the original design...."

CEI Corporate Quality Assurance Program Section 0300 states in part, "CEI performs a design coordination function consisting of selected reviews and design control monitoring program.... These procedures shall assure... "Design activities are conducted in a planned and systematic manner... Perry Safety Analysis Report requirements have been appropriately addressed in design documents...Design requirements can be controlled and inspected and/or tested to specified acceptance criteria."

Contrary to the above, CEI failed to assure that Gilbert Associates Inc. (GAI) adequately reviewed and verified that the requirements of Westinghouse Electric Corporation drawing E-40048 for medium voltage penetrations and electrical specification SP-33 were adequately translated into the isometric drawings 1R-72-3 and 1R-72-4 prepared by Pullman Power Products. Specifically, drawings 1R-72-3 and 1R-72-4 were approved by GAI, without the consumable insert specified on drawing E-40048 and the backing ring specified in paragraph 5:08.1.4C of specification SP-33. Consequently, the medium voltage penetrations were welded in Unit 1 without the benefit of either a consumable insert or a backing ring. Furthermore, there was no assurance that this discrepancy would have been corrected during the installation of medium voltage penetrations in Unit 2.

B. Response

1. Corrective Action Taken and Results Achieved

L. K. Comstock issued Stop Work Notice #11 on the installation of the medium voltage penetrations. The discrepant welding conditions that exist on the Unit 1 medium voltage penetrations have been documented on Nonconformance Report LKC 1769. The nonconformance report has since been dispositioned, accepted, and verified.

2. Corrective Action Taken To Avoid Further Noncompliance

The Construction Quality Section issued Observation Action Request #605 to Gilbert Associates for inadequately reviewing the Pullman Power Products isometric drawings for the medium voltage penetrations. As a result, the Unit 2 penetration drawings will be revised to reflect the specification requirements and GAI personnel have been alerted to assure that drawings are reviewed to the specification governing the work.

To ensure compliance, an owner hold point has been established on the welding of the Unit 2 medium voltage penetrations.

3. Date When Full Compliance Will Be Achieved

Drawing revisions will be completed by May 20, 1983, and full compliance will then be achieved.

Noncompliance III. (440/83-06-03; 441/83-06-03)

A. Severity Level IV Violation

10CFR50, Appendix B, Criterion X states in part, "A program for inspection of activities affecting quality shall be established and executed by or for the organization performing the activity to verify conformance with the documented instructions, procedures, and drawings for accomplishing the activity."

CEI Corporate Nuclear Quality Assurance Program, Section 1000, Revision 3, paragraph 1.1 states in part, "A program for inspection shall be established by CEI to ensure that all safety-related components, systems, structures, and activities affecting those items meet the required quality standards."

Contrary to the above, a program for the inspection of in-process fillet weld activities performed by L. K. Comstock Company had not been established or executed to verify conformance with standard AWS-D1.1 1975, Section 6.

B. Response

1. Corrective Action Taken and Results Achieved

The immediate corrective action taken by L. K. Comstock was to issue Stop Work Notice #10 on all welding performed by LKC.

As a result, a program for the in-process fillet weld activities has now been established by the contractor. This was accomplished through a revision to their weld inspection procedure 4.8.18, paragraph 3.7.

To address the procedure deficiency concerning previous in-process inspections, the contractor initiated Nonconformance Report LKC 1788.

2. Corrective Action Taken to Avoid Further Noncompliance

To prevent recurrence, training was conducted to the revised LKC Weld Inspection Procedure. The procedure currently reflects the in-process weld inspection as required by AWS D1.1-1975.

3. Date When Full Compliance Will Be Achieved

Full compliance has been achieved.