



UNITED STATES
NUCLEAR REGULATORY COMMISSION
OFFICE OF INVESTIGATIONS FIELD OFFICE, REGION III
799 ROOSEVELT ROAD
GLEN ELLYN, ILLINOIS 60137

March 20, 1987

MEMORANDUM FOR: A. Bert Davis, Acting Administrator
Region III

FROM: Eugene T. Pawlik, Director
Office of Investigations Field Office, Region III

SUBJECT: ADMINISTRATIVE CLOSURE OF CASE NO. 83-82-057;
MIDLAND NUCLEAR POWER PLANT - ALLEGED IMPROPER
TERMINATION BY ZACK COMPANY OF TWO QUALITY
ASSURANCE EMPLOYEES FOR REPORTING DEFICIENCIES

E. T. Pawlik

Office of Investigations (OI) procedures call for periodic review of cases within its inventory to identify those warranting administrative closure. Although this case warrants investigation from a potential wrongdoing violation perspective, consultation with the RIII staff reveals that the technical regulatory impact has been alleviated. In accordance with the Commission approved policy described in SECY 85-369, this case is being administratively closed by OI due to a lack of OI investigator resources. We are forwarding it for your further review and whatever action you deem appropriate through the normal inspection program. Should you decide to pursue this matter, both SECY-85-369 and Commission Policy require that any information developed by your staff indicative of deliberate violations of NRC requirements, or other matters potentially warranting referral to the Department of Justice or other law enforcement or prosecutive agencies, be brought to the attention of OI.

Enclosure: As stated

cc w/encl:
J. Sinclair, OI
✓ J. Galton, OI
J. Middle, OI

B/10
✓

9203100303 910827
PDR FOIA PDR
ZACK91-187

Release

March 20, 1987

MEMORANDUM FOR: A. Bert Davis, Acting Administrator
Region III

FROM: Eugene T. Pawlik, Director
Office of Investigations Field Office, Region III

SUBJECT: ADMINISTRATIVE CLOSURE OF CASE NO. Q3-82-057:
MIDLAND NUCLEAR POWER PLANT - ALLEGED IMPROPER
TERMINATION BY ZACK COMPANY OF TWO QUALITY
ASSURANCE EMPLOYEES FOR REPORTING DEFICIENCIES

Office of Investigations (OI) procedures call for periodic review of cases within its inventory to identify those warranting administrative closure. Although this case warrants investigation from a potential wrongdoing violation perspective, consultation with the RIII staff reveals that the technical regulatory impact has been alleviated. In accordance with the Commission approved policy described in SECY 85-369, this case is being administratively closed by OI due to a lack of OI investigator resources. We are forwarding it for your further review and whatever action you deem appropriate through the normal inspection program. Should you decide to pursue this matter, both SECY-85-369 and Commission Policy require that any information developed by your staff indicative of deliberate violations of NRC requirements, or other matters potentially warranting referral to the Department of Justice or other law enforcement or prosecutive agencies, be brought to the attention of OI.

Enclosure: As stated

cc w/encl:
J. Sinclair, OI
L. Gallop, OI

Distribution:

c/f
✓/TF Q3-82-057

OI RCP
RPaul:nh
03/20/87

OI
EPawlik
03/20/87

Release

B/11

Title: MIDLAND NUCLEAR POWER PLANT

ALLEGED IMPROPER TERMINATION BY ZACK COMPANY OF TWO QUALITY ASSURANCE EMPLOYEES FOR REPORTING DEFICIENCIES

Licensee:

Consumers Power Company
1945 West Parnall Road
Jackson, MI 49201

Docket No. 50-329; 50-330

Reported by:

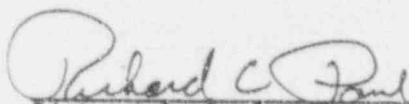
Case Number: Q3-82-057

Report Date: March 20, 1987

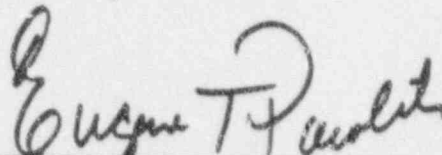
Control Office: OI:RIII

Status: Closed Inquiry

Approved by:



Richard C. Paul
Investigator
Office of Investigations
Field Office, Region III



Eugene T. Pawlik
Director
Office of Investigations
Field Office, Region III

DETAILS OF INQUIRY

Purpose of Inquiry

This case was initiated as an investigation on August 23, 1982, at the request of A. B. Davis, Deputy Administrator, Region III (RIII), to determine the reason for discharge of two Zack Company quality assurance document control employees. The two Zack employees were allegedly discharged after reporting deficiencies to the NRC.

Background

This case was initially opened as an investigation. Field work had been undertaken and was later suspended due to other investigative priorities.

Closure Information

Although this case warrants investigation from a potential wrongdoing perspective, consultation with the RIII staff reveals that the technical regulatory impact has been alleviated. In accordance with the Commission approved policy described in SECY 85-309, this case is being administratively closed by OI due to a lack of OI investigator resources.

AUGUST 28, 1961
7220-M-151-C/E-538

Bechtel Power Corporation
P.O. Box 2167,
Midland, Michigan 48640

Attn: Mr. I.E. Davis
Site Manager

Re: Consumers Power Company
Midland Power Station
7220-M-151

Gentlemen;

During a recent Quality Assurance review of the certifications for the Midland Project HVAC materials, a number of inconsistencies were determined. These inconsistencies were discussed with Mr. H. Leonard, Manager of Q.A. for MPQAD and verified to also exist in the copies on site. These inconsistencies have been identified and categorized into the following four areas:

1. Material certifications with incomplete information.
2. Material certifications with technical inaccuracies.
3. Material certifications with possible unauthorized and improper modifications.
4. Possible person/persons improperly modifying material certifications.

While The Zack Company has not yet completed it's investigation as to the extent and validity of the above mentioned inconsistencies, it did feel that the indications were of enough substance that The Zack Company may need to solicit Bechtel Corporations assistance and participation, if these inconsistencies are determined to be deficiencies, in the evaluation and determination of a possible 10CFR50.55(e) reportable defect.

Attached is the Corrective Action Request generated by The Zack Company Quality Assurance Department, which identifies the problem, contains a plan of action to determine the extent of the problem and the time frame for it to be completed. Upon completion of this activity and evaluation of the information gathered, a recommended corrective action will be determined.

At the present time The Zack Company does not feel any additional action by Bechtel Corporation or by Consumers Power Company is required. This position is based upon the following considerations:

- FOUNDED TO SOLVE THE UNIQUE METAL FABRICATION NEEDS OF INDUSTRY.
- DEDICATED TO CLEANING AND CUSTOMIZING THE ART OF THE FABRICATOR.

Release

B/D

1. Many of the errors and/or inconsistencies may be only clerical oversights.
2. Recent corrected certifications being received are completely acceptable.
3. Fabrication and erection operations of forming, welding galvanizing, etc. have not indicated any problems which would indicate that the material has any significantly different properties.
4. The inherent design conservatisms may be able to accept any minor discrepancies.
5. The limited number (19) of affected material certifications identified to date.

The Zack Company will keep Bechtel Power Corporation fully informed of developments as they occur and will discuss all results and evaluations prior to any final reports being issued.

We thank you for your cooperation and support in this matter and should you have any questions or problems, please do not hesitate to contact us at (312) 242-3434.

Very truly yours,

David E. Calkins,
Quality Assurance Manager

DEC/br

cc: R.C. Ash, Field Contracts Admin.
H. Leonard, QA Mgr. MPOAD
C.Z. DeZutel
J.C. DeZutel
C.L. Eichstaedt, Jr.
R.B. McCarley
Files/Midland
Files/Chicago

September 25, 1981

9.

Commonwealth Edison Co.
LaSalle County Nuclear Station
Rural Route #1, Box 220,
2601 N. 21st Road,
Marseilles, IL 61341

Attn: Mr. William Donaldson
Site Mgr.

RE: LaSalle Power Station, HVAC Contract #J-2590
Commonwealth Edison Co.

Gentlemen:

During a recent Quality Assurance review of the certifications for the LaSalle Project HVAC materials, a number of inconsistencies were determined. These inconsistencies have been identified and categorized into the following four areas:

1. Material certifications with incomplete information.
2. Material certifications with technical inaccuracies.
3. Material certifications with possible unauthorized and improper modifications.
4. Possible person/persons improperly modifying material certifications.

While The Zack Company has not yet completed its investigation as to the extent and validity of the above mentioned inconsistencies, it did feel that the indications were of enough substance that The Zack Company may need to solicit Commonwealth Edison Company's assistance and participation, if these inconsistencies are determined to be deficiencies, in the evaluation and determination of a possible 10CFR50.55 (e) reportable defect.

Attached is the Corrective Action Request generated by The Zack Company Quality Assurance Department, which identifies the problem, contains a plan of action to determine the extent of the problem and the time frame for it to be completed. Upon completion of this activity and evaluation of the information gathered, a recommended corrective action will be determined.

At the present time The Zack Company does not feel any additional action by Commonwealth Edison Co. is required. This position is based upon the following considerations:

- FOUNDED TO SOLVE THE UNIQUE METAL FABRICATION NEEDS OF INDUSTRY •
- DEDICATED TO CLEANING AND CUSTOMIZING THE AIR OF THE WORLD •

- acceptance:
3. Fabrication and erection operations of forming, welding galvanizing, etc. have not indicated any problems which would indicate that the material has any significantly different properties.
 4. The inherent design conservatism may be able to accept any minor discrepancies.
 5. The limited number of affected material certifications identified to date.

The Zack Company will keep Commonwealth Edison Co. fully informed of developments as they occur and will discuss all results and evaluations prior to any final reports being issued.

We thank you for your cooperation and support in this matter and should you have any questions or problems, please do not hesitate to contact us at (312) 242-3434.

Very truly yours,

THE ZACK COMPANY

David E. Calkins

David E. Calkins,
Quality Assurance Manager

DEC/dr

cc: C.Z. DeZutol
J.C. DeZutol
C.L. Eichstuedt, Jr.
C. Baumgardner
Q.A. Files/Chicago
Q.A. Files/LaSalle

September 25, 1981
#K-2910-CZB-297

4.

Baldwin Associates
P.O. Box 306,
Clinton, IL 61727
Attn: Mr. William Harrington
Project Manager

Re: Illinois Power Co.
Clinton Power Station - HVAC/K-2910
Baldwin Associates

Gentlemen;

During a recent Quality Assurance review of the certifications for the Clinton Project HVAC materials, a number of inconsistencies were determined. These inconsistencies have been identified and categorized into the following four areas:

1. Material certifications with incomplete information.
2. Material certifications with technical inaccuracies.
3. Material certifications with possible unauthorized and improper modifications.
4. Possible person/persons improperly modifying material certifications.

While The Zack Company has not yet completed it's investigation as to the extent and validity of the above mentioned inconsistencies, it did feel that the indications were of enough substance that The Zack Company may need to solicit Sargent & Lundy's assistance and participation, if these inconsistencies are determined to be deficiencies, in the evaluation and determination of a possible 10CFR50.55(e) reportable defect.

Attached is the Corrective Action Request generated by The Zack Company Quality Assurance Department, which identifies the problem, contains a plan of action to determine the extent of the problem and the time frame for it to be completed. Upon completion of this activity and evaluation of the information gathered, a recommended corrective action will be determined.

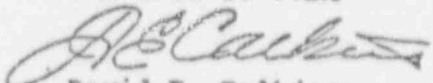
At the present time The Zack Company does not feel any additional action by Baldwin Associates is required. This position is based upon the following considerations:

1. Many of the errors and/or inconsistencies may be only clerical oversights.
2. Recent corrected certifications being received are completely acceptable.
3. Fabrication and erection operations of forming, welding galvanizing, etc. have not indicated any problems which would indicate that the material has any significantly different properties.
4. The inherent design conservatisms may be able to accept any minor discrepancies.
5. The limited number of affected material certifications identified to date.

The Zack Company will keep Baldwin Associates fully informed of developments prior to any final reports being issued.

We thank you for your cooperation and support in this matter and should you have any questions or problems, please do not hesitate to contact us at (312) 242-3434.

Very truly yours,
THE ZACK COMPANY


David E. Calkins,
Quality Assurance Manager

DEC/br

cc: C.Z. DeZutel
J.C. DeZutel
C.L. Eichstaedt, Jr.
T. Packy
B. LaRoache
G. Bennett Browne, Supt. Subcontracts (BA)
J. Smart, BA/QA
Q.A. Chicago
Q.A. - Clinton



CUSTOM METAL FABRICATION

October 9, 1981
7220-M-151-CB-548

5.

Bechtel Power Corporation
P.O. Box 2167,
Midland, MI 49640

Attn: Mr. L.E. Davis
Site Manager

RE: Documentation Discrepancies

Gentlemen:

Enclosed is an interim report on the results obtained to date in the review of the material certifications for the Midland Project.

It is important to note in reviewing this report that the deficiencies shown for each purchase order have only been recorded. This report does not address the corrective action being initiated with the suppliers to obtain corrected certifications.

At the present rate of review, it is anticipated that The Zack Company will be ready to present a final report, on or before October 26, 1981. This should allow ample time to advise the NRC that the possible 10CFR50.55 (e) should be withdrawn or to confirm its applicability.

Should you have any questions or problems concerning this report, please do not hesitate to contact me at (312) 242-3434.

Very truly yours,

THE ZACK COMPANY

David E. Calkins,
Manager Quality Assurance

DEC/br

Encl:

cc: John Rutgers, (BPCo)
Mr. Clark Ash (BPCo)
H. Leonard, MPQAD Mgr.
C.Z. DeZutel
J.C. DeZutel
C.L. Eichstaedt, Jr.
R.B. McCarley
Q.A. Files/Chicago
Q.A. Files/Midland

• FOUNDED TO SOLVE THE UNIQUE METAL FABRICATION NEEDS OF INDUSTRY •
• DEDICATED TO CLEANING AND CUSTOMER SERVICE •

TO: D. Calkins

FROM: H. McGrane

SUBJECT: Interim Report - Documentation Review results, Midland Station only,
as of October 2, 1981

SUMMARY:

The attached sheets tabulate the results of subject review. Approximately 70% of the listed (from Midland site) packages have been located and reviewed. All packages reviewed have been attached in individual binders and filed in the fire-resistant cabinets in accordance with the requirements of the Draft Work Instruction for "Control, Content, and Maintenance of Q.A. Purchase Order/Certified Material Test Report Files".

The tabulation lists "packages". The number of certifications in each package varies between one and twenty. For the purpose of categorization only the more major discrepancy in each package has been tabulated.

DISCUSSION:

The results of the reviewed have been categorized as follows:

- Clerical Errors - Lack of reference to "ASTM", revision year, or complete lack of standard designation.
- Signature Missing - Lack of written signature.
- Signature Errors - Typed signature and handwritten signature or initials not identical.
- Chem/Mech Test Data - Chemical analysis and/or mechanical test data missing, or not in accordance with ASTM Standard Requirements.
- U.S. Steel Letter - Indicates P.O.'s listed in U.S. Steel Co. letter to Zack Co. stating that material on P.O.'s were not processed thru U.S. Steel V&T program. Letter date, Sept. 21, 1981.
- Missing Certifications - Self explanatory. Certain packages lack certification for all, or for only certain items. (Majority appear to be missing Reliable Galvanizing Co. certs.)
- C of C Only - Packages containing only a Certificate of Compliance (no test data). Midland Tech. Spec. appears to require physical/chemical test data for materials not specifically listed by trade name. (Various fasteners, nuts, bolts, washers, etc.)
- Alterations - Apparent alteration of certification by typed or handwritten additions.
- Stickers - Gummed labels applied to certifications or certification cover sheets. These typed and signed to indicate compliance with ASTM Standards. Authenticity of the signatures is questionable.

the **ZACK** co.



7.

CUSTOM METAL FABRICATION

October 23, 1981
7220-M-151-C/B-552

Bechtel Power Corporation
P.O. Box 2167,
Midland, Michigan 48640

Attn: Mr. L.E. Davis
Site Manager

Ref: The Zack Company letter #7220-M-151-C/B-538, dated August 28,
1981

Subject: Potential 10CFR50.55(e)

Gentlemen:

Since the determination of the inconsistencies in the HVAC material certifications, a concentrated effort has been expended by The Zack Company to review and validate all material certifications for this project. As indicated in the above referenced letter, upon completion of this revalidation a detailed report would be forwarded for your review and any deficiencies identified would be highlighted which would require Bechtel Power Corporation's assistance and participation in the evaluation and determination of these deficiencies for a reportable 10CFR50.55(e) defect.

The Zack Company, therefore, requests that those deficiencies identified in the attached report be forwarded to Bechtel Power Corporation for their review and concurrence that a reportable defect does not exist.

It is The Zack Company's opinion that none of those identified deficiencies would have adversely affected the safety of operations of the nuclear power plant at any time throughout the expected lifetime of the plant.

The Zack Company is acutely aware of the need to fully comply with the requirements of the technical specification, the contract, the ANSI related codes and 10CFR50 Appendix "B". In consideration of this the final section of the report clearly and concisely shows the corrective action planned and taken to date.

• FOUNDED TO SOLVE THE UNIQUE METAL FABRICATION NEEDS OF INDUSTRY •
• DEDICATED TO CLEANING AND CUSTOMIZING THE AIR OF THE WORLD •

If there are any questions, additional information or concerns in regard to this report, please do not hesitate to contact either;

Mrs. Christine Zack DeZutel, President
(or) Mr. David E. Calkins, Manager Quality Assurance
at (312) 242-3434.

Very truly yours,

THE ZACK COMPANY

David E. Calkins

David E. Calkins,
Manager Quality Assurance

DEC/br

cc: Mr. John Rutgers, (BPCo)
Mr. Clark Ash, (BPCo)
Mr. Hank Leonard, (MPQAD Mgr.)
C.Z. DeZutel
J.C. DeZutel
C.L. Eichstaedt, Jr.
R.B. McCarley
Q.A. Chicago
Q.A. Midland



8.

CUSTOM METAL FABRICATION

October 23, 1981
#K-2910-ZCB-300

Baldwin Associates
P.O. Box 306,
Clinton, IL 61727

Attn: Mr. William Harrington
Project Manager

Ref: The Zack Company letter #K-2910-ZCB-297, dated September 25,
1981

Subject: Potential 10CFR50.55(e)

Gentlemen;

Since the determination of the inconsistencies in the HVAC material certifications, a concentrated effort has been expended by The Zack Company to review and validate all material certifications for this project. As indicated in the above referenced letter, upon completion of this revalidation a detailed report would be forwarded for your review and any deficiencies identified would be highlighted which would require Sargent and Lundy's assistance and participation in the evaluation and determination of these deficiencies for a reportable 10CFR50.55 (e) defect.

The Zack Company, therefore, requests that those deficiencies identified in the attached report be forwarded to Sargent and Lundy for their review and concurrence that a reportable defect does not exist.

It is The Zack Company's opinion that none of those identified deficiencies would have adversely affected the safety of operations of the nuclear power plant at anytime throughout the expected lifetime of the plant.

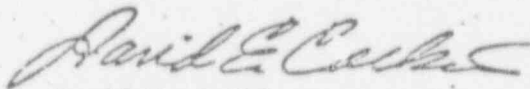
The Zack Company is acutely aware of the need to fully comply with the requirements of the technical specification, the contract, the ANSI related codes and 10CFR50 Appendix "B". In consideration of this the final section of the report clearly and concisely shows the corrective action planned and taken to date.

If there are any questions, additional information or concerns in regard to this report, please do not hesitate to contact either;

Mrs. Christine Zack DeZutel, President
(or) Mr. David E. Calkins, Manager Quality Assurance
at (312) 242-3434.

Very truly yours,

THE ZACK COMPANY



David E. Calkins,
Manager Quality Assurance

DEC/br

cc: G. Bennett Browne, Supt. Subcontracts (BA)
J. Smart, (BA/QA)
C.Z. DeZutel
J.C. DeZutel
C.L. Eichstadt, Jr.
B. LaRoche
T. Packy
Q.A. Chicago
Q.A. Clinton



9.

CUSTOM METAL FABRICATION

October 23, 1981
HVAC Contract #J-2590

Commonwealth Edison Co.
LaSalle County Nuclear Station
Rural Route #1, Box 220,
2601 N. 21st Road,
Marseilles, IL 61341

Attn: Mr. William Donaldson
Site Manager

Ref: The Zack Company letter dated September 25, 1981

Subject: Potential 10CFR50.55(e)

Gentlemen;

Since the determination of the inconsistencies in the HVAC material certifications, a concentrated effort has been expended by The Zack Company to review and validate all material certifications for this project. As indicated in the above referenced letter, upon completion of this revalidation a detailed report would be forwarded for your review and any deficiencies identified would be highlighted which would require Sargent and Lundy's assistance and participation in the evaluation and determination of these deficiencies for a reportable 10CFR50.55(e) defect.

The Zack Company, therefore, requests that those deficiencies identified in the attached report be forwarded to Sargent and Lundy for their review and concurrence that a reportable defect does not exist.

It is The Zack Company's opinion that none of those identified deficiencies would have adversely affected the safety of operations of the nuclear power plant at anytime throughout the expected lifetime of the plant.

The Zack Company is acutely aware of the need to fully comply with the requirements of the technical specification, the contract, the ANSI related codes and 10CFR50 Appendix "B". In consideration of this the final section of the report clearly and concisely shows the corrective action planned, and taken to date.

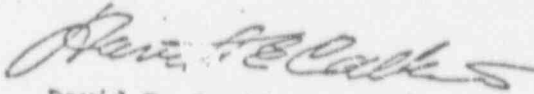
• FOUNDED TO SOLVE THE UNIQUE METAL FABRICATION NEEDS OF INDUSTRY •
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If there are any questions, additional information or concerns in regard to this report, please do not hesitate to contact either;

Mrs. Christine Zack DeZutel, President
(or) Mr. David E. Calkins, Manager Quality Assurance
at (312) 242-3434.

Very truly yours,

THE ZACK COMPANY



David E. Calkins,
Manager Quality Assurance

DEC/dr

cc: Mr. L.J. Burke, Site Project Svot.
Mr. T. Quaka, QA CECo.
Mr. J. Dearbeck, CECo.
C.Z. DeZutel
J.C. DeZutel
C.L. Eichstaedt, Jr.
C. Baumgardner
Q.A. Chicago
Q.A. LaSalle

MEMO

Ray Basiaga

12 Dec 31, 1983

To: All Project Managers
Document Supervisor Q.A.
Quality Engineers
Q.A. File Approved Vendors' List
Purchasing Dept.

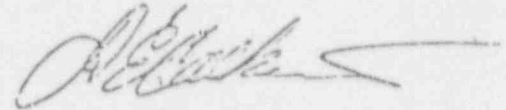
December 17, 1981

Re: FASTENER (NUTS, BOLTS & WASHER) SUPPLIERS

In accordance with a telephone conversation on 12/17/81 with Mr. Harvey Westcott of the NRC, Region III, the requirement for a nut, bolt and washer supplier to have a Quality Assurance program had been previously addressed in relation to the nuts, bolts and washers used on cable trays at the Clinton plant and the ruling was as follows:

1. The material must be properly marked in accordance with ASTM standards.
2. Certifications must be provided in accordance with ASTM requirements.
3. The supplier is not required to have a Quality Assurance program because the material is completely verifiable by receipt inspection.
4. The requirements are only for batch traceability as certified by the manufacturer.

Therefore, based on the above discussion as documented by this letter, The Sack Company is approving our commercial fastener suppliers for safety and non-safety related fasteners.



D. E. Calkins
Mgr., Q.A.

Release



CUSTOM METAL FABRICATION

Control, Content and Maintenance
of Q.A. Purchase Order/Certified
Material Test Report Files

1.0 PURPOSE

The purpose of this instruction is to establish the controls, content and maintenance of the Q.A. Purchase Order/Certified Material Test Report files. This instruction supplements the requirements of the Zack Company Quality Assurance Manual, Section 7, Rev.0.

2.0 SCOPE

This instruction SHALL govern the activities associated with the control, content and maintenance of the Q.A. Purchase Order/Certified Material Test Report files. The following topics are presented.

- 6.1 Content of Q.A. PO/CMTR files.
- 6.2 Acquisition of Q.A. PO/CMTR file content.
- 6.3 Receipt, duplication, distribution and filing of Q.A. PO/CMTR file content.
- 6.4 Records.

3. APPLICABILITY

This instruction SHALL apply to all Q.A. Purchase Order/Certified Material Test Report files maintained by the Zack Company, Chicago facility.

4.0 DEFINITIONS

4.1 Q.A. Purchase Order/Certified Material Test Report File

(Q.A. PO/CMTR) - A gathering of Zack Company purchase requisitions, Purchase Orders, certified material test reports and/or certificates of compliance, receiving inspection reports, and other supplementary documentation that is authorized, controlled and maintained in accordance with the provisions of this Instruction.

4.2 Q.A. PO/CMTR Log - A chronological daily log of documentation received by and/or originated by The Zack Company for inclusion in the Q.A. PO/CMTR files.

4.3 Q.A. PO/CMTR Binder Content Checklist - A checklist indicating receipt date and individual receiving the documentation comprising the content of each binder. A checklist is part of the content of each binder.

5.0 RESPONSIBILITIES

- 5.1 The Quality Assurance Manager SHALL be responsible for the following:
- 5.1.1 Authorizing and prescribing the content of the Q.A. PO/CMTR files.
 - 5.1.2 Controlling access to the Q.A. PO/CMTR files by Zack Company individuals and by others.
 - 5.1.3 The assignment of Zack Company individuals to tasks related to control, content and maintenance of Q.A. PO/CMTR files.
- 5.2 The Document Control Clerk SHALL be responsible of the following:
- 5.2.1 Receiving and logging all documentation that is included in the Q.A. PO/CMTR files.
 - 5.2.2 The daily maintenance of the Q.A. PO/CMTR log.
 - 5.2.3 The duplication and distribution of documentation by this instruction.
 - 5.2.4 Filing of documentation as required by this instruction.
 - 5.2.5 Originating and maintaining the Q.A. PO/CMTR file invoices in a current status.
 - 5.2.6 Initiating and maintaining each binder checklist in current status.
 - 5.2.7 The general maintenance of the Q.A. PO/CMTR files.

6.0 REQUIREMENTS AND RECOMMENDATIONS

- 6.1 Content of Q.A. PO/CMTR files.
- 6.1.1 The content of the Q.A. PO/CMTR files and filing method SHALL be as follows:
- A. All documentation related to a specific purchase order number (control number) gathered in and firmly attached in a "Smead" No. C402-5A-2D binder or similar binder.
 - B. Each binder labeled with the specific P.O. number.
 - C. Each binder filed in strict numerical sequence in a fire resistant file cabinet.
 - D. Each file drawer identified with a alpha/numeric designation.
 - E. Each file drawer containing an index of the contents of the drawer.
- 6.1.2 Each individual Q.A. PO/CMTR binder, when complete shall contain the following documentation as a minimum.
- A. Copy of purchase requisition.
 - B. Copy of purchase order.
 - C. Copy of Certified Material Test Report and/or Certificate of Compliance as required by P.O.
 - D. Copy of receiving inspection report.
 - E. Copy of binder checklist.
 - F. Any other authorized documentation.

D. Receiving Inspection Checklist

1. Log in daily log.
2. Attach in numbered binder.
3. Enter on checklist.

E. Any other documentation

1. Log in daily log.
2. Attach in numbered binder.
3. Enter on checklist.

6.4 Records

6.4.1 The following records shall be collected, stored, and maintained in accordance with the requirements of the Zack Company Quality Assurance Manual for the retention as indicated.

- A. Q.A. PO/CMTR file invoices - life.
- B. Q.A. PO/CMTR daily log - 2 years.

Purchase Order No. _____

QA PO/CMTR BINDER CONTENT
CHECKLIST

DOCUMENT

DATE-INITIALS

Checklist.....

Requisition.....

Purchase Order.....

Receiving Inspection Report(s).....

CMTR/C of C.....
(list each by Vendor)

.....
.....
.....
.....
.....

Other Documentation
(List)

MANAGER
QUALITY ASSURANCE
David E. Calkins

SECRETARY
Barbara Ritchie

QUALITY ENGINEER
SUPERVISOR

Q.C. MANAGER
CHICAGO

Q.C. MANAGER
LASALLE
Harry Geyer

Q.C. MANAGER
CLINTON
*Tom Packy

CHICAGO

*Martin Skates - lead
Ken Schaefer
*Ray Basiaga

MIDLAND

*John O'Connell
*Ed Bodley

INSPECTORS

Charlie Richards -II
*Jim Michalik -II

INSPECTORS (Zack)

Mark Geyer - II
Sam Chennilero -II
Kurt Dietrich - II
Tom Pierski -I
Tim Richards - I
Trent Tribble -II
Ralph Hill -I

INSPECTORS (Quan Tech)

Wayne Kitchen -II
Wayne McFeeley -II
Wm. Temple - II

ASS'T Q.C. MGR

*Gary Mosby

INSPECTORS (Zack)

Dan Hanke -II
Ron Nelson -II
*Larry Smith -II
Rick Becker -I
*Perry Wimbish -II

INSPECTORS (Comst)

Dan Jenniges -II
W.T. Elliott -II
*Bruce Rarrick -I
*Geoff Richards -I
Jerry Retzer -II

INSPECTORS (Quan)

*Billie Tyree -II

Kathy Blomely -S.

Diane Nelson -Cl

DOCUMENTATION
GROUP

- *Sharon Mareello -Clerk
- Howard McGrane (MPQAD REP.)
- Ron Perry (Quan-Tech)
- Larry Mondock " "
- Euell Hilyer " "
- *Dean Henigan (Zack)
- *Terry Howard (Zack)



CUSTOM METAL FABRICATION

August 2, 1982

U.S.N.R.C. Region III Office
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Attn: Mr. J. G. Keppler

Re: Telecon of July 29, 1982 to Mr. Robert Walker
at 4:20 P.M.

Subject: Potential 10CFR21 - Weld Records

Gentlemen:

This letter is to confirm the verbal telephone report given by Mr. D. E. Calkins, Manager of Engineering for the Zack Company on Thursday, July 29, 1982 at 4:20 P.M. to Mr. Robert Walker at the Region III, Glen Ellyn offices of the Nuclear Regulatory Commission.

The attached report and corrective action plan has been prepared by Mr. Martin Skates, Quality Assurance Manager, as my designee for all Zack Company quality related matters.

During the course of an existing internal Zack Company investigation, initiated by the Zack Company officers, a box of paperwork was observed being taken to the trash by a plant employee. The company maintenance man brought the documents to the attention of Zack management.

A preliminary review of the documents (see attached report for details) indicates a possible discrepancy between the welder of record and the welder who may have actually performed the welds.

This potential discrepancy is still in the process of being fully investigated, but the initial indications are that it could have occurred during the 1977 to 1981 time frame.

8208160248 10pp

August 2, 1982

Page 2

The Zack Company has initiated and is still in the process of conducting a full scale investigation of this potential discrepancy. However, in an attempt to keep all relevant information open and available to the appropriate parties, the Zack Company is initiating this potential 10CFR21 before it has been determined that a deficiency does exist.

By copy of this letter and the attached report the Zack Company is also confirming the verbal notifications given to the effected utilities.

The Zack Company will cooperate with the Nuclear Regulatory Commission and the respective utilities to the fullest degree possible in the performance of this investigation and its closure.

Should you have any questions or problems concerning this matter, please do not hesitate to contact me or Mr. Martin Skates at (312) 242-3434.

Very truly yours,

THE ZACK COMPANY



CHRISTINE ZACK DE ZUTEL,
PRESIDENT

CZDZ/art

Enc?.

cc: Mr. William Harrington
Baldwin Associates
Mr. L. E. Davis
Bechtel Power Company
Mr. Dan L. Shamblin
Commonwealth Edison Company

THE ZACK COMPANY

POTENTIAL 10 CFR21

REPORTABLE DEFICIENCY EVALUATION

FOR

ACCURACY OF WELDER RECORDS

PREPARED BY: David E. Calkins 8/2/82
David E. Calkins, Manager Engineering

REVIEWED BY: M. L. Skates 8/2/82
M. L. Skates, Manager Quality Assurance

APPROVED BY: Christine Zack DeZute 8-2-82
Christine Zack DeZute, President

1.0 Notification:

- 1.1 The Zack Company in accordance with the intent of the reportability requirements within the Code of Federal Regulations, is reporting a Potential 10CFR21 condition relating to a possible discrepancy in the documentation that reflects the welder of record and the welder who may have actually performed the welds.
- 1.2 This report constitutes the Zack Company's official written notification of a Potential 10CFR21 condition and confirms our verbal notification on Thursday, July 27, 1982 at 4:20 PM to Mr. Roger Walker at the Region III Glen Ellyn Offices of the Nuclear Regulatory Commission.

The information relative to this report was obtained Tuesday, July 27, 1982.

The maintenance man observed a box of paperwork being taken to the trash by a plant employee. The maintenance man checked with management to see if the documents should be kept. A review of some of the documents raised questions about welding documentation.

2.0 Identification:

The possible deficiency being investigated is that certain working copies of the shop travelers were obtained and that these copies were compared against the official quality record copies. A possible discrepancy exists between certain information contained on the working copy versus the Q.A. record copy.

The components involved are ductwork (geometrically shaped sheet metal) and hangers (structural steel support members) shipped to the following nuclear facilities:

1. LaSalle Nuclear Power Station
Marseilles, Illinois
2. Clinton Power Station
Clinton, Illinois
3. Midland Power Station
Midland, Michigan

2.2 The work being reviewed for a potential discrepancy by the Zack Company is limited to work performed at its Cicero, Illinois and Chicago, Illinois facilities.

3.0 Potential Deficiency Description:

3.1 The Zack Company utilizes a traveler system to fabricate the components and to record as built, as welded conditions and as inspected verifications. Certain "working" copies (photocopies) of the official travelers utilized by the production tradesmen contain the initials of various tradesmen who apparently performed some function on that component. Relevant information (i.e. welders numbers, material identification, etc.) was then transferred to the official copy (original traveler). The initial review of the working copies of certain travelers indicates that they contain inconsistencies. The Zack Company is in the process of trying to determine if the initials of a welder on the working copy indicate that the individual actually welded on the component, or whether they represent some other function he performed.

4.0 Action Taken To Date:

The Zack Company has initiated the following actions in an effort to determine the ramifications of, the validity of the inconsistencies and the possible safety implications, if any.

- 4.1 The Zack Company has initiated an investigation into the authenticity and validity of the information, the basis for the accumulation for the information, and the reason the information was being discarded.
- 4.2 The individual discarding the box of paperwork (working copies of certain travelers) has been suspended for thirty days pending the results of the Zack investigation.
- 4.3 Pinkerton Security service was obtained to provide 24 hour surveillance of all Zack records to provide assurance that no relevant documents would leave the premises.
- 4.4 The Zack Company has also initiated the gathering of the following types of information to substantiate the quality records and provide the information necessary to determine whether a safety problem exists or not
 - Payroll records will be used to validate time frames welders worked.
 - Validation that all welders available were qualified and certified to perform work.
 - Validating the other inspections performed (i.e. shop, site, client).
 - Obtaining additional clarification relevant to the meaning of information on working copies (photocopies) from available personnel. This information could be obtained in form of telephone conversations, statements, etc.
- 4.5 A management corrective has been issued to all Zack Company employees regarding the disposal of documents.

- 5.0 Corrective Action Plan:
- 5.1 To do a full scale investigation of Safety Related Travelers, Weld Wire Issue Slips, Welder Qualifications and Shipment Packages corresponding to the working copies of travelers obtained for the time frame of 1977 through 1981 on the LaSalle Power Station, Midland Power Station and the Clinton Power Station.
- 5.2 As additional temporary surveillance program to verify the identification of the record of welders will be established to substantiate that correct welder identifications are transposed to the record documents.
- 5.3 To bring in-house, additional qualified personnel to assist in the investigation.
- 5.4 To submit - final report to the N.R.C. by August 31, 1982.

LaSalle Project - 3300

Traveler Information:

1. The yellow traveler is the Quality Control Document that is maintained as a part of Zack's permanent records system for final turnover, also for the Quality Control Inspector verification.
2. The white traveler was a copy of the yellow traveler used by the shop fabrication foremen to record as-built or as-welded conditions during actual fabrication.

A review of one hundred and seventy yellow and white safety-related shop travelers has revealed the following conditions;

- A. Category-I, Seventeen (17) travelers shows the yellow travelers and the white travelers reveals the same welder information.
- B. Category-II, Thirty-eight (38) travelers shows the white traveler contains more welder identification than the yellow traveler.
- C. Category-III, Fifty-eight (58) white travelers shows different welder identification than the yellow traveler.
- D. Category-IV, Fifty-seven (57) yellow travelers shows more welder identifications than white traveler.

Midland Project - 2400

Traveler Information;

1. The yellow traveler is the Quality Control Document that is maintained as a part of Zack's permanent system for final turnover, also used for the Quality Control Inspectors verifications.
2. The white traveler was a copy of the yellow traveler used by the shop fabrication foreman to record as-built or as-welded conditions, during actual fabrication.

A review of nine hundred and fifty-one safety-related shop travelers has revealed the following conditions at this time;

- A. Six hundred and eighty-one (681) travelers shows the yellow travelers and the white travelers reveals the same welder information.
- B. One hundred and thirty (130) travelers shows the white travelers contains more welder identifications than the yellow traveler.
- C. One hundred and forty (140) travelers show unverified welder qualification at the time of issue on the travelers.

Clinton Project - 2900

Traveler Information:

1. The yellow traveler is the Quality Control Document that is maintained as a part of Zack's permanent system for final turnover, also used for the Quality Control Inspectors verifications.
2. The white traveler was a copy of the yellow traveler used by the shop fabrication foreman to record as-built or as-welded conditions, during actual fabrication.

A review of eleven hundred and sixty-six (1166) safety-related shop travelers has revealed the following conditions at this time:

- A. Seven Hundred and twenty (720) travelers shows the yellow travelers and the white travelers reveals the same welder information.
- B. One Hundred and sixty-two (162) travelers show the white traveler contains more welder identifications than the yellow traveler.
- C. Two Hundred and eighty-four (284) travelers show unverified welder qualification at the time of issue dates on the travelers.

15.



CUSTOM METAL FABRICATION

September 14, 1982

U.S.N.R.C. Region III Office
709 Roosevelt Road
Glen Ellyn, Illinois 60137

Attn: Mr. J. G. Keppler,
Regional Administrator

Subject: Potential 10CFR21 as reported on July 29, 1982 and
August 2, 1982

Dear Mr. Keppler:

Effective this date, September 14, 1982, The Zack Company officially withdraws its declaration of a potential 10CFR21.

This withdrawal is based upon the results of an investigation conducted on identification discrepancies on travelers.

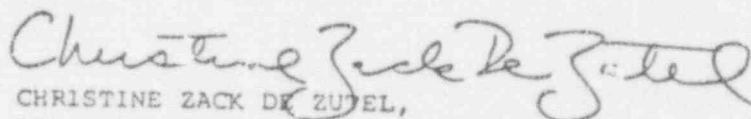
The precipitating conditions causing the premature issuance of a potential 10CFR21 proved to be inconsequential in light of the ensuing investigation.

The Zack Company has every confidence that its concerns regarding identification discrepancies pose no threat to the integrity of safe function of our product at LaSalle, Illinois, Clinton, Illinois or Midland, Michigan.

If you have any questions, or we can be of further assistance, please contact me or Mr. Martin Skates, Quality Assurance Manager.

Very truly yours,

THE ZACK COMPANY


CHRISTINE ZACK DEZUREL,
PRESIDENT

CZDZ/art

8209210083 ip



16.

CUSTOM METAL FABRICATION

October 23, 1981
7220-M-151-C/B-552

Bechtel Power Corporation
P.O. Box 2167,
Midland, Michigan 48640

Attn: Mr. L.E. Davis
Site Manager

Ref: The Zack Company letter #7220-M-151-C/B-538, dated August 28,
1981

Subject: Potential 10CFR50.55(e)

Gentlemen:

Since the determination of the inconsistencies in the HVAC material certifications, a concentrated effort has been expended by The Zack Company to review and validate all material certifications for this project. As indicated in the above referenced letter, upon completion of this revalidation a detailed report would be forwarded for your review and any deficiencies identified would be highlighted which would require Bechtel Power Corporation's assistance and participation in the evaluation and determination of these deficiencies for a reportable 10CFR50.55(e) defect.

The Zack Company, therefore, requests that those deficiencies identified in the attached report be forwarded to Bechtel Power Corporation for their review and concurrence that a reportable defect does not exist.

It is The Zack Company's opinion that none of those identified deficiencies would have adversely affected the safety of operations of the nuclear power plant at anytime throughout the expected lifetime of the plant.

The Zack Company is acutely aware of the need to fully comply with the requirements of the technical specification, the contract, the ANSI related codes and 10CFR50 Appendix "B". In consideration of this the final section of the report clearly and concisely shows the corrective action planned and taken to date.

Pg. 2

If there are any questions, additional information or concerns in regard to this report, please do not hesitate to contact either;

Mrs. Christine Zack DeZutel, President
(or) Mr. David E. Calkins, Manager Quality Assurance
at (312) 242-3434.

Very truly yours,

THE ZACK COMPANY

David E. Calkins

David E. Calkins,
Manager Quality Assurance

DEC/br

cc: Mr. John Rutgers, (BPCo)
Mr. Clark Ash, (BPCo)
Mr. Hank Leonard, (MPQAL Mgr.)
C.Z. DeZutel
J.C. DeZutel
C.L. Eichstaedt, Jr.
R.B. McCarley
Q.A. Chicago
Q.A. Midland

4600 W. 12TH PLACE • CHICAGO (C. JERO) ILL 60650 • 312/242-3434
4401 WESTERN • FLINT MICHIGAN 48506 • 313/736-2040



CUSTOM METAL FABRICATION

October 23, 1981
#K-2910-ZCB-300

Baldwin Associates
P.O. Box 306,
Clinton, IL 61727

Attn: Mr. William Harrington
Project Manager

Ref: The Zack Company letter #K-2910-ZCB-297, dated September 25,
1981

Subject: Potential 10CFR50.55(e)

Gentlemen;

Since the determination of the inconsistencies in the HVAC material certifications, a concentrated effort has been expended by The Zack Company to review and validate all material certifications for this project. As indicated in the above referenced letter, upon completion of this revalidation a detailed report would be forwarded for your review and any deficiencies identified would be highlighted which would require Sargent and Lundy's assistance and participation in the evaluation and determination of these deficiencies for a reportable 10CFR50.55 (e) defect.

The Zack Company, therefore, requests that those deficiencies identified in the attached report be forwarded to Sargent and Lundy for their review and concurrence that a reportable defect does not exist.

It is The Zack Company's opinion that none of those identified deficiencies would have adversely affected the safety of operations of the nuclear power plant at anytime throughout the expected lifetime of the plant.

The Zack Company is acutely aware of the need to fully comply with the requirements of the technical specification, the contract, the ANSI related codes and 10CFR50 Appendix "B". In consideration of this the final section of the report clearly and concisely shows the corrective action planned and taken to date.

• FOUNDED TO SOLVE THE UNIQUE METAL FABRICATION NEEDS OF INDUSTRY •
• DEDICATED TO CLEANING AND CUSTOMIZING THE AIR OF THE WORLD •

Duplicate

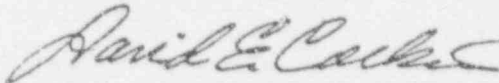
Pg. 2

If there are any questions, additional information or concerns in regard to this report, please do not hesitate to contact either;

Mrs. Christine Zack DeZutel, President
(or) Mr. David E. Calkins, Manager Quality Assurance
at (312) 242-3434.

Very truly yours,

THE ZACK COMPANY



David E. Calkins,
Manager Quality Assurance

DEC/br

cc: G. Bennett Browne, Supt. Subcontracts (BA)
J. Smart, (BA/QA)
C.Z. DeZutel
J.C. DeZutel
C.L. Eichstaedt, Jr.
B. LaRocne
T. Packy
Q.A. Chicago
Q.A. Clinton



CUSTOM METAL FABRICATION

October 23, 1981
HVAC Contract #J-2590

Commonwealth Edison Co.
LaSalle County Nuclear Station
Rural Route #1, Box 220,
2601 N. 21st Road,
Marseilles, IL 61341

Attn: Mr. William Donaldson
Site Manager

Ref: The Zack Company letter dated September 25, 1981

Subject: Potential 10CFR50.55(e)

Gentlemen;

Since the determination of the inconsistencies in the HVAC material certifications, a concentrated effort has been expended by The Zack Company to review and validate all material certifications for this project. As indicated in the above referenced letter, upon completion of this revalidation a detailed report would be forwarded for your review and any deficiencies identified would be highlighted which would require Sargent and Lundy's assistance and participation in the evaluation and determination of these deficiencies for a reportable 10CFR50.55(e) defect.

The Zack Company, therefore, requests that those deficiencies identified in the attached report be forwarded to Sargent and Lundy for their review and concurrence that a reportable defect does not exist.

It is The Zack Company's opinion that none of those identified deficiencies would have adversely affected the safety of operations of the nuclear power plant at anytime throughout the expected lifetime of the plant.

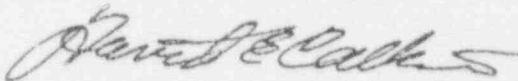
The Zack Company is acutely aware of the need to fully comply with the requirements of the technical specification, the contract, the ANSI related codes and 10CFR50 Appendix "B". In consideration of this the final section of the report clearly and concisely shows the corrective action planned and taken to

If there are any questions, additional information or concerns in regard to this report, please do not hesitate to contact either;

Ms. Christine Zack DeZutel, President
(or) Mr. David E. Calkins, Manager Quality Assurance
at (312) 242-3434.

Very truly yours,

THE ZACK COMPANY



David E. Calkins,
Manager Quality Assurance

DEC/br

cc: Mr. L.J. Burke, Site Project Supt.
Mr. T. Quaka, QA CECO.
Mr. J. Dearbeck, CECO.
C.Z. DeZutel
J.C. DeZutei
C.L. Eichstaedt, Jr.
C. Baumgardner
Q.A. Chicago
Q.A. LaSalle

AC

THE ZACK COMPANY

POTENTIAL: 10CFR50.55(E)

REPORTABLE DEFECT EVALUATION
FOR
MATERIAL CERTIFICATION DEFICIENCIES

PREPARED BY *David E. Calkins*
DAVID E. CALKINS, MANAGER () CITY ASSURANCE

APPROVED BY *Raymond M. Greune*
RAYMOND M. GREUNE, PROJECT MANAGER

APPROVED BY *Christine Zack DeZutel*
CHRISTINE ZACK DEZUTEL, PRESIDENT

THE ZACK COMPANY

POTENTIAL: 10CFR50.55(E)

REPORTABLE DEFECT EVALUATION
FOR
MATERIAL CERTIFICATION DEFICIENCIES

PREPARED BY David E. Calkins
DAVID E. CALKINS, MANAGER QUALITY ASSURANCE

APPROVED BY Carl L. Eichstaedt, Jr.
CARL L. EICHSTAEDT, JR. PROJECT MANAGER

APPROVED BY Christine Zack DeZutel
CHRISTINE ZACK DEZUTEL, PRESIDENT

INDEX

- 1.0 DESCRIPTION OF DEFICIENCY
- 2.0 SAFETY IMPLICATIONS
- 3.0 RESULTS OF REVIEW
- 4.0 EVALUATION OF DATA
- 5.0 IDENTIFICATION OF DEFICIENCIES
REQUIRING ENGINEERING EVALUATION
- 6.0 CORRECTIVE ACTION
 - 6.1 PLANNED
 - 6.2 TAKEN
 - 6.3 SCHEDULED COMPLETION
- 7.0 ATTACHMENTS
 - 7.1 LETTERS OF NOTIFICATION
 - 7.2 INTERIM REPORTS - DOCUMENTATION REVIEW TEAM
 - 7.3 U.S. STEEL LETTER

1.2 DESCRIPTION OF DEFICIENCY

There has been a breakdown of the quality assurance program as related to criterions "VI - Document Control" and "VII - Control of purchased material, equipment and services", of Appendix "B" to title 48 of the Code of Federal Regulations, Part 50. This breakdown resulted in an incomplete review and acceptance of procurement documentary evidence (material certifications) and access to those documents by unauthorized personnel resulting in improper modifications being made.

A quality review of the material certifications revealed that the certifications contained numerous errors of omission, inaccuracies and in some instances alterations or modifications. These errors and inconsistencies made the material certifications suspect and, by implication, the material suspect.

A complete review of the existing purchase orders and corresponding certifications was then conducted to identify all problems or suspected problems and to categorize them into various types of deficiencies with a rating for the significance of each type of deficiency. Each purchase order package reviewed has been arbitrarily categorized by the more significant deficiency or problem. Thus any one package may contain certifications with a wide variety of deficiencies or problems.

The deficiencies were categorized as indicated below from least to most significant:

TYPE

DEFINITION

Clerical errors:

Those certifications that had acceptable chemical and physical test data but lacked reference to the prefix "ASTM" (i.e., A36 instead of ASTM-A-36), the revision or date of standard, the standard (i.e., ASTM, ASME or other standard) or the G-90 coating designation on sheet steel.

Signature missing:

Those certifications that are acceptable in all aspects except, they had not been signed by an authorized representative for the company.

Signature error:

Those certifications that are acceptable in all aspects except, the signature typed and the signature signed do not agree (i.e., J. Jones Q.A. Mgr. typed - actually signed by Tom Smith).

U.S. Steel letter:

Those purchase orders placed with U.S. Steel Supply and identified by their letter dated 9/25/81 that were not produced and/or distributed through their verification and traceability program.

Anomalies:

Those purchase orders or material control numbers identified by the sites as requiring certifications; but, which do not appear to be applicable (i.e., drill bits, grinders, tools of various kinds and office supplies). Also certain material control numbers outside the Zack numbering sequence.

C of C only:

Those purchase order packages containing only a certificate of compliance, where it is not clear that this meets contract technical specification requirements.

No certification or
C of C:

Those purchase order packages which do not contain either a certificate of compliance or other certification and by contract technical specification

appear to require a certificate of compliance.

Wrong standard referenced: Those purchase order packages that contain a material certification or certificate of compliance that references a standard not included in the technical specification.

Miscellaneous: Purchase orders indicate by the sites requiring certification but have been "VOIDED" by Chicago, material certifications to standards not available to the reviewers, or other categories not previously identified.

Certifications missing: Those purchase order packages which are lacking only certifications for certain item(s) or all certifications.

Stickers: Those purchase order certifications or certification cover sheets that had gummed labels applied to them. These labels are typed and signed by the individual originally certifying the data to indicate ASTM designation in full. Authenticity of the signature is questionable.

Alterations: Those certifications that have apparently been altered by typed or handwritter changes.

Chemical/Mechanical
test data:

Those purchase order certifications which have
chemical analysis and/or mechanical test data
missing or is not in accordance with ASTM Standards
or technical specification requirements.

2.0 SAFETY IMPLICATIONS:

A review of the types of discrepancies discovered with the material certifications led The Zack Company to believe that only two types of problems exist that could have any safety implication:

1. Indeterminate material properties
2. Unacceptable material properties

The identification of materials falling within these two categories has been detailed in Section 5 of this report for review by the responsible Architect-Engineer.

While The Zack Company does not have any contractual design responsibility, it has included within the following paragraphs the rationale utilized in determining its opinion that the deficiencies identified do not constitute a substantial safety hazard and are therefore, not reportable under the requirements of Title 10 of the Code of Federal Regulations, Part 50, Section 50.55(e).

2.1 The safety implications assumed by The Zack Company for the safety-related and seismic identified HVAC systems are:

1. The inability of the materials to withstand the static loads imposed during normal operating conditions.
2. The inability of the materials and structures to withstand a seismic event.

Of the material certification deficiencies noted the most serious would appear to be that of indeterminate material properties, where it would not lead to a simple verification of material properties to the design base. However, in all cases noted to date, there is enough information available to indicate that the properties will be able to be obtained or that enough testing of that type of material has been conducted to establish a basis of extrapolating a minimum value for the missing properties, and based upon these extrapolations determining the acceptance of the material.

Those materials with unacceptable material properties can be evaluated on a case by case basis for acceptance.

It is The Zack Company's understanding that the static loads imposed upon the HVAC systems are basically weight carrying loads for hangers and very low pressures for duct work during operation and that the primary consideration for material strength requirements is based upon the seismic loads the system must be able to withstand during an event. All of the materials evaluated by Zack personnel appear to approximate design specification requirements closely enough, that considering only normal engineering design practices, and not considering additional conservatism normally included in nuclear plant design, they would be acceptable for use in their present condition.

The material certification review that was conducted, included all materials delivered to the project site. For the basis of this evaluation, only those materials used in safety related or seismic designated systems have been included in Section 5 for engineering information. All other items, while still needing to be corrected or accepted contractually, do not have any bearing on the determination of a safety hazard and are not included for analysis.

3.0 RESULTS OF REVIEW:

The following paragraphs represent a summary of the finding of the review group. The information has been tabulated as a percentage of total purchase orders. However, it should be noted that each of the purchase orders may involve from 1 to 15 certifications with an average of 6 certifications per purchase order.

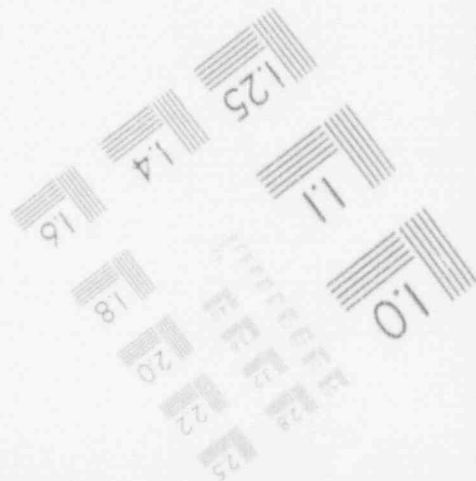
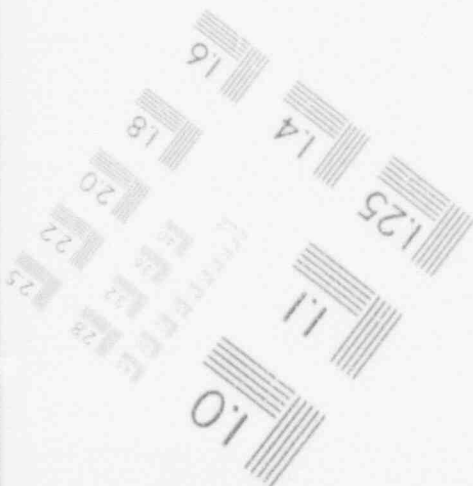
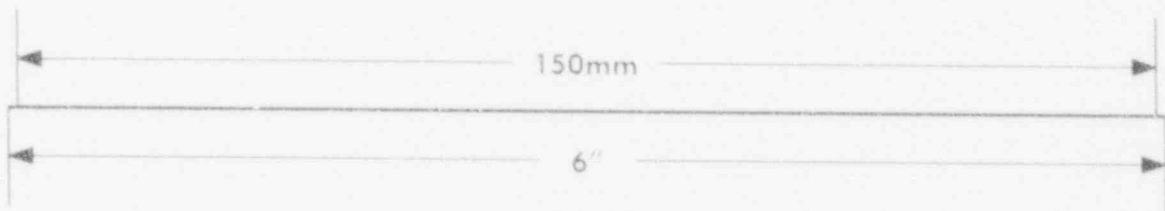
A total of 1,330 purchase order packages representing approximately 8,000 material certifications were reviewed and while the percentage of purchase order packages with a discrepancy appears to be rather high, the actual number of certifications with discrepancies requiring engineering evaluation is less than 18% percent. The majority of the discrepancies indicated will be corrected simply by obtaining additional or corrected data from suppliers. Therefore, not representing any significant problem to the projects in question.

A tabulated breakdown by project is as follows: (see attachments)

	550	TOTAL	<u>PERCENT</u>
PURCHASE ORDER/CMTR PKGS REVIEWED	145	.....	26
PACKAGES CORRECT & ACCEPTABLE.....	141	.....	26
CLERICAL ERRORS.....	17	.....	3
SIGNATURE MISSING.....	12	.....	2
SIGNATURE ERRORS.....	47	.....	9
CHEM/MECH TEST DATA.....	12	.....	2
U.S. STEEL LETTER.....	64	.....	7
C OF C ONLY.....	24	.....	3
NO CERT OR C OF C.....	11	.....	4
WRONG STANDARD REFERENCED.....	22	.....	8
CERTS MISSING.....	16	.....	3
ANOMALIES.....	31	.....	5
ALTERATIONS.....	6	.....	1
STICKERS.....	4	.....	1
MISCELLANEOUS.....			

2

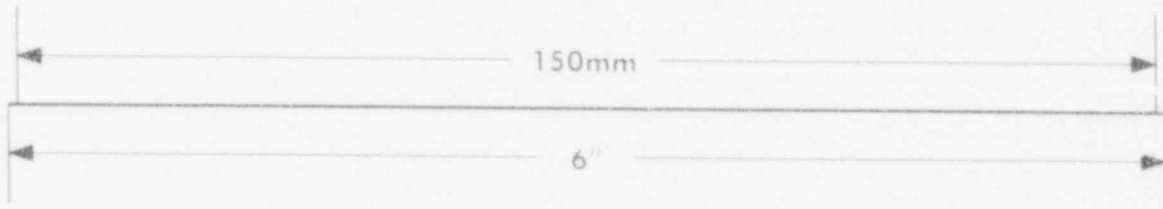
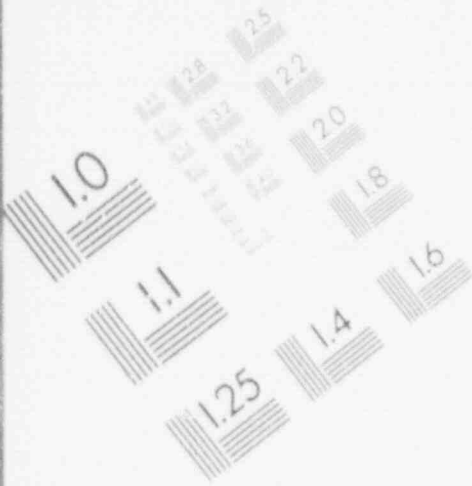
IMAGE EVALUATION TEST TARGET (MT-3)



PHOTOGRAPHIC SCIENCES CORPORATION
770 BASKET ROAD
P.O. BOX 338
WEBSTER, NEW YORK 14580
(716) 265-1600

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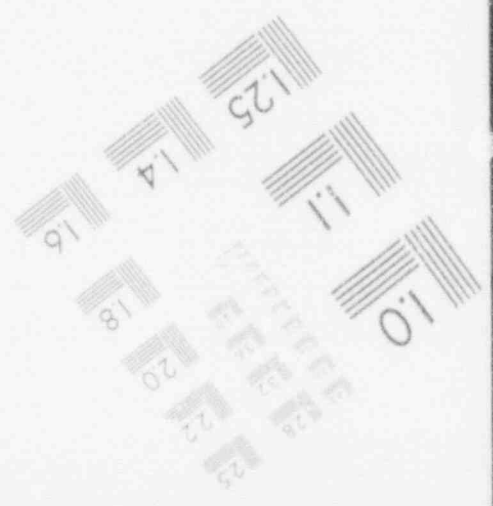
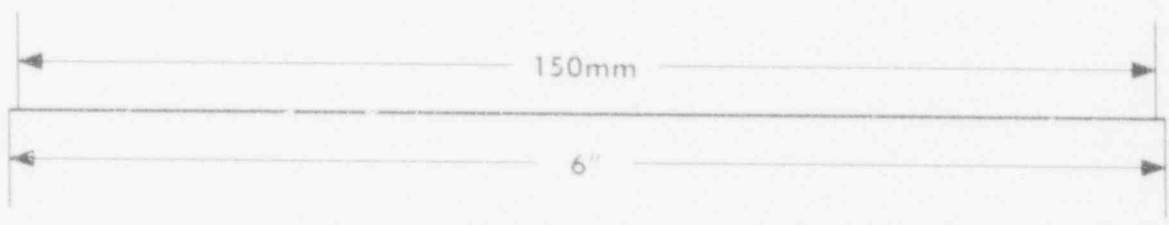
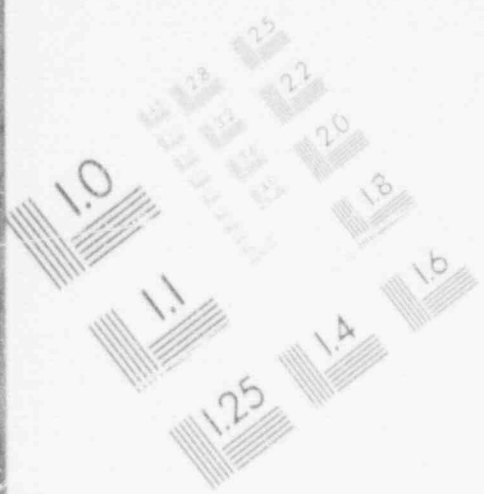
IMAGE EVALUATION TEST TARGET (MT-3)



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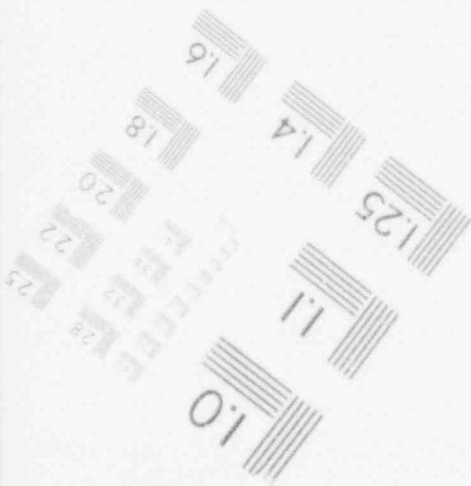
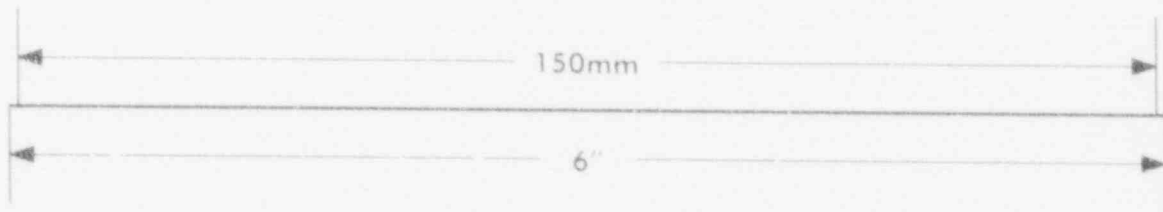
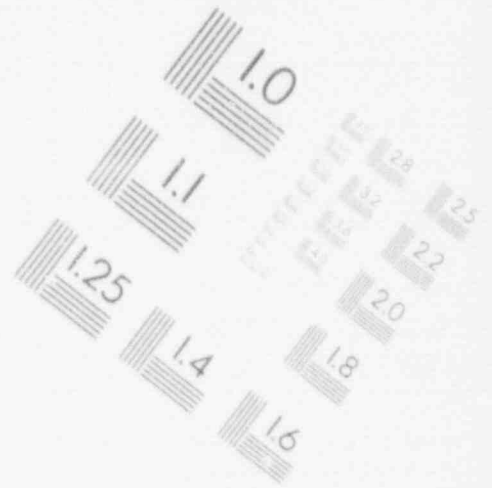
IMAGE EVALUATION TEST TARGET (MT-3)



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IMAGE EVALUATION TEST TARGET (MT-3)



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PURCHASE ORDER/CMTR PKGS REVIEWED	375	TOTAL	PERCENT
PACKAGES CORRECT & ACCEPTABLE.....	159		42
CLERICAL ERRORS.....	119		31
SIGNATURE MISSING.....	16		4
SIGNATURE ERRORS.....	9		2
CHEM/MECH TEST DATA.....	13		3
U.S. STEEL LETTER.....	1		-0-
C OF C ONLY.....	10		1
NO CERT OR C OF C.....	4		-0-
WRONG STANDARD REFERENCED.....	12		3
CERTS MISSING.....	15		7
LISTED BY SITE BUT NOT LOCATED (NOT PART OF TOTAL).....	20		---
ALTERATIONS.....	22		6
STICKERS.....	5		1
MISCELLANEOUS.....	7		1

	TOTAL	PERCENT
PURCHASE ORDER/CMTR PKGS REVIEWED	405	
PACKAGES CORRECT & ACCEPTABLE.....	109	27
CLERICAL ERRORS.....	152	37
SIGNATURE MISSING.....	9	2
SIGNATURE ERRORS.....	3	1
CHEM/MECH TEST DATA.....	10	2
U.S. STEEL LETTER.....	6	1
C OF C ONLY.....	14	5
NOT GOOD FOR LA SALLE	10	2
WRONG STANDARD REFERENCED.....	5	1
CERTS MISSING.....	20	5
LISTED BY SITE BUT NOT LOCATED (NOT PART OF TOTAL).....	40	-0-
ALTERATIONS.....	11	3
STICKERS.....	3	1
MISCELLANEOUS.....	7	2

4.0 EVALUATION OF DATA

An evaluation of the deficiencies noted on material certifications can be performed most effectively by evaluating the various categories as a whole, wherever possible and only evaluating the individual certifications where the category is determined to be significant.

4.1 CATEGORIES

- 4.1.1 Clerical errors - by definition these types of errors do not require any engineering evaluation but do require continued follow-up with the suppliers to obtain corrected documentation.
- 4.1.2 Signature missing - requires only correction by the issuing supplier, no engineering evaluation required.
- 4.1.3 Signature error - requires only correction by the issuing supplier, no engineering evaluation required.
- 4.1.4 U.S. Steel letter - there are 26 purchase orders referenced in this letter (see exhibit 7.3) where the material is acceptable to ASTM standards but the orders were not processed through the U.S. Steel Quality Program designated V&T for verification & traceability. This is a procurement ordering problem and does not require engineering evaluation.
- 4.1.5 Anomalies - the purchase orders in question do not affect actual materials of construction. Therefore, no engineering evaluation is required.
- 4.1.6 C of C only - An analysis of each item has been performed, see list in Section 5.

- 4.1.7 No certification or C of C - An analysis of each item has been performed, see list in Section 5.
- 4.1.8 Wrong standard referenced - Those purchase orders have been analyzed and are detailed in list in Section 5. No engineering evaluation is required.
- 4.1.9 Miscellaneous - An analysis of each item has been performed, see list in Section 5.
- 4.1.10 Certifications missing - An analysis of each item has been performed, see list in Section 5.
- 4.1.11 Stickers -The problem of the purchase orders with stickers them were given an extensive investigation. This investigation determined that person(s) within The Zack Company organization were responsible for the addition of these gummed labels to the material certifications. However, it must be taken into consideration that individual(s) involved did not believe that the addition of this information (i.e., ASTM designated number and year) misrepresented the actual condition of the material. The action, while misguided, was done to expedite the release of material that had acceptable chemical and physical properties while the corrected material certifications were being obtained. The Zack Company also assumes part of the responsibility for allowing the responsible person(s) to be put in a situation that may have appeared to encourage this type of action or at least did not have the necessary checks and balances which would have prevented the occurrence.

The responsible individual(s) have been identified and dealt with in accordance with a presently established company policy, (see corrective action taken), Section 6.

Of the nineteen (19) certifications originally identified to have had stickers added, a follow-up by the same individual(s) involved has resulted in corrected certifications for all but seven (7) of the purchase orders. A continued effort is being made to obtain corrected certifications for these remaining purchase orders. Each of the remaining purchase orders has been identified and evaluated in the list enclosed in Section 5.

- 4.1.12 Alterations - Material certification observed with more than one type-face used, white out, or hand written modifications have been categorized as altered. While the investigation has not determined where or when all of these alterations occurred, enough information was obtained to indicate that person(s) from The Zack Company were involved.

The responsible individual(s) have been identified and dealt with in accordance with a presently established company policy (see corrective action taken), Section 6.

The actual alterations while serious from a programatic view, do not effect the structural integrity of the materials and corrected copies will be obtained from the respective suppliers.

A list of the purchase orders involved and the alterations performed are included in the attached interim report (attachment 7.2).

4.1.13 Chemical/Mechanical test data - by definition this category covers only those items which a known chemical and physical certification is required and the review has indicated either the data is missing or incorrect. For those items identified in the attachments where data is missing, the probabilities are extremely high that The Zack Company will locate this information. In those cases where the information cannot be located a physical sample of this material will be identified and those samples will be tested. Based upon the information obtained to date The Zack Company is of the firm belief that all those items identified are of an acceptable quality.

For those items where a discrepant condition exists, this has been identified in the list in Section 5 and designated for Engineering review.

5.0 IDENTIFICATION OF DEFICIENCIES

The following list(s) are broken down by project and by type of discrepancy. Many of those items designated for Engineering review are simply missing certification. In those instances the comment section indicates that The Zack Company believes whether it can obtain the required information from the supplier or whether pieces will have to be identified and tested. Where it is indicated that certifications will be obtained, The Zack Company is requesting that engineering concurrence be given for continuation of work on the basis that prior to turn-over acceptable material certifications are available.

In all other cases The Zack Company is requesting Engineering concurrence that the proposed action stated under the comment section of the list in Section 5 are acceptable.

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CHEM/MECH TEST DATA

PAGE 1 OF 1

P.O. No.	ITEM NO.	REQ'D DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
708	1 x 1 x 1/8 TUBING (708-2)	MATERIAL CMTR TO ASTM-A-500 77	MISSING CERT. (CERT TO RHEW-1010)	ZACK COMPANY TO ACQUIRE CMTR TO A-500-77 FROM EDGEComb METALS.	ENG. EVALUATION REQUIRED.
711	1/2 x 10 BAR	MATERIAL CMTR TO ASTM-A-36 75	PHYSICAL TEST DATA MISSING	ZACK COMPANY TO ACQUIRE CMTR TO A-36-75 WITH PHYSICAL TEST DATA FROM EDGEComb METALS	ENG. EVALUATION REQUIRED.
1048	3/8 x 8 BAR	MATERIAL CMTR TO ASTM-A-36 75	PHYSICAL TEST DATA MISSING FROM CERT.	ZACK COMPANY TO ACQUIRE CMTR TO A-36-75 WITH PHYSICAL TEST DATA FROM NORTHWESTERN STEEL AND WIRE COMPANY	ENG. EVALUATION REQUIRED.
1195	26 GA. GALV. STEEL SHEET	MATERIAL CMTR TO A-527-71	MISSING CERT. C OF C ONLY CHEM/DATA ON INVOICE	ZACK COMPANY TO ACQUIRE CMTR TO A-327-71 FROM WOLF METAL SERVICE COMPANY	ENG. EVALUATION REQUIRED.
9411	#149 and 150	PHYSICAL TEST YIELD STR. 36,000 PSI MIN	MISSING PHYSICAL TEST DATA.	ZACK COMPANY TO ACQUIRE SPECIMEN FROM COIL NO. 149-150 AND PERFORM PHYSICAL TESTS.	ENG. EVALUATION REQUIRED.

P.O. No.	ITEM NO.	REQ'ED DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
C-453	Coil # 225 226 226 228	Chemical and Physical Test Report	No Physical Test Reports	Zack to obtain material samples and perform physical testing.	Engineer Resolution Required
C-455	Coil # 229 230 231 232	" "	" " " "	" " " " "	" " "
C-456	Sheets	" "	No certification found	Zack to obtain material samples and perform physical and chemical testing.	" " "
C-464	237 238 239 240	" "	No Physical Test Reports	Zack to obtain material samples and perform physical testing.	" " "
C-465	233 234 235 236	" "	" " " "	" " " " "	" " "
C-468	Sheet	" "	" " "	" " " " "	" " "
C-602	Coil # 252 253 254 255 256	" "	" " "	" " " " "	" " "

JOB:

P.O. No.	ITEM NO.	REQ'ED DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
C-603	Coil # 248 249 250 251	Chemical and Physical Test Report	No Physical Test Reports	Lack to obtain material samples and perform physical testing.	Engineer Resolution Required.
C-606	Sheets 606-1 606-2 606-3 606-4	" " " " " "	" " " " " "	" " " " " "	" " " "
C-609	271 276 272 274 275	" " " " " "	" " " " " "	" " " " " "	" " " "
	276	" " " " " "	" " " " " "	" " " " " "	" " " "
C-611	Coil # 280 281 282 283	" " " " " "	" " " " " "	" " " " " "	" " " "
C-624	Coil # 311 312 313 314	" " " " " "	" " " " " "	" " " " " "	" " " "
C-632	Coil # 351 352 353 354 Sheet 110 GA.	" " " " " "	" " " " " "	" " " " " "	" " " "

P.O. No.	ITEM NO.	REQ'ED DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
C-633	Coil # 315 316 317 318	Chemical and Physical test Reports	No physical test reports	Zack to obtain material samples and perform physical testing	Engineer Resolution Required
C-641	Coil #334 335 336 337	" " "	" " " "	" " " " " "	" " "
C-647	Coil # 327 328 329 330	" " "	Physical properties below 36,000 psi	Recommend engineer acceptance as is	Engineer Resolution Required
C-701	359 360 361 362 363	" " "	No Physical test report	Zack to obtain material samples and perform physical testing.	Engineer Resolution Required
C-717	Sheet	" " "	" " " "	" " " " " "	" " "
C-738	393 394 395 396	" " "	" " " "	" " " " " "	" " "
C-739	382 383 384	" " "	Physical properties below 36,000 psi	Recommend Engineer acceptance as is	Engineer Resolution Required

P.O. No.	ITEM NO.	REQ'ED DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
C-742	Coil # 372 373 374	Chemical and Physical Test Reports	Physical properties below 36,000 psi	Recommend engineer acceptance as is	Engineer Resolution Required
C-743	377 378 379 380 381	" " "	No Physical Test Reports	Zack to obtain material samples and perform physical testing.	Engineering resolution required.
C-789	423 424 425	" " "	Physical properties below 36,000 psi	Recommend engineer acceptance as is	Engineer Resolution Required
C-797	426 427 428	" " "	No physical Test Reports	Zack to obtain material samples and perform physical testing.	Engineer Resolution Required.
C-820	Sheet	" " "	" " " "	" " " " " "	" "
C-821	Sheet	" " "	" " " "	" " " " " "	" "
C-822	Sheets	" " "	" " " "	" " " " " "	" "

JOB: Midland

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P.O. No.	ITEM NO.	REQ'ED DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
C-824	Sheets	Chemical and physical test reports	No physical test reports	Zack to obtain material samples and perform physical testing	Engineer resolution required
C-851	461 449 450 451 452	"	"	"	"
C-888	888	"	"	"	"
C-912	462 463 482 499 500	"	"	"	"
	501 502	"	"	"	"
C-914	475 476 480	"	"	"	"
C-916	471 472 473 474	"	Physical properties below 36,000 psi	Recommend engineer acceptance as is	"

P.O. No.	ITEM NO.	REQ'ED DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
C-960	Coil # 491 492 493 494	Chemical and physical test reports	No Physical test reports	Zack to obtain material samples and perform physical testing	Engineer Resolution required.
C-1167	Sheets	" "	" " "	" " " "	" "
C-1241	Sheet	" "	" " "	" " " "	" "
C-1267	Coil # 597 598 599 600	" "	Physical properties below 36,000 psi	Recommend engineer acceptance as is	" "
C-1319	Coil # 612	" "	" "	" " " "	" "
C-9246	241 242 243 244	" "	No physical test reports	Zack to obtain material samples and perform physical testing.	" "
C-9247	257 261 278 258 262 279 259 263 260 264	" "	" "	" " " "	" "

JOB: Midland

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P.O. No.	ITEM NO.	REQ'D DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
C-9402	125	Chemical and physical test reports	No physical test reports	Zack to obtain material samples and perform physical testing	Engineer resolution required.
	126				
	127				
	128				
C-9403	117				
	118				
	119				
	120				
C-9407	109				
	110				
	111				
	112				
C-9409	180				
	181				
C-9410	113				
	114				
	115				
	116				
C-9412	148				
	151				
	152				
C-9413	156				
	157				

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P.O. No.	ITEM NO.	REQ'D DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
C-9417	Coil # 101 102 103 104	Chemical and physical test reports	No Physical test reports	Zack to obtain material samples and perform physical testing	Engineer resolution required
C-9432	Sheet	"	"	"	"
C-9445	Coil #202 203 204 205	"	"	"	"

JOB: MIDLAND

NUTS AND BOLTS

C OF C ONLY

PAGE 1 OF 4

P.O. No.	ITEM NO.	REQ'ED DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
594	Hex Nuts	Material CMTR	C of C Available only.	Zack Company to acquire CMTR from Seas, Inc.	Eng. evaluation required.
4041	Hex Bolts Hex Nuts Washers	Material CMTR	C of C available only.	Zack Company to acquire CMTR from Delta Screw Company.	Eng. evaluation required.
4053	Hilti Quik Bolts	Material CMTR	C of C available only.	Verbal O.K. for C of C from MPQAD (R. Ackers)	N/A
4088	Hex Nuts	Material CMTR	C of C available only.	Zack Company to acquire CMTR from Delta Screw Company.	Eng. evaluation required.
4	Hilti Quik Bolt.	Material CMTR	C of C available only.	Verbal O.K. for C of C from MPQAD (R. Ackers)	N/A
4286	Hex Nuts	Material CMTR	C of C available only.	Zack Company to acquire CMTR from Delta Screw Company.	Eng. evaluation required.
12340	Bolts Hex Nuts	Material CMTR	C of C available only.	Zack Company to acquire CMTR from Key-Crest, Inc.	Eng. evaluation required.

JCB:

MIDLAND

NUTS AND BOLTS

C OF C ONLY

PAGE 2 OF 4

P.O. No.	ITEM NO.	REQ'ED DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
12281	Bolts Hex Nuts	MATERIAL CMTR	C of C available only.	Zack Company to acquire CMTR from Key-Crest, Inc.	Eng. evaluation required.
12304	Hex Nuts	Material CMTR	C of C available only.	Zack Company to acquire CMTR from Key-Crest, Inc.	Eng. evaluation required.
12312	Hex Nuts Bolts	Material CMTR	C of C available only.	Zack Company to acquire CMTR from Key-Crest, Inc.	Eng. evaluation required.
12334	Hex Nuts	Material CMTR	C of C available only.	Zack Company to acquire CMTR from Key-Crest, Inc.	Eng. evaluation required.
12337	Bolts Hex Nuts	Material CMTR	C of C available only.	Zack Company to acquire CMTR from Key-Crest, Inc.	Eng. evaluation required.
19254	Bolts Hex Nuts	Material CMTR	C of C available only.	Zack Company to acquire CMTR from Key-Crest, Inc.	Eng. evaluation required.
13260	Bolts Hex Nuts	Material CMTR	C of C available only.	Zack Company to acquire CMTR from Key-Crest, Inc.	Eng. evaluation required.

JOB: MIDLAND

NUTS AND BOLTS

C OF C ONLY

PAGE 3 OF 4

P.O. No.	ITEM NO.	REQ'ED DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
13262	Hex Nuts. Bolts	Material CMTR	C of C available only.	Zack Company to acquire CMTR from Key-Crest, Inc.	Eng. evaluation required.
13273	Hex Nuts	Material CMTR	C of C available only.	Zack Company to acquire CMTR from Key-Crest, Inc.	Eng. evaluation required.
13293	Bolts Hex Nuts	Material CMTR	C of C available only.	Zack Company to acquire CMTR from Key-Crest, Inc.	Eng. evaluation required.
4055	Bolts Hex Nuts	Material CMTR	C of C available only.	Zack Company to acquire CMTR from Delta Screw Company.	Eng. evaluation required.
4058	Bolts Hex Nuts	Material CMTR	C of C available only.	Zack Company to acquire CMTR from Delta Screw Company.	Eng. evaluation required.
4080	Hex Nuts	Material CMTR	C of C available only.	Zack Company to acquire CMTR from Delta Screw Company.	Eng. evaluation required.
4128	Bolts Hex Nuts	Material CMTR	C of C available only.	Zack Company to acquire CMTR from Delta Screw Company.	Eng. Evaluation required.

JOB: MIDLANC NUTS AND BOLTS C OF C ONLY

P.O. NO.	ITEM NO.	REQ'D DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
4131	Bolts Hex Nuts	Material CMTR	C of C available only.	Zack Company to acquire CMTR from Delta Screw Company.	Eng. evaluation required.
4286	Hex Nuts	Material CMTR	C of C available only.	Zack Company to acquire CMTR from Delta Screw Company.	Eng. evaluation required.

P.O. No.	ITEM NO.	REQ'D DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
456	GALV. SHEETS	MATERIAL CMTR	CERTS MISSING	MATERIAL SHIPPED TO ZACK CO., FLINT, MICH. FACILITY - MCN ON SITE LIST FROM MIDLAND	ESTABLISH ACCURACY OF SITE INFO.
466	TUBES & BAR ON G-3114	GALVANIZING CERT.	CERTS MISSING	ZACK COMPANY TO ACQUIRE CERT FROM RELIABLE GALVANIZING	N/A
470	H. R. ANGLES	GALVANIZING CERT.	CERTS MISSING	ZACK COMPANY TO ACQUIRE CERT FROM RELIABLE GALVANIZING	N/A
519	H. R. ANGLES	GALVANIZING CERT.	CERT MISSING	ZACK COMPANY TO ACQUIRE CERT FROM RELIABLE GALVANIZING	N/A
577	WASHERS	MATERIAL CMTR	C OF C ONLY NO REFERENCE TO STANDARD	ZACK COMPANY TO ACQUIRE CMTR FROM KEY-CREST, INC.	ENG. EVALUATION REQUIRED
582					
636	H. R. ANGLES	GALVANIZING CERT	GALVANIZING CERT MISSING	ZACK COMPANY TO ACQUIRE GALVANIZING CERT FROM RELIABLE GALVANIZING	N/A
722	H. R. ANGLES 1 1/2 x 1 1/2 x 1/8 2 x 2 x 3/16	MATERIAL CMTR	CERT MISSING	ZACK COMPANY TO ACQUIRE CMTR FROM NATIONAL METAL FABRICATORS	ENG. EVALUATION REQUIRED
785	H. R. ANGLES 1 1/2 x 1 1/2 x 3/16	MATERIAL CMTR	CERT MISSING	ZACK COMPANY TO ACQUIRE CMTR FROM NATIONAL METAL FABRICATORS	ENG. EVALUATION REQUIRED
801	H. R. ANGLE 4 x 3 x 1/4 (801-5)	GALVANIZING CERT	GALVANIZING CERT MISSING	ZACK COMPANY TO ACQUIRE CMTR FROM RELIABLE GALVANIZING	N/A
802	TUBING 1 x 1 x 1/8 (802-5)	MECHANICAL TEST DATA	MECHANICAL TEST DATA MISSING	ZACK COMPANY TO ACQUIRE CMTR WITH MECHANICAL DATA FROM EDGCOMB METALS	
1089	TUBING 6 x 4 x 1/2	MATERIAL CMTR	CERT MISSING	ZACK COMPANY TO ACQUIRE CMTR FROM CHICAGO TUBE & IRON	ENG. EVALUATION REQUIRED
4014	CARBON ARC STICKS TIP-DIP GEL	MATERIAL CMTR	CERT MISSING	ZACK COMPANY TO ACQUIRE CMTR FROM HOBART NORTH WELDING SUPPLY	ENG. EVALUATION REQUIRED

JOB: MIDLAND

CERTS MISSING

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P.O. No.	ITEM NO.	REQ'D DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
4034	SUPPLY REGISTERS	MATERIAL CMTR	CERT MISSING	ZACK COMPANY TO ACQUIRE CMTR FROM TUTTLE & BAILEY	ENG. EVALUATION REQUIRED
4100	COTTER PIN	MATERIAL CMTR	CERT MISSING - C OF C TO WRONG STD. ONLY	ZACK COMPANY TO ACQUIRE CMTR FROM DELTA SCREW COMPANY	ENG. EVALUATION REQUIRED
4102	THREADED ROD	MATERIAL CMTR	CERT MISSING - C OF C TO WRONG STD.	ZACK COMPANY TO ACQUIRE CMTR FROM MEDALIST REDI-BOLT COMPANY	ENG. EVALUATION REQUIRED
4267	CARBOLINE COATING	MATERIAL CMTR	CERT MISSING	ZACK COMPANY TO ACQUIRE CMTR FROM DANLEE DIVISION	ENG. EVALUATION REQUIRED
4334	THREADED ROD	MATERIAL CMTR	CERT MISSING - C OF C TO WRONG STD.	ZACK COMPANY TO ACQUIRE CMTR FROM DELTA SCREW COMPANY	ENG. EVALUATION REQUIRED
4331	FLAT WASHERS	MATERIAL CMTR	CERT MISSING C OF C ONLY	ZACK COMPANY TO ACQUIRE CMTR FROM M. E. THIELE COMPANY	ENG. EVALUATION REQUIRED
12303	THREADED ROD	MATERIAL CMTR	CERT MISSING - C OF C ONLY TO WRONG STD.	ZACK COMPANY TO ACQUIRE CMTR FROM KEY-CREST, INC.	ENG. EVALUATION REQUIRED
507	HEX BOLTS HEX NUTS	MATERIAL CMTR	CERT MISSING - C OF C ONLY AVAILABLE TO WRONG STD.	ZACK COMPANY TO ACQUIRE CMTR FROM SEAS	ENG. EVALUATION REQUIRED
575	BALANCING DAMPERS	MATERIAL CMTR	C OF C ONLY - CERTS ARE AVAILABLE TO USD. 1.51.h	ZACK COMPANY TO ACQUIRE CMTR FROM QUALITY AIR DESIGN AS NECESSARY	ENG. EVALUATION REQUIRED.
689	3 x 1/4 BAR FLANGES	MATERIAL CMTR	MISSING CERT	ZACK COMPANY TO ACQUIRE CMTR FROM NATIONAL METAL FABRICATORS.	ENG. EVALUATION REQUIRED.
867	867 867-2 867-3 867-6	GALVANIZING CERT.	MISSING CERT	ZACK COMPANY TO ACQUIRE CERT FROM RELIABLE GALVANIZING.	N/A

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CERTS MISSING

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P.O. No.	ITEM NO.	REQ'ED DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
1138	48 x 120 Sheet Steel	MATERIAL CMTR TO ASTM-A-366 72	CERT AVAILABLE TO ASTM A-607-75	ZACK COMPANY TO ACQUIRE CMTR TO ASTM A-366-72 FROM U.S. STEEL SUPPLY.	ENG. EVALUATION REQUIRED.
4021	VENTGLAS	MATERIAL CMTR	C OF C ONLY AVAILABLE	ZACK COMPANY TO ACQUIRE CMTR FROM VENTGLAS INC.	ENG. EVALUATION REQUIRED.
8314	15-3-137 15-3-146 ADHESIVE	MATERIAL CMTR	CERT MISSING	ZACK COMPANY TO ACQUIRE CMTR FROM KING ADHRSIVE CORP.	ENG. EVALUATION REQUIRED.
11503	POP RIVITS	MATERIAL CMTR	CERT MISSING	ZACK COMPANY TO ACQUIRE CMTR FROM HANLON EQUIPMENT COMPANY.	ENG. EVALUATION REQUIRED.
12982	SMALL RISER TEST KIT	MATERIAL CMTR	CERT MISSING	ZACK COMPANY TO ACQUIRE CMTR FROM AIR PRODUCTS EQUIPMENT COMPANY OR JUSTIFY NO NEED OF CERT.	ENG. EVALUATION REQUIRED.
13295	INSULATED ACCESS DOORS	MATERIAL CMTR	CERT MISSING	ZACK COMPANY TO ACQUIRE CMTR FROM ADDCO INC.	ENG. EVALUATION REQUIRED.

JOB: MIDLAND

MISC. HARDWARE

C OF C ONLY

PAGE 1 OF 3

P.O. No.	ITEM NO.	REQ'ED DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
589	# 6 GALV. STEEL WIRE	MATERIAL CMTR	C OF C AVAILABLE ONLY	ZACK COMPANY TO ACQUIRE CMTR FROM CENTRAL STEEL & WIRE COMPANY	ENG. EVALUATION REQUIRED
4001	ELCEN WELD BEAM ATTACH	MATERIAL CMTR	C OF C AVAILABLE ONLY	ZACK COMPANY TO ACQUIRE CMTR FROM ELCEN METAL PRODUCTS COMPANY	ENG. EVALUATION REQUIRED
4005	TEK SCREWS	MATERIAL CMTR	C OF C AVAILABLE ONLY	ZACK COMPANT TO ACQUIRE CMTR FROM ELCO INDUSTRIES, INC.	ENG. EVALUATION REQUIRED
4010	PHILLIPS WEDGE ANCHORS	MATERIAL CMTR	C OF C AVAILABLE ONLY	ZACK COMPANT TO ACQUIRE CMTR ITT - PHILLIPS DRILL DIVISION	ENG. EVALUATION REQUIRED
4021	VENTGLAS	MATERIAL CMTR	C OF C AVAILABLE ONLY	ZACK COMPANY TO ACQUIRE CMTR FROM VENTFABRICS, INC.	ENG. EVALUATION REQUIRED
4023	LOCKWASHERS	MATERIAL CMTR	C OF C AVAILABLE ONLY	ZACK COMPANY TO ACQUIRE CMTR FROM SEAS, INC.	ENG. EVALUATION REQUIRED
4028	PHILLIPS WEDGE ANCHORS	MATERIAL CMTR	C OF C AVAILABLE ONLY	ZACK COMPANY TO ACQUIRE CMTR FROM ITT - PHILLIPS DRILL DIVISION	ENG. EVALUATION REQUIRED
4046	PHILLIPS WEDGE ANCHORS	MATERIAL CMTR	C OF C AVAILABLE ONLY	ZACK COMPANY TO ACQUIRE CMTR FROM ITT - PHILLIPS DRILL DIVISION	ENG. EVALUATION REQUIRED
4048	TEK SCREWS	MATERIAL CMTR	C OF C AVAILABLE ONLY	ZACK COMPANY TO ACQUIRE CMTR FROM ELCO INDUSTRIES, INC.	ENG. EVALUATION REQUIRED
4186	SPHERICAL WASHERS	MATERIAL CMTR	C OF C AVAILABLE ONLY	ZACK COMPANY TO ACQUIRE CMTR FROM NORTHWESTERN TOOLS, INC.	ENG. EVALUATION REQUIRED
4354	BEAM CLAMP	MATERIAL CMTR	C OF C AVAILABLE ONLY	ZACK COMPANY TO ACQUIRE CMTR FROM ELCEN METAL PRODUCTS COMPANY	ENG. EVALUATION REQUIRED
4184	VENTLOK DOORS	MATERIAL CMTR	C OF C AVAILABLE ONLY	ZACK COMPANY TO ACQUIRE CMTR FROM VENTFABRICS, INC.	ENG. EVALUATION REQUIRED
4060	WELD BEAM ATTACHMENT	MATERIAL CMTR	C OF C AVAILABLE ONLY	ZACK COMPANY TO ACQUIRE CMTR FROM ELCEN METAL PRODUCTS COMPANY	ENG. EVALUATION REQUIRED

JOB: MIDLAND

MISC. HARDWARE

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P.O. No.	ITEM NO.	REQ'ED DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
4064	WELD ATTACHMENT	MATERIAL CMTR	C OF C AVAILABLE ONLY	ZACK COMPANY TO ACQUIRE CMTR FROM ELCEN METAL PRODUCTS COMPANY	ENG. EVALUATION REQUIRED
4069	EYE SOCKET	MATERIAL CMTR	C OF C AVAILABLE ONLY	ZACK COMPANY TO ACQUIRE CMTR FROM ELCEN METAL PRODUCTS COMPANY	ENG. EVALUATION REQUIRED
4075	C - CLAMP	MATERIAL CMTR	C OF C AVAILABLE ONLY	ZACK COMPANY TO ACQUIRE CMTR FROM ELCEN METAL PRODUCTS COMPANY	ENG. EVALUATION REQUIRED
4445	LOCK WASHERS	MATERIAL CMTR	C OF C AVAILABLE ONLY	ZACK COMPANY TO ACQUIRE CMTR FROM DELTA SCREW	ENG. EVALUATION REQUIRED
12310	BEAM ATTACHMENT - ROD COUPLING	MATERIAL CMTR	C OF C AVAILABLE ONLY	ZACK COMPANY TO ACQUIRE CMTR FROM ELCEN METAL PRODUCTS COMPANY	ENG. EVALUATION REQUIRED
12311	HILTI DROP-IN ANCHORS	MATERIAL CMTR	C OF C AVAILABLE ONLY	ZACK COMPANY TO ACQUIRE CMTR FROM HILTI, INC.	ENG. EVALUATION REQUIRED
13206	C - CLAMP WITH LOCK NUT	MATERIAL CMTR	C OF C AVAILABLE ONLY	ZACK COMPANY TO ACQUIRE CMTR FROM ELCEN METAL PRODUCTS COMPANY	ENG. EVALUATION REQUIRED
13237	PHILLIPS WEDGE ANCHOR	MATERIAL CMTR	C OF C AVAILABLE ONLY	ZACK COMPANY TO ACQUIRE CMTR FROM ITT - PHILLIPS DRILL DIVISION	ENG. EVALUATION REQUIRED
13244	C - CLAMP EYE - SOCKETS	MATERIAL CMTR	C OF C AVAILABLE ONLY	ZACK COMPANY TO ACQUIRE CMTR FROM ELCEN METAL PRODUCTS COMPANY	ENG. EVALUATION REQUIRED
13255	TEK SCREWS	MATERIAL CMTR	C OF C AVAILABLE ONLY	ZACK COMPANY TO ACQUIRE CMTR FROM ELCO INDUSTRIES, INC.	ENG. EVALUATION REQUIRED
13263	EYE SOCKET	MATERIAL CMTR	C OF C AVAILABLE ONLY	ZACK COMPANY TO ACQUIRE CMTR FROM ELCEN METAL PRODUCTS COMPANY	ENG. EVALUATION REQUIRED
13268	TEK SCREWS	MATERIAL CMTR	C OF C AVAILABLE ONLY	ZACK COMPANY TO ACQUIRE CMTR FROM ELCO INDUSTRIES, INC.	ENG. EVALUATION REQUIRED
13275	EYE SOCKETS	MATERIAL CMTR	C OF C AVAILABLE ONLY	ZACK COMPANY TO ACQUIRE CMTR FROM ELCEN METAL PRODUCTS COMPANY	ENG. EVALUATION REQUIRED

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P.O. No.	ITEM NO.	REQ'D DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
13289	THREADED ROD	MATERIAL CMTR	C OF C AVAILABLE ONLY	ZACK COMPANY TO ACQUIRE CMTR FROM KEY-CREST, INC.	ENG. EVALUATION REQUIRED
13247	HEX SCREWS HEX NUTS	MATERIAL CMTR	C OF C AVAILABLE ONLY	ZACK COMPANY TO ACQUIRE CMTR FROM KEY-CREST, INC.	ENG. EVALUATION REQUIRED
4100	COTTER PINS	MATERIAL CMTR	C OF C to wrong standard	ZACK COMPANY TO ACQUIRE CMTR FROM DELTA SCREW COMPANY	ENG. EVALUATION REQUIRED
4221	THREADED ROD WASHERS	MATERIAL CMTR	C OF C only to wrong standard for washers	ZACK COMPANY TO ACQUIRE CMTR FROM DELTA SCREW COMPANY	ENG. EVALUATION REQUIRED
4246	WELDING ELECTRODE	MATERIAL CMTR (typical)	C OF C for voided P.O.	ZACK COMPANY TO ACQUIRE CMTR FROM HOBART NORTH WELDING SUPPLY	ENG. EVALUATION REQUIRED
4262	LOCK WASHERS	MATERIAL CMTR	C OF C Only to wrong standard	ZACK COMPANY TO ACQUIRE CMTR FROM DELTA SCREW COMPANY	ENG. EVALUATION REQUIRED
4286	HEX CAP SCREW	MATERIAL CMTR	C OF C AVAILABLE ONLY	ZACK COMPANY TO ACQUIRE CMTR FROM DELTA SCREW COMPANY	ENG. EVALUATION REQUIRED

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P.O. No.	ITEM NO.	REQ'D DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
704	ANGLE RINGS	CMTR	CMTR MISSING FOR 3 x 3 x 1/4" ANGLE	ZACK TO PURSUE OBTAINING CMTR FROM U.S. STEEL.	ENG. REVIEW REQUIRED.
666	ANGLE CHANNEL	CMTR-MATERIAL CMTR-GALV.	CMTR FOR GALVANIZING MISSING	GALVANIZING CMTR INCLUDED IN P.O. No. 668	N/A
801	ANGLE	CMTR-MATERIAL CMTR-GALV.	CMTR FOR GALVANIZING 4 x 3 x 1/4" ANGLE MISSING.	ZACK TO PURSUE CMTR FOR GALV. FROM RELIABLE GALVANIZING.	N/A
802	1" SQUARE TUBING	CMTR-MATERIAL	CMTR-MATERIAL DOES NOT INCLUDE PHYSICAL TEST.	1" T.S. ANCHORS DOES NOT REQUIRE PHYSICAL TESTING.	N/A
1135	1 1/2 x 1 1/2 x 1/4 ANGLE	CMTR-MATERIAL CMTR-GALV.	CMTR'S MISSING C OF C FOR MATERIAL AND GALV. INCLUDED.	ZACK COMPANY TO PURSUE CMTR - MATERIAL AND CMTR GALV.	ENG. REVIEW REQUIRED.
1177	W10 x 17 BEAM	CMTR-MATERIAL CMTR-GALV.	CMTR-GALV. MISSING FOR ITEM 1177-1 ONLY.	ZACK COMPANY TO PURSUE CORRECTED DOCUMENTS.	N/A
3114	SQUARE TUBING	CMTR-MATERIAL CMTR-GALV.	CMTR-GALVANIZING MISSING	CMTR-GALV. INCLUDED IN P.O. NO. 446	N/A

STRUCTURAL SHAPES

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P.O. No.	ITEM NO.	REQ'D DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
4427	1/2" Ø THINWALL CONDUIT	CMTR-MATERIAL CMTR-GALV.	NO CMTR ON FILE C OF C MATERIAL ON FILE	ZACK COMPANY TO ATTEMPT TO OBTAIN CMTR'S ON MATERIAL AND GALVANIZING.	ENG. REVIEW REQUIRED.
850	1/2" Ø THINWALL CONDUIT	CMTR-MAT CMTR-GALV	NO CMTR ON FILE OF C MATERIAL ON FILE	ZACK COMPANY TO ATTEMPT TO OBTAIN CMTR'S ON MATERIAL AND GALVANIZING.	ENG. REVIEW REQUIRED.
1048	3/8" x 8" flat bar	CMTR-MATERIAL CMTR-GALVANIZED	CMTR MATERIAL IS MISSING PHYSICAL TESTING.	ZACK COMPANY TO PURSUE CORRECTED CMTR INCLUDING PHYSICAL TEST INFORMATION.	ENG. REVIEW REQUIRED.
711	1/2" x 10" BAR	CMTR-MATERIAL CMTR-GALV.	CHEMICAL TESTS DO NOT MEET A36 REQUIREMENT.	CARBON IS .08% LOW.	ENG. REVIEW REQUIRED.

P.O. No.	ITEM NO.	REQ'D DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
817	Huck bolts	C of C-mat'l C of C-galv.	C of C-mat'l no physical tests C of C-galv. missing	Mat'l - chem. does not meet A307 No. mechanical tests Galv - will pursue galv. cert.	Engineering review required.
4004	Cap screws & washers	C of C-mat'l C of C-galv.	Washers certified to A307 - A307 is not washer spec	Zack to pursue corrected C of C for washers indicating correct spec.	Engineering review required.
4116	Hex Hd. bolts & nuts	C of C-mat'l C of C-galv.	C of C-galv. does not specify ASTM A153-D	Zack to pursue corrected C of C-galv	N/A
4122	Tek screws	C of C-mat'l C of C-galv.	C of C-galv- missing	Zack to pursue corrected documents C of C - galv.	N/A
4137	Bolts Washers Nuts	C of C-mat'l C of C-galv.	C of C mat'l ref. A307 for nuts & washers	Zack to pursue corrected C of C for nuts & washers to proper spec.	Engineering review required.
4178	Huck bolts	C of C-mat'l C of C-galv.	C of C-mat'l C of C-galv. not addressed to Zack	Zack to acquire correct C of C-mat'l and C of C-galv.	N/A
4262	1/2" lockwashers	C of C-mat'l C of C-galv.	C of C-mat'l lists ASTM A307 as spec. A307 is not spec for lockwashers	Zack to acquire corrected C of C mat'l	Engineering review required.

JOB: CLINTON

BOLTS, NUTS, ETC.

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P.O. No.	ITEM NO.	REQ'ED DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
12257	3/8" dia. bolts, washers, nuts	C of C-mat'l C of C-galv.	C of C galv. missing C of C-mat'l ref. A307 for washers & nuts	Zack to pursue corrected C of C-mat'l to ref. proper spec for washers and nuts, and C of C for galv.	Engineering review required.
12256	1/2" dia. bolts & nuts	C of C-mat'l C of C-galv.	C of C-galv. missing C of C-mat'l ref. A307 for nuts	Zack to pursue C of C-galv. and corrected C of C for nuts to ref. proper spec.	Engineering review required.
12265	3/8" and 1/2" dia. bolts and nuts	C of C-mat'l C of C-galv.	C of C galv. missing C of C mat'l ref. A307 for nuts	Zack to pursue C of C-galv. and corrected C of C mat'l to ref. proper spec for nuts	Engineering review required.
12279	1/4", 3/8" & 1/2" dia. bolts and nuts	C of C-mat'l C of C-galv.	C of C galv. missing C of C mat'l ref. wrong info for nuts and washers	Zack to pursue C of C galv. and corrected C of C-mat'l for nuts	Engineering review required.
4017	Tek screws	C of C-mat'l C of C-galv.	C of C-galv. missing	Zack to pursue C of C galv.	N/A
4055	1/2" dia. bolts & nuts	C of C-mat'l C of C-galv.	C of C galv. missing C of C-mat'l ref. A307 for nuts	Zack to pursue C of C galv. and corrected C of C-mat'l to ref. proper spec. for nuts	Engineering review required.
4081	Tek screws	C of C-mat'l C of C-galv.	C of C galv. missing	Zack to pursue C of C-galv.	N/A

JOB: CLINTON

BOLTS, NUTS, ETC.

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P.O. No.	ITEM NO.	REQ'D DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
4171	Tek screws	C of C-mat'l C of C-galv.	C of C - galv. missing	Zack to pursue C of C galv.	N/A
17011	Phillips head sht. screws S. Stl.	C of C-mat'l	C of C does not ref. ASTM spec.	Zack to pursue C of C mat'l that references proper ASTM spec.	Engineering review required.
547	Huck bolts	C of C-mat'l	C of C references AISI 1035M	Zack to pursue corrected C of C that references proper ASTM spec.	Engineering review required.
4252	Hilti bolts & nuts	C of C-mat'l	C of C references ASTM A307-7 for nuts	Zack to pursue corrected C of C to ref. correct ASTM spec. for nuts	Engineering review required.
4406	3/8" dia. bolts	C of C-mat'l C of C-galv.	OK	OK	N/A
4455	A307 bolts	C of C-mat'l C of C-galv.	OK	OK	N/A
4209	pop rivets	C of C-mat'l	OK	OK	N/A

P.Q. No.	ITEM NO.	REQ'ED DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
787	429 430 431 432	CMTR-mat'l CMTR-galv.	No CMTR on file for galvanizing	Zack to pursue galv. cert. from Inland Steel	N/A
789	423 424 425	CMTR-mat'l CMTR-galv.	Galv. CMTR missing	Zack to pursue galv. cert. from Inland Steel	N/A
1108	1/4" plate	CMTR-mat'l	CMTR-mat'l missing	Zack to pursue CMTR-mat'l	Engineering review required.
823	Galv. sheets	CMTR-mat'l CMTR-galv.	CMTR-mat'l has been altered. Info blocked out, signature blocked out, and resigned.	Zack to pursue corrected CMTR-mat'l	N/A
846	1/2" plate	CMTR-mat'l	No signature on CMTR. Elongation does not meet ASTM A36-14	Zack to pursue properly signed CMTR-mat'l	Engineering review required.
861	Galv. sheets	CMTR-mat'l CMTR-galv.	CMTR-mat'l, no chemical analysis. CMTR-galv. missing	Zack to pursue CMTR galv. and CMTR mat'l to include chemical test.	Engineering review required.
912	462 500 463 501 482 502 499	CMTR-mat'l CMTR-galv.	No physical tests done.	Zack to pursue corrected CMTR's to include physical tests.	Engineering review required.

P.O. No.	ITEM NO.	REQ'D DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
913	464 465 466 481	CMTR-mat'l CMTR-galv.	No physical tests for coils 464,465,466 No mat'l spec ref. coil 481	Zack to pursue corrected CMTR's to include physical tests	Engineering review required.
9409	136 180 181	CMTR-mat'l CMTR-galv.	No physical test reports	Zack to pursue corrected CMTR's to include physical test info.	Engineering review required.
9410	113 114 115 116	CMTR-mat'l CMTR-galv.	No physical test reports.	Zack to pursue corrected CMTR's to include physical test info.	Engineering review required.
9411	149 150	CMTR-mat'l CMTR-galv.	No physical test reports.	Zack to pursue corrected CMTR's to include physical test info.	Engineering review required.

P.O. No.	ITEM NO.	REQ'D DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
561	Grilles Registers Diffusers	Report of qualifications of seismic analysis	No report of qualifications of seismic analysis	Seismic analysis reports are on file in engineering	N/A
4223	Acetone	C of C-mat'l	No C of C-mat'l	No C of C should be required. Material composition is included in M.S.D.'s on file.	Engineering review required.
4423	Norton V986 Sealant	C of C-mat'l	V986 not on Clinton mat'l list	Zack has been using V986 as well as V988 + V780 series	Engineering review required..
12127	Brock Tool Hoisting Equipment	Mfg. Cert on Hoisting Equipment	Mfg. Cert missing	Zack to pursue mfg. cert.	N/A
13309*	Micrometer	Mfg. Cert of calibration	Mfg. Cert of calibration is missing	Zack to pursue mfg. Cert of calibration. Zack calibration records for said tool will be reviewed to verify compliance.	N/A
4202	.035" dia. Hobart weld wire	CMTR mat'l	OK	OK	N/A
4130	3/32" dia. electrode	CMTR mat'l	OK	OK	N/A

P.O. No.	ITEM NO.	REQ'D DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
4350	Norton V988 Sealant	C of C-mat'l	OK	OK	N/A
4411	Weld Coupons	CMTR mat'l CMTR galv	OK	OK	N/A
16330	4" dia. Wire brush wheels	No require- ment stated.	None	None	N/A
552	Steam humidifier	Cert. of conformance to spec, codes etc.	No certs on file	Zack to pursue certifications	Engineering review required.
559	Diffusers Terminal control units	Cert. of conformance to spec, codes etc.	No certs on file	Zack to pursue certifications	Engineering review required.

P.O. No.	ITEM NO.	REQ'ED DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
565	PHILLIPS ANCHORS	C of C MATERIAL	NONE	6/30/78 COM. ED. LETTER DELETED CNTR REQUIREMENT.	N/A
567	BEAM ATTACHMENTS	C of C MATERIAL	NONE	N/A	N/A
597	3/8" Ø HEX H.D. CAP SCREWS	C OF C MATERIAL C OF C GALV.	C OF C GALV. MISSING ZACK P.O. MISSING	ZACK TO PURSUE C OF C GALV. ZACK COMPANY TO INCLUDE COPY OF P.O.	N/A
4004	3/8" Ø CAP SCREWS 3/8" FLAT WASHERS	C OF C MATERIAL C OF C GALV.	C OF C GALV MISSING C OF C MATERIAL REF. A307 FOR FLAT WASHERS.	ZACK TO PURSUE C OF C GALV. AND CORRECTED C OF C MATERIAL TO REFERENCE PROPER ASTM SPEC. FOR FLAT WASHERS.	ENG. REVIEW REQUIRED
4023	1/4" Ø LOCK WASHERS	C OF C MATERIAL C OF C GALV.	C OF C GALV. MISSING C OF C MATERIAL DOES NOT REF. ASTM SPEC.	ZACK COMPANY TO PURSUE C OF C GALV. AND CORRECTED C OF C MATERIAL TO REFERENCE ASTM SPEC.	ENG. REVIEW REQUIRED
4036	HILTI FASTENERS	C OF C MATERIAL	NONE	N/A	N/A
4052	POP RIVETS	C OF C MATERIAL	C OF C MATERIAL DOES NOT REFERENCE ANY STANDARDS	ZACK COMPANY TO PURSUE CORRECTED C OF C MATERIAL.	ENG. REVIEW REQUIRED

JOB: LA SALLE

FASTENERS

P.C. No.	ITEM NO.	REQ'D DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
4055	1/4" Ø HEX BOLTS HEX NUTS	C OF C MATERIAL I.L.L. C OF C GALV.	C OF C GALV. MISSING C OF C MATERIAL DOES NOT REF. SEPARATE ASTM SPEC. FOR NUTS.	ZACK COMPANY TO PURSUE C OF C GALV. AND CORRECTED C OF C MATERIAL TO REF. CORRECT SPEC.	ENG. REVIEW REQUIRED.
4080	3/8" Ø NUTS & BOLTS	C OF C MATERIAL C OF C GALV.	C OF C GALV. MISSING C OF C MATERIAL REF. WRONG ASTM SPEC FOR NUTS.	ZACK COMPANY TO PURSUE C OF C GALV AND CORRECTED C OF C MATERIAL REF. CORRECT ASTM SPEC. FOR NUTS.	ENG. REVIEW REQUIRED.
4081	TEX SCREWS	C OF C MATERIAL C OF C GALV.	C OF C GALV. MISSING	ZACK COMPANY TO PURSUE C OF C GALV.	N/A
4424	HILTI QWIK BOLTS	C OF C MATERIAL REF. ASTM A307 FOR NUTS.	C OF C MATERIAL REF. ASTM A307 FOR NUTS.	ZACK COMPANY TO PURSUE CORRECTED C OF C TO REF. CORRECT ASTM SPEC. FOR NUTS.	ENG. REVIEW REQUIRED.
12206	BOLTS, NUTS & WASHERS	C OF C MATERIAL C OF C GALV.	C OF C GALV. MISSING C OF C MATERIAL REF. WRONG, ASTM FOR NUTS AND WASHERS.	ZACK COMPANY TO PURSUE C OF C GALV. AND CORRECTED C OF C MATERIAL TO REF. CORRECT ASTM FOR NUTS.	ENG. REVIEW REQUIRED.
13246	3/8" Ø THREADED ROD	C OF C MATERIAL C OF C GALV.	C OF C GALV. MISSING	ZACK COMPANY TO PURSUE C OF C GALV.	N/A

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P.O. No.	ITEM NO.	REQ'D DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
1127	ANGLE RINGS	CMTR GALV. CMTR MATERIAL	NONE		
1048	FLAT BARS	CMTR-MATERIAL CMTR-GALV.	CMTR MATERIAL INCOMPLETE FOR 1 ITEM, NO PHYSICAL TEST.	ZACK COMPANY TO PURSUE COMPLETED CMTR MATERIAL	ENG. REVIEW REQUIRED.
1046	ANGLE RINGS	CMTR MATERIAL CMTR GALV.	NONE	N/A	N/A
952	ANGLE RINGS	CMTR MATERIAL CMTR GALV.	NONE	N/A	N/A
804	SQUARE TUBING	CMTR MATERIAL CMTR GALV.	None	N/A	N/A
711	MISCELLANEOUS SHAPES	CMTR MATERIAL CMTR GALV.	None	N/A	N/A
617	SHAPES AND BARS	CMTR MATERIAL CMTR GALV.	VARIOUS CMTR PROBLEMS SIGNATURES MISSING, ASTM SPEC. NOT LISTED	ZACK COMPANY TO PURSUE CORRECT CMTR'S	ENG. REVIEW REQUIRED.

MISCELLANEOUS

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P.O. No.	ITEM NO.	REQ'D DOC.	DOC. DISCREPANCY	COMMENT	PROPOSED RESOLUTION
582	VENT GLASS	C OF C MATERIAL	C OF C MATERIAL NOT ON FILE	ZACK COMPANY TO PURSUE C OF C MATERIAL	ENG. REVIEW REQUIRED
4016	#732 BLACK SILASTIC	C OF C MATERIAL	NONE	N/A	N/A
4077	FIRE AND BALANCING DAMPERS	CMTR MATERIAL	CMTR MATERIAL MISSING	ZACK TO PURSUE CMTR MATERIAL	ENG. REVIEW REQUIRED.
4104	ZRC COLD GALV. COMPOUND	C OF C MATERIAL	NONE	N/A	N/A
4165	ZRC COLD GALV. COMPOUND	C OF C MATERIAL	NONE	N/A	N/A
13207	SLIP-ON WELD FLANGES	CMTR MATERIAL	NO CMTR-ONLY C OF C	ZACK COMPANY TO PURSUE CMTR	ENG. REVIEW REQUIRED.

P.O. No.	ITEM NO.	REQ'ED DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
C470	H.R. Angles 2 x 2 x 3/16 2 x 2 x 1/4	Material CMTR Gal. CMTR	Gal. CMTR in No. C471	N/A	N/A
C474	16 ga. H.R. sheets	Material CMTR	No Material CMTR	Zack Company to acquire material CMTR from U. S. Steel Supply.	Eng. resolution required.
C520	6" x 6" x 3/8" angle	Material CMTR Gal. CMTR	Material CMTR needs date designation. No Gal. CMTR	Zack Company to acquire corrected material CMTR from J & L. Zack Company to acquire Gal. CMTR from Reliable.	N/A
C572	3/4" Gal. Pipe Couplings.	Material CMTR Gal. CMTR	No CMTR's	Zack to acquire CMTR's from Fred C. Kraher Company.	Eng. resolution required.
C605	2" x 2" x 3/16" H.R. angle	Material CMTR Gal. CMTR	Material CMTR needs ASTM designation. Gal. CMTR in #607	Zack Company to acquire corrected material CMTR from Calumet Steel Co.	N/A
C627	2 1/2 x 2 1/2 x 3/16" H.R. Angle	Material CMTR Gal. CMTR	Material CMTR needs ASTM and date designation. Gal. CMTR in #628	Zack Company to acquire corrected material CMTR from J & L.	N/A
C636	2 x 2 x 1/8" H. R. Angles	Material CMTR Gal. CMTR	Material CMTR needs ASTM designation.	Zack Company to acquire corrected material CMTR from Northwestern Steel and Wire Company.	N/A

P.O. No.	ITEM NO.	REQ'D DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
C637	3 x 3 x 1/4" H.R. Angles	Material CMTR Gal. CMTR	Material CMTR needs ASTM designation.	Zack Company to acquire corrected material CMTR from Northwestern Steel and Wire Company 1/12/78	N/A
C642	.097 x 48" Gal. Coil	Material CMTR	Material CMTR needs ASTM designation.	Zack Company to acquire corrected material CMTR from Eth. Steel Corp. 1/12/78	N/A
C645	2 x 2 x 3/16" Angle	Material CMTR Gal. CMTR	Material CMTR needs ASTM designation. Gal. CMTR in #638	Zack Company to acquire corrected material CMTR from Calumet Steel Co. 1/12/78	N/A
C658	1 1/2 x 1 1/2 x 1/8" H. R. Angle	Material CMTR Gal. CMTR	Material CMTR needs ASTM designation.	Zack Company to acquire material CMTR from Calumet Steel Company. 2/28/78	N/A
C666	1 1/2 x 1 1/2 x 1/8 Angle 3" x 5" channel	Material CMTR Gal. CMTR	O.K.	N/A	N/A
C683	Flats 1/2 x 2" Item 101	Material CMTR	Material CMTR needs ASTM designation.	Zack Company to acquire corrected material CMTR from Edgcomb Metals 6/16/78	N/A
C683	Flats 3/4 x 2 3/4" Item 102	Material CMTR	Material CMTR needs Phys. on cuts.	Zack Company to acquire corrected CMTR from Edgcomb Metals. 6/16/78	Eng. resolution required.

P.O. No.	ITEM NO.	REQ'ED DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
C683	Flats 1 3/4 x 2 3/4" Item 103	Material CMTR	Material CMTR needs Phys. on cert.	Zack Company to acquire corrected CMTR from Edgcomb Metals. 6/16/78	Eng. resolution required.
C683	Squares 2" x 2" Item No. 104	Material CMTR	Material CMTR needs Phys. on cert.	Zack Company to acquire corrected CMTR from Edgcomb Metals. 6/16/78	Eng. resolution required.
C683	Flats 3/4 x 3 3/4" Item 106	Material CMTR	Material CMTR needs ASTM date.	Zack Company to acquire corrected CMTR from Edgcomb Metals. 6/16/78	N/A
C684	3" x 3" x 1/4" H.R. Angle	Material CMTR Gal. CMTR	O.K.	O.K. 5/19/78	N/A
C704	Angle Rings	Material CMTR	Material CMTR needs ASTM designation.	Zack Company to acquire corrected material CMTR from Northwestern Steel. 6/9/78	N/A
C704	Angle rings	Material CMTR Gal. CMTR	No material CMTR	Zack Company to acquire material CMTR from U. S. Steel. 6/9/78	Eng. resolution required.
C711		Material CMTR Gal. CMTR	Material CMTR needs Phys. and ASTM design- nation.	Zack Company acquires corrected material CMTR (various suppliers). 7/17/78	Eng. resolution required.

P.O. No.	ITEM NO.	REQ'D DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
C722	Angle Rings	Material CMTR Gal. CMTR	Material CMTR needs ASTM designation on various items, no CMTR on other items.	Zack Company to acquire corrected material CMTR's and acquire CMTR's where needed. 8/14/78	Eng. resolution required.
C736	Angle Rings	Material CMTR Gal. CMTR.	Material CMTR needs ASTM designation and signature.	Zack Company to acquire corrected material CMTR's from National Metal Fab. 9/25/78	N/A
C790	Gal. Coils	Material CMTR	No Gal. ref. on CMTR	Zack Company to acquire corrected material CMTR from Inland Steel Company.	N/A
C793	Angle Rings	Material CMTR	O.K.	N/A	N/A
C798	20 ga. 36 x 12" sheets	Material CMTR Gal. CMTR	No material or Gal. CMTR.	Zack Company to acquire material and Gal. CMTR from Harrington & King Co.	Eng. resolution required.
C813	3 x 3 x 3/8 angle	Material CMTR Gal. CMTR	Material CMTR needs ASTM designation.	Zack Company to acquire corrected material CMTR from Edgcomb Metals. 3/7/79	N/A
G111	Angles and Channel	Material CMTR Gal. CMTR	Material CMTR needs ASTM designation and date.	Zack Company to acquire corrected material CMTR from J & L and North-western.	N/A

P.O. No.	ITEM NO.	REQ'D DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
G 3114	Sq. Tubing and Flat Bar	Material CMTR Gal. CMTR	Material CMTR needs ASTM designation and date.	Zack Company to acquire correct material CMTR's from J & L.	N/A
C4014	Carbon ARC Tip Dip Gel.	N/A	N/A	N/A	N/A
C4044	Weld Wire	Material CMTR	N/A	N/A	N/A
C4092	Weld Wire	Material CMTR	N/A	N/A	N/A
C4105	Studs Nuts Washer	Material CMTR, C-C. Zinc plated CMTR	C of C to wrong std. No zinc certs. No. CMTR for washers	Zack Company to acquire CMTR's for Zinc plating and washers. Also corrected C of C from Key-Crest, Inc.	Eng. resolution required
C4108	14 ga. wire mesh	Material CMTR C of C Gal. CMTR	P.O. does not reflect requirements for material.	Zack Company to recommend to use as is.	Eng. resolution not required at this time.
C4137	Ft. Washers Hex Nuts Hex Bolts	C of C	P.O. and C of C to wrong std.	Zack Company to recommend to use as is.	Eng. resolution not required at this time.

F.O. No.	ITEM NO.	REQ'D DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
C4143	WELD WIRE	O.K.	N/A	N/A	N/A
C4268	CARBON ARC, WELD WIRE	WELD WIRE CMTR	N/A	N/A	N/A
C4337	CAP SCREWS, HEX NUTS FLAT WASHERS.			DOCUMENTATION AVAILABLE, NEED CLARIFICATION ON TEC. SPEC.	N/A
C4348	POP RIVETS	C OF C	C OF C DOES NOT HAVE A SIGNATURE, CC LIST WRONG QUANTITY.	NEED TEC SPEC, CLARIFICATION ON LIST OF ACCEPTABLE MATERIALS.	N/A
C4455	HEX NUTS JAM NUTS	C OF C MATERIAL CMTR	O.K.	CMTR REPORTS O.K. FOR CLINTON. FOR MIDLAND ZACK COMPANY RECOMMEND TO USE AS IS.	ENG. RESOLUTION NOT REQUIRED AT THIS TIME.
C5776	GAL. COILS	MATERIAL CMTR	MATERIAL CMTR NEEDS PHYS. NO CERTS.	ZACK COMPANY TO ACQUIRE CORRECT MATERIAL CMTR'S, ZACK COMPANY TO ACQUIRE CMTR'S FROM NATIONAL STEEL CORPORATION.	ENG. RESOLUTION REQUIRED.
C9242	3 x 3 x 1/4 H.R. ANGLE	MATERIAL CMTR GAL. CMTR	NO GAL. CMTR	ZACK COMPANY TO ACQUIRE GAL. CMTR FROM RELIABLE.	N/A

P.O. No.	ITEM NO.	REQ'D DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
C9427	H. R. ANGLES H. R. CHANNEL	MATERIAL CMTR GAL. CMTR	MATERIAL CMTR NEEDS ASTM YEAR. GAL. CMTR ON No. 9428	ZACK COMPANY TO ACQUIRE CORRECTED MATERIAL CMTR FROM NORTHWESTERN STEEL AND WIRE.	N/A
C9441	H. R. ANGLES	MATERIAL CMTR GAL. CMTR	MATERIAL CMTR NEEDS ASTM YEAR. GAL. CMTR IN #9443	ZACK COMPANY TO ACQUIRE MATERIAL CMTR COR- RECTION FROM CALUMNET STEEL COMPANY	
C9447	H. R. ANGLES	MATERIAL CMTR GAL. CMTR	O.K.	O.K.	N/A
C9455	GAL. ANGLE	MATERIAL CMTR	MATERIAL CMTR DOES NOT SHOW GALV.	ZACK COMPANY TO ACQUIRE CORRECTED CMTR TO SHOW GALVANIZING.	N/A
C12303	THREADED ROOS	MATERIAL CMTR C OF C	NO MATERIAL CMTR	MATERIAL ACCEPTABLE FOR CLINTON ONLY. ZACK COMPANY TO REQUEST TO USE AS IS FOR LA SALLE.	ENG. RESOLUTION NOT REQUIRED AT THIS TIME.
C12346	ANGLE RINGS	MATERIAL CMTR GALV. CMTR	NO MATERIAL CMTR NO GALV. CMTR.	ZACK TO ACQUIRE CMTR'S FROM NATIONAL METAL FABRICATORS.	ENG. RESOLUTION REQUIRED.
C549	J-BOLTS LOCK WASHERS NUTS	MATERIAL CMTR C OF C	NO MATERIAL CMTR NO C OF C	ZACK COMPANY TO ACQUIRE CMTR'S FROM CRAWFORD MANUFACTURING COMPANY	ENG. RESOLUTION REQUIRED.

JOB: LA SALLE

PAGE 6 OF 10

P.O. No.	ITEM NO.	REQ'D DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
C563	FANS	CMTR C OF C	NO CMTR/OR C OF C	ZACK COMPANY TO ACQUIRE CMTR AN C OF C FROM AIR MONITORS INC.	ENG. RESOLUTION REQUIRED.
C583	DRIVE CLEATS	CMTR C OF C	NO CMTR/OR C OF C	ZACK COMPANY TO ACQUIRE CMTR AND C OF C FROM CLEATS MFG. COMPANY	ENG. RESOLUTION REQUIRED.
C584	DRIVE CLEATS	CMTR C OF C	NO CMTR OR C OF C	ZACK COMPANY TO ACQUIRE CMTR/C OF C FROM CLEATS MFG. COMPANY.	ENG. RESOLUTION REQUIRED.
C586	PUCK SEALER	C OF C	NO C O' C	ZACK COMPANY TO ACQUIRE C OF C FROM HANLON EQUIPMENT COMPANY.	ENG. RESOLUTION REQUIRED.
C773	H. R. ANGLES	MATERIAL CMTR GALV. CMTR	CMTR NO GOOD FOR LASALLE A36	ZACK COMPANY TO RECOMMEND TO USE AS IS.	ENG. RESOLUTION NOT REQUIRED AT THIS TIME.
C775	H. R. ANGLES	MATERIAL CMTR GALV. CMTR	DITTO	DITTO	DITTO
C9422	MON Q FANS	C OF C	NO C OF C	DITTO	DITTO

JOB: LA SALLE

P.O. No.	ITEM NO.	REQ'ED DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
C676	S.S. COIL	CMTR	CMTR SPEC. NO GOOD FOR LA SALLE.	DITTO	DITTO
C801	ANGLES CHANNELS BARS	CMTR MATERIAL CMTR GALV.	MATERIAL CMTR CAN NOT BE USED FOR LA SALLE, NO ASTM DATE NO GALV. CMTR.	ZACK COMPANY TO ACQUIRE CMTR FOR GALV. ZACK COMPANY TO RECOMMEND TO USE AS IS. ZACK COMPANY TO ACQUIRE CORRECTED CMTR FOR ASTM DATE.	ENG. RESOLUTION REQUIRED.
C807	H. R. ANGLE	MATERIAL CMTR GALV. CMTR	CMTR SPEC. CAN NOT BE USED FOR LA SALLE.	ZACK COMPANY TO RECOMMEND TO USE AS IS.	ENG. RESOLUTION NOT REQUIRED AT THIS TIME.
C826	H. R. ANGLES	MATERIAL CMTR GALV. CMTR	CMTR SPEC. CAN NOT BE USED ON LA SALLE.	ZACK COMPANY TO RECOMMEND TO USE AS IS	ENG. RESOLUTION NOT REQUIRED AT THIS TIME.
C1094	PLATE	MATERIAL CMTR	CMTR SPEC. CAN NOT BE USED ON LA SALLE. NO SIGNATURE ON CMTR.	ZACK COMPANY TO RECOMMEND TO USE AS IS. ZACK COMPANY TO ACQUIRE CORRECTED CMTR.	ENG. RESOLUTION NOT REQUIRED AT THIS TIME.
C1102	PLATE	MATERIAL CMTR	CMTR SPEC. CAN NOT BE USED ON LA SALLE. SIGNATURE ON CMTR DOES NOT AGREE.	ZACK COMPANY TO RECOMMEND TO USE AS IS.	ENG. RESOLUTION NOT REQUIRED AT THIS TIME.
C4464	HILTI BOLTS	MATERIAL CMTR GALV. CMTR	CMTR SPEC. CAN NOT BE USED ON LA SALLE.	ZACK COMPANY TO RECOMMEND TO USE AS IS.	DITTO

JOB: LASALLE

P.O. No.	ITEM NO.	REQ'D DOC.	DOC. DISCREPANCY	COMMENTS	PROPOSED RESOLUTION
C4478	DITTO	DITTO	DITTO	DITTO	DITTO
C547	HUCK BOLTS	MATERIAL CMTR	CMTR SPEC. CAN NOT BE USED ON LA SALLE.	ZACK COMPANY TO RECOMMEND TO USE AS IS.	ENG. RESOLUTION NOT REQUIRED AT THIS TIME.

6.2 TAKEN

a) A documentation task force consisting of six (6) persons has been assembled. The group experience represents over 25 years in the documentation field and over 40 years in quality assurance or related areas. Three (3) of the six (6) persons have at least a Bachelor's degree and two (2) have a Masters degree.

This group has just completed a review of all known or available purchase orders and documentation for the three projects. A centralized filing system has been established and detailed quality assurance instructions (attached) have been developed for records and receipt inspection.

b) No action taken todate.

c) A centralized document control center is in the process of being constructed and satellite centers will be established at each of the sites.

d) All purchase orders and material certifications are now being reviewed by a newly established quality engineering group at The Zack Company Chicago offices.

e) All document packages revalidated are in locked files.

f) No action taken todate.

g) [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

given with respect to the requirements and necessity for accurate and controlled documentation.

As stated previously The Zack Company management and ownership assumed part of the responsibility for those unauthorized actions because it allowed an environment conducive to this type of action to exist. The Zack Company also has taken into consideration that the individual(s) involved are loyal employees and while their actions are not condoned, it is understood that it was done with the thought that it was helping the company. Therefore, The Zack Company perceived that the most beneficial action for both the company and the respective projects was not in the loss of these individual(s) but rather in the redirection and controlling of their efforts.

However, because of the implications of this type of unauthorized action, the company has taken the following steps to prevent such actions from occurring in the future:

- h) The Quality Assurance and control organizations have been expanded by fourteen (14) people since the 1st of June, 1981 and at least two (2) more quality engineering positions at the Clinton site are contemplated (see organization chart attached).

6.3 SCHEDULED COMPLETION

- a) A follow-up program to obtain the missing certifications or corrected certifications from suppliers is scheduled for December 31, 1981.
- b) A document and records management program will be completed and implemented by December 31, 1981.

- c) The centralized documentation group will be made up of The Zack Company personnel presently assigned to the documentation task group now in effect. The centralized document center is presently being established and should be completed by November 30, 1981.

- d) No further action required.

- e) ~~_____~~
~~_____~~
~~_____~~

- f) A company training program on documentation will be completed by February 15th, 1982 and training will follow within four (4) weeks.

- g) No further action.

- h) No further action.



CUSTOM METAL FABRICATION

Control, Content and Maintenance
of Q.A. Purchase Order/Certified
Material Test Report Files

1.0 PURPOSE

The purpose of this instruction is to establish the controls, content and maintenance of the Q.A. Purchase Order/Certified Material Test Report files. This instruction supplements the requirements of the Zack Company Quality Assurance Manual, Section 7, Rev.0.

2.0 SCOPE

This instruction SHALL govern the activities associated with the control, content and maintenance of the Q.A. Purchase Order/Certified Material Test Report files. The following topics are presented.

- 6.1 Content of Q.A. PO/CMTR files.
- 6.2 Acquisition of Q.A. PO/CMTR file content.
- 6.3 Receipt, duplication, distribution and filing of Q.A. PO/CMTR file content.
- 6.4 Records.

3. APPLICABILITY

This instruction SHALL apply to all Q.A. Purchase Order/Certified Material Test Report files maintained by the Zack Company, Chicago facility.

4.0 DEFINITIONS

4.1 Q.A. Purchase Order/Certified Material Test Report File

(Q.A. PO/CMTR) - A gathering of Zack Company purchase requisitions, Purchase Orders, certified material test reports and/or certificates of compliance, receiving inspection reports, and other supplementary documentation that is authorized, controlled and maintained in accordance with the provisions of this Instruction.

4.2 Q.A. PO/CMTR Log - A chronological daily log of documentation received by and/or originated by The Zack Company for inclusion in the Q.A. PO/CMTR files.

4.3 Q.A. PO/CMTR Binder Content Checklist - A checklist indicating receipt date and individual receiving the documentation comprising the content of each binder. A checklist is part of the content of each binder.

- FOUNDED TO SOLVE THE UNIQUE METAL FABRICATION NEEDS OF INDUSTRY •
- DEDICATED TO CLEANING AND CUSTOMIZING THE AIR OF THE WORLD •

5.0 RESPONSIBILITIES

- 5.1 The Quality Assurance Manager SHALL be responsible for the following:
- 5.1.1 Authorizing and prescribing the content of the Q.A. PO/CMTR files.
 - 5.1.2 Controlling access to the Q.A. PO/CMTR files by Zack Company individuals and by others.
 - 5.1.3 The assignment of Zack Company individuals to tasks related to control, content and maintenance of Q.A. PO/CMTR files.
- 5.2 The Document Control Clerk SHALL be responsible of the following:
- 5.2.1 Receiving and logging all documentation that is included in the Q.A. PO/CMTR files.
 - 5.2.2 The daily maintenance of the Q.A. PO/CMTR log.
 - 5.2.3 The duplication and distribution of documentation by this instruction.
 - 5.2.4 Filing of documentation as required by this instruction.
 - 5.2.5 Originating and maintaining the Q.A. PO/CMTR file invoices in a current status.
 - 5.2.6 Initiating and maintaining each binder checklist in current status.
 - 5.2.7 The general maintenance of the Q.A. PO/CMTR files.

6.0 REQUIREMENTS AND RECOMMENDATIONS

- 6.1 Content of Q.A. PO/CMTR files.
- 6.1.1 The content of the Q.A. PO/CMTR files and filing method SHALL be as follows:
- A. All documentation related to a specific purchase order number (control number) gathered in and firmly attached in a "Smead" No. C402-5A-2D binder or similar binder.
 - B. Each binder labeled with the specific P.O. number.
 - C. Each binder filed in strict numerical sequence in a fire resistant file cabinet.
 - D. Each file drawer identified with a alpha/numeric designation.
 - E. Each file drawer containing an index of the contents of the drawer.
- 6.1.2 Each individual Q.A. PO/CMTR binder, when complete shall contain the following documentation as a minimum.
- A. Copy of purchase requisition.
 - B. Copy of purchase order.
 - C. Copy of Certified Material Test Report and/or Certificate of Compliance as required by P.O.
 - D. Copy of receiving inspection report.
 - F. Copy of binder checklist.
 - F. Any other authorized documentation.

Note: The requirements of 6.1.2 above are applicable in whole to binder contents originated After the effective date of this instruction ONLY.

6.2 Acquisition of Q.A. PO/CMTR binder contents

6.2.1 The Documentation Control Clerk SHALL acquire each individual Q.A. PO/CMTR binder content as follows:

- A. A Copy of the purchase requisition from the purchasing agent.
- B. A copy of the purchase order, following its approval by Zack Q.A., from the purchasing agent.
- C. A copy of the Certified Material Test Report and/or Certificate of Compliance from the Zack Company individual receiving same.
- D. A copy of the binder content checklist initiated by the Document Control Clerk.
- E. A copy of the receiving inspection report from the Q.C. inspector.
- F. Any other related documentation from authorized sources.

6.3 Receipt, Duplication, Distribution and Filing.

6.3.1 Following receipt/acquisition of the listed documentation the Documentation Control Clerk SHALL perform the steps as listed in sequence.

- A. Zack Purchase Order
 - 1. Log in daily log.
 - 2. Initiate checklist.
 - 3. Enter P.O. on checklist.
 - 4. Number binder.
 - 5. Attach P.O. and checklist in numbered binder, file in F-R cabinet.
- B. Zack Purchase Requisition
 - 1. Log in daily log.
 - 2. Enter requisition on checklist.
 - 3. Attach requisition in numbered binder.
- C. CMTR/C of C
 - 1. Log in daily log.
 - 2. Deliver to Q.A. Engineer for review/approval.
 - 3. Following review/approval by Q.A. Engineer make duplicate copies.
 - 4. Attach original and copies in numbered binder.
 - 5. Enter on checklist.
 - 6. Deliver one (1) duplicate copy to purchasing agent.

D. Receiving Inspection Checklist

1. Log in daily log.
2. Attach in numbered binder.
3. Enter on checklist.

E. Any other documentation

1. Log in daily log.
2. Attach in numbered binder.
3. Enter on checklist.

6.4 Records

6.4.1 The following records shall be collected, stored, and maintained in accordance with the requirements of the Zack Company Quality Assurance Manual for the retention as indicated.

- A. Q.A. PO/CMTR file invoices - life.
- B. Q.A. PO/CMTR daily log - 2 years.

Q.A. PO/CMTR LOG

DATE:

P.O. Rec. Date Req. Rec. Date CMTR/C of C Rec. Date Checklist Date R.J.R. Rec. Date Other Rec. Date

Purchase Order No. _____

QA PO/CMTR BINDER CONTENT
CHECKLIST

DOCUMENT

DATE-INITIALS

Checklist.....

Requisition.....

Purchase Order.....

Receiving Inspection Report(s).....

CMTR/C of G.....
(list each by Vendor)

.....
.....
.....
.....
.....

Other Documentation
(List)

MANAGER
QUALITY ASSURANCE
David E. Calkins

SECRETARY
Barbara Ritchie

QUALITY ENGINEER
SUPERVISOR

Q.C. MANAGER
CHICAGO

Q.C. MANAGER
LASALLE
Harry Meyer

Q.C. MANAGER
CLINTON
*Tom Packy

CHICAGO
*Martin Skates-lead
Ken Schaefer
*Ray Basiaga

MIDLAND
*John O'Connell
*Ed Bodley

INSPECTORS
Charlie Richards -II
*Jim Michalik -II

INSPECTORS (Zack)
Mark Geyer - II
Sam Chennilero -II
Kurt Dietrich - II
Tom Pierski -I
Tim Richards - I
Trent Tribble -II
Ralph Hill -I

INSPECTORS (Quan Tech)
Wayne Kitchen -II
Wayne McFeeley -II
Wm. Temple - II

ASS'T Q.C. MGR
*Gary Mosby
INSPECTORS (Zack)
Dan Hanke -II
Ron Nelson -II
*Larry Smith -II Tr
Rick Becker -I
*Perry Wimbish -II

INSPECTORS (Comsto)
Dan Jenniges -II
W.T. Elliott -II
*Bruce Rarrick -II
*Geoff Richards -II
Jerry Retzer -II

INSPECTORS (QuanTe)
*Billie Tyree -II

Kathy Blomely -Sec
Diane Nelson -Clerk

DOCUMENTATION
GROUP

- *Sharon Mareello -Clerk
- Howard McGrane (MPQAD REP.)
- Ron Perry (Quan-Tech)
- Larry Mondock " "
- Euell Hilyer " "
- *Dean Henigan (Zack)
- *Terry Howard (Zack)



CUSTOM METAL FABRICATION

August 28, 1981
7220-M-151-C/B-538

Bechtel Power Corporation
P.O. Box 2167,
Midland, Michigan 48640

Attn: Mr. L.E. Davis
Site Manager

Re: Consumers Power Company
Midland Power Station
7220-M-151

Gentlemen;

During a recent Quality Assurance review of the certifications for the Midland Project HVAC materials, a number of inconsistencies were determined. These inconsistencies were discussed with Mr. H. Leonard, Manager of Q.A. for MPQAD and verified to also exist in the copies on site. These inconsistencies have been identified and categorized into the following four areas:

1. Material certifications with incomplete information.
2. Material certifications with technical inaccuracies.
3. Material certifications with possible unauthorized and improper modifications.
4. Possible person/persons improperly modifying material certifications.

While The Zack Company has not yet completed it's investigation as to the extent and validity of the above mentioned inconsistencies, it did feel that the indications were of enough substance that The Zack Company may need to solicit Bechtel Corporations assistance and participation, if these inconsistencies are determined to be deficiencies, in the evaluation and determination of a possible 10CFR50.55(e) reportable defect.

Attached is the Corrective Action Request generated by The Zack Company Quality Assurance Department, which identifies the problem, contains a plan of action to determine the extent of the problem and the time frame for it to be completed. Upon completion of this activity and evaluation of the information gathered, a recommended corrective action will be determined.

At the present time The Zack Company does not feel any additional action by Bechtel Corporation or by Consumers Power Company is required. This position is based upon the following considerations:

- FOUNDED TO SOLVE THE UNIQUE METAL FABRICATION NEEDS OF INDUSTRY •
- DEDICATED TO CLEANING AND CUSTOMIZING THE AIR OF THE WORLD •

1. Many of the errors and/or inconsistencies may be only clerical oversights.
2. Recent corrected certifications being received are completely acceptable.
3. Fabrication and erection operations of forming, welding galvanizing, etc. have not indicated any problems which would indicate that the material has any significantly different properties.
4. The inherent design conservatisms may be able to accept any minor discrepancies.
5. The limited number (19) of affected material certifications identified to date.

The Zack Company will keep Bechtel Power Corporation fully informed of developments as they occur and will discuss all results and evaluations prior to any final reports being issued.

We thank you for your cooperation and support in this matter and should you have any questions or problems, please do not hesitate to contact us at (312) 242-3434.

Very truly yours,

David E. Calkins,
Quality Assurance Manager

DEC/br

cc: R.C. Ash, Field Contracts Admin.
H. Leonard, QA Mgr. MPQAD
C.Z. DeZutel
J.C. DeZutel
C.L. Eichstaedt, Jr.
R.F. McCarley
Files/Midland
Files/Chicago

CORRECTIVE ACTION REQUEST (CAR)

1. CAR NUMBER 014 2. DATE 8/28/81
 3. PROJECT Midland Power Station 4. LOCATION Zack Co./Chicago Office
 5. ACTION ASSIGNEE Q.A. Mgr./President 6. SCHEDULED COMPLETION DATE 11/20/81

7. DESCRIPTION: An evaluation of Midland Project Material Certifications has revealed the following discrepancies:

1. Incomplete material test reports.
2. Incorrect material test reports.
3. Improperly modified test reports.
4. Possibility of Individual(s) within The Zack Company improperly changing test reports.

8. RECOMMENDED/DIRECTED CORRECTIVE ACTION(s): In order to determine the extent & the seriousness of these deficiencies the following investigations and evaluations shall be conducted:

1. The Q.A. Mgr. will direct a team of (4) document Tech and (1) MPQAD rep. to review all material test reports for accuracy and completeness by 10/30/81.
2. For Test Reports suspected of being modified will be verified with the respective supplier. Sched. completion 10/30/81.

(continued, page 2)

9. QA MANAGER/DATE

10. PRESIDENT/DATE

11. ACTION TAKEN:

12. ACTION ASSIGNEE/DATE

13. VERIFICATION:

14. ACCEPTED/REJECTED

15. QA MANAGER/DATE

16. PRESIDENT/DATE

RECOMMENDED/DIRECTED CORRECTIVE ACTION(s) - continued

3. Individual(s) implicated or suspected of improperly modifying supplier test reports will be investigated and the evidence obtained will be forwarded to The Zack Company President for appropriate disciplinary action.
4. Upon completion of material test report review all technical discrepancies will be identified and forwarded to Bechtel Power Corporation for evaluation.
5. Upon completion of Actions 1 thru 4, Bechtel Power Corporation will be contacted and a determination if a possible 10CFR50.55(e)/10CFR21 report should be initiated.



CUSTOM METAL FABRICATION

September 25, 1981
#K-2910-CZB-297

Baldwin Associates
P.O. Box 306,
Clinton, IL 61727

Attn: Mr. William Harrington
Project Manager

Re: Illinois Power Co.
Clinton Power Station - HVAC/K-2910
Baldwin Associates

Gentlemen;

During a recent Quality Assurance review of the certifications for the Clinton Project HVAC materials, a number of inconsistencies were determined. These inconsistencies have been identified and categorized into the following four areas:

1. Material certifications with incomplete information.
2. Material certifications with technical inaccuracies.
3. Material certifications with possible unauthorized and improper modifications.
4. Possible person/persons improperly modifying material certifications.

While The Zack Company has not yet completed it's investigation as to the extent and validity of the above mentioned inconsistencies, it did feel that the indications were of enough substance that The Zack Company may need to solicit Sargent & Lundy's assistance and participation, if these inconsistencies are determined to be deficiencies, in the evaluation and determination of a possible 10CFR50.55(e) reportable defect.

Attached is the Corrective Action Request generated by The Zack Company Quality Assurance Department, which identifies the problem, contains a plan of action to determine the extent of the problem and the time frame for it to be completed. Upon completion of this activity and evaluation of the information gathered, a recommended corrective action will be determined.

At the present time The Zack Company does not feel any additional action by Baldwin Associates is required. This position is based upon the following considerations:

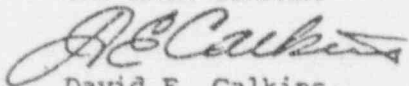
- FOUNDED TO SOLVE THE UNIQUE METAL FABRICATION NEEDS OF INDUSTRY •
- DEDICATED TO CLEANING AND CUSTOMIZING THE AIR OF THE WORLD •

1. Many of the errors and/or inconsistencies may be only clerical oversights.
2. Recent corrected certifications being received are completely acceptable.
3. Fabrication and erection operations of forming, welding galvanizing, etc. have not indicated any problems which would indicate that the material has any significantly different properties.
4. The inherent design conservatisms may be able to accept any minor discrepancies.
5. The limited number of affected material certifications identified to date.

The Zack Company will keep Baldwin Associates fully informed of developments prior to any final reports being issued.

We thank you for your cooperation and support in this matter and should you have any questions or problems, please do not hesitate to contact us at (312) 242-3434.

Very truly yours,
THE ZACK COMPANY



David E. Calkins,
Quality Assurance Manager

DEC/br

cc: C.Z. DeZutel
J.C. DeZutel
C.L. Eichstaedt, Jr.
T. Lucky
B. LaRoache
G. Bennett Browne, Supt. Subcontracts (BA)
J. Smart, BA/QA
Q.A. Chicago
~~Q.A. Clinton~~

CORRECTIVE ACTION REQUEST (C.A.R.)

1. CAR NUMBER #014-b 2. DATE 9/25/81
3. PROJECT Clinton Power Station 4. LOCATION Zack Co./Chicago Office
5. ACTION ASSIGNEE Q.A. Mgr./President 6. SCHEDULED COMPLETION DATE 11/20/81

7. DESCRIPTION: An evaluation of Clinton Project Material Certifications has revealed the following discrepancies:

- 1. Incomplete material test reports.
2. Incorrect material test reports.
3. Improperly modified test reports.
4. Possibility of individual(s) within The Zack Company improperly changing test reports.

8. RECOMMENDED/DIRECTED CORRECTIVE ACTION(s): In order to determine the extent and the seriousness of these deficiencies the following investigations and evaluations shall be conducted:

- 1. The Q.A. Mgr. will direct a team of four (4) document Tech and one (1) MPOAD Rep. to review all material test reports for accuracy and completeness by 10/30/81. (continued see page 2)

Handwritten signatures and dates: J.E. Collins 9/25/81, D.R. Malabar Corp. Sec. for, Christine Z. DeZutel -9/25/81

9. QA MANAGER/DATE 10. PRESIDENT/DATE

11. ACTION TAKEN:

12. ACTION ASSIGNEE/DATE

13. VERIFICATION:

14. ACCEPTED/REJECTED 15. QA MANAGER/DATE 16. PRESIDENT/DATE

2. For Test Reports suspected of being modified will be verified with the respective supplier. Scheduled completion 10/30/81.
3. Individual(s) implicated or suspected of improperly modifying supplier test reports will be investigated and the evidence obtained will be forwarded to The Zack Company President for appropriate disciplinary action.
4. Upon completion of material test report review all technical discrepancies will be identified and forwarded to Baldwin Associates for evaluation.
5. Upon completion of Actions 1 thru 4, Baldwin Associates will be contacted and a determination if a possible 10CFR50.55(e)/10CFR21 report should be initiated.



CUSTOM METAL FABRICATION

September 25, 1981

Commonwealth Edison Co.
LaSalle County Nuclear Station
Rural Route #1, Box 720,
2601 N. 21st Road,
Marseilles, IL 61741

Attn: Mr. William Donaldson
Site Mgr.

RE: LaSalle Power Station, HVAC Contract #J-2590
Commonwealth Edison Co.

Gentlemen:

During a recent Quality Assurance review of the certifications for the LaSalle Project HVAC materials, a number of inconsistencies were determined. These inconsistencies have been identified and categorized into the following four areas:

1. Material certifications with incomplete information.
2. Material certifications with technical inaccuracies.
3. Material certifications with possible unauthorized and improper modifications.
4. Possible person/persons improperly modifying material certifications.

While The Zack Company has not yet completed its investigation as to the extent and validity of the above mentioned inconsistencies, it did feel that the indications were of enough substance that The Zack Company may need to solicit Commonwealth Edison Company's assistance and participation, if these inconsistencies are determined to be deficiencies, in the evaluation and determination of a possible 10CFR50.55 (e) reportable defect.

Attached is the Corrective Action Request generated by The Zack Company Quality Assurance Department, which identifies the problem, contains a plan of action to determine the extent of the problem and the time frame for it to be completed. Upon completion of this activity and evaluation of the information gathered, a recommended corrective action will be determined.

At the present time The Zack Company does not feel any additional action by Commonwealth Edison Co. is required. This position is based upon the following considerations:

- FOUNDED TO SOLVE THE UNIQUE METAL FABRICATION NEEDS OF INDUSTRY •
- DEDICATED TO CLEANING AND CUSTOMIZING THE AIR OF THE WORLD •

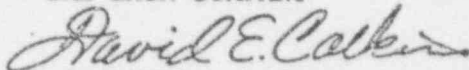
1. Many of the errors and/or inconsistencies may be only clerical oversights.
2. Recent corrected certifications being received are completely acceptable.
3. Fabrication and erection operations of forming, welding galvanizing, etc. have not indicated any problems which would indicate that the material has any significantly different properties.
4. The inherent design conservatisms may be able to accept any minor discrepancies.
5. The limited number of affected material certifications identified to date.

The Zack Company will keep Commonwealth Edison Co. fully informed of developments as they occur and will discuss all results and evaluations prior to any final reports being issued.

We thank you for your cooperation and support in this matter and should you have any questions or problems, please do not hesitate to contact us at (312) 242-3434.

Very truly yours,

THE ZACK COMPANY



David E. Calkins,
Quality Assurance Manager

DEC/br

cc: C.Z. DeZutel
J.C. DeZutel
C.L. Eichstaedt, Jr.
C. Baumgardner
Q.A. Files/Chicago
Q.A. Files/LaSalle

CORRECTIVE ACTION REQUEST (CAR)

1. CAR NUMBER #014-a	2. DATE 9/25/81
3. PROJECT LaSalle Power Station	4. LOCATION Zack Co./Chicago Office
5. ACTION ASSIGNEE Q.A. Mgr./President	6. SCHEDULED COMPLETION DATE

7. DESCRIPTION: An evaluation of LaSalle Project Material Certifications has revealed the following discrepancies:

1. Incomplete material test reports.
2. Incorrect material test reports.
3. Improperly modified test reports.
4. Possibility of individual(s) within The Zack Company improperly changing test reports.

8. RECOMMENDED/DIRECTED CORRECTIVE ACTION(s): In order to determine the extent and the seriousness of these deficiencies the following investigations and evaluations shall be conducted:

1. The Q.A. Mgr. will direct a team of four (4) document Tech and one (1) MPQAD Rep. to review all material test reports for accuracy and completeness by 10/30/81. (continued, see page 2)

A. E. Caldas 9/29/81
D. R. Malzahn, Jr.
 9. QA MANAGER/DATE
 10. PRESIDENT/DATE
Christine Z. DeZucel -9/25/81

11. ACTION TAKEN:

12. ACTION ASSIGNEE/DATE

13. VERIFICATION:

14. ACCEPTED/REJECTED

15. QA MANAGER/DATE
16. PRESIDENT/DATE

2. For Test Reports suspected of being modified will be verified with the respective supplier. Scheduled completion 10/30/81.
3. Individual(s) implicated or suspected of improperly modifying supplier test reports will be investigated and the evidence obtained will be forwarded to The Zack Company President for appropriate disciplinary action.
4. Upon completion of material test report review all technical discrepancies will be identified and forwarded to Commonwealth Edison Co. for evaluation.
5. Upon completion of Actions 1 thru 4, Commonwealth Edison Co. will be contacted and a determination if a possible 10CFR50.55(e)/10CFR21 report should be initiated.

TO: David E. Calkins

FROM: H. McGrane

SUBJECT: Third Interim Report - Documentation Review Results as of October 23, 1981

SUMMARY:

During the period October 2, thru October 23, 1981 the documentation review group completed the review of those P.O./CMTR packages that have been located to date. The P.O./CMTR packages now are consolidated, firmly attached in binders and filed in fire-resistant cabinets.

Approximately 1,750 packages have been reviewed. The majority of packages contain more than one certification, as multiple item purchase orders are utilized by The Zack Company for procurement.

The results of the documentation review have been tabulated on the attached sheets. It should be noted that each package has been categorized arbitrarily by the more predominant deficiency or problem, thus any one package may contain certifications with a fairly wide variety of such deficiencies or problems.

The consolidation process mentioned above involved in many instances a re-review with resulting changes in the categorization of the package. These changes are now incorporated in the tabulation.

DISCUSSION:

The tabulations are presented as follows:

- Page 3 - Midland Tabulation
- Page 4 - Clinton Tabulation
- Page 5 - LaSalle Tabulation
- Page 6 - Midland "Stickers" Detailed
- Page 7 - Clinton "Stickers" Detailed
- Page 8 - LaSalle "Stickers" Detailed
- Page 9 - Midland Alterations Detailed
- Page 10 - Clinton Alterations Detailed
- Page 11 - LaSalle Alterations Detailed
- Page 12 - Midland Missing Certs Detailed
- Page 13 - Clinton Missing Certs Detailed
- Page 14 - LaSalle Missing Certs Detailed
- Page 15 - Missing P.O./CMTR Packages

It should be noted that while pages 12, 13, and 14 appear to list a great number of missing certifications, a detailed review of each individual package and a concurrent search of other documentation areas (traveler/load packages, engineering files, etc.) may very likely resolve the apparent problem.

It is felt that the current status of the review process should be categorized as preliminary. Essentially the review has not been an in depth analysis of all documentation. Appreciable progress has been made toward assessment but final status has not been firmly defined.

CATEGORIZATION:

The results of the review have been categorized as follows:

- Clerical Errors - Lack of reference to "ASTM", revision year of standard, ASTM designation, or G-90 coating.
- Signature Missing - Lack of written signature on cert.
- Signature Error - Signature as typed and handwritten signature or initials not identical.
- Chemical/Mech Test Data - Chemical analysis and/or mechanical test data missing and/or not in accordance with ASTM Std. or Tech. Spec. requirements.
- U.S. Steel letter - P.O.'s listed in U.S. Steel letter to Zack Co. dated 9/21/81, stating that material on P.O.'s were not processed thru U.S. Steel V&T program.
- C of C only - Packages containing only a certificate of compliance which appears to lack approval by Tech. Spec. change.
- No Cert of C of C - Packages which do not contain either a C of C or other certification and appear to require a C of C only.
- Certs Missing - Packages which are lacking only certs for certain item(s) or all certs.
- Anomalies - P.O. no.s/MCN's listed by site as requiring certifications, but which do not appear to be applicable, i.e., tools, etc. - also certain numbers outside the Zack P.O. no. sequence.
- Alterations - Apparent alteration of certs by typing or handwritten changes.
- Stickers - Gummed labels applied to certifications or certification cover sheets. These are typed and signed to indicate ASTM designation in full and signature of responsible individual certifying the data. Authenticity of the signatures is questionable.
- Wrong Standard Referenced - Certification or C of C references a standard not applicable to the material(s) listed.
- Miscellaneous - Voided purchase orders, certs to standards not available to reviewers, "blanket" P.O. etc.

MIDLAND STATION ONLY

	550	TOTAL	PERCENT
PURCHASE ORDER/CMTR FIGS REVIEWED	550		
PACKAGES CORRECT & ACCEPTABLE.....	145		26
CLERICAL ERRORS.....	141		26
SIGNATURE MISSING.....	17		3
SIGNATURE ERRORS.....	12		2
CHEM/MECH TEST DATA.....	47		9
U.S. STEEL LETTER.....	12		2
C OF C ONLY.....	38		7
NO CERT OR C OF C.....	14		3
WRONG STANDARD REFERENCFD.....	24		4
CERTS MISSING.....	43		8
ANOMALIES.....	16		3
ALTERATIONS.....	31		5
STICKERS.....	6		1
MISCELLANEOUS.....	4		1

	TOTAL	PERCENT
PURCHASE ORDER/CMTR PKGS REVIEWED	375	
PACKAGES CORRECT & ACCEPTABLE.....	159	42
CLERICAL ERRORS.....	118	31
SIGNATURE MISSING.....	16	4
SIGNATURE ERRORS.....	9	2
CHEM/MECH TEST DATA.....	13	3
U.S. STEEL LETTER.....	1	-0-
C OF C ONLY.....	6	1
NO CERT OR C OF C.....	-0-	-0-
WRONG STANDARD REFERENCED.....	12	3
CERTS MISSING.....	27	7
LISTED BY SITE BUT NOT LOCATED (NOT PART OF TOTAL).....	20	---
ALTERATIONS.....	22	6
STICKERS.....	5	1
MISCELLANEOUS.....	7	1

LaSalle STATION ONLY

	405	TOTAL	PERCENT
PURCHASE ORDER/CMTR PKGS REVIEWED	405		
PACKAGES CORRECT & ACCEPTABLE.....	109		27
CLERICAL ERRORS.....	152		37
SIGNATURE MISSING.....	9		2
SIGNATURE ERRORS.....	3		1
CHEM/MECH TEST DATA	10		2
U.S. STEEL LETTER.....	6		1
C OF C ONLY.....	19		5
NOT GOOD FOR LA SALLE.....	10		2
WRONG STANDARD REFERENCED.....	5		1
CERTS MISSING.....	61		15
LISTED BY SITE BUT NOT LOCATED (NOT PART OF TOTAL).....	40		-0-
ALTERATIONS.....	11		3
STICKERS.....	3		1
MISCELLANEOUS.....	7		2

- C-738 "Sticker" added to Midwest Steel cert to indicate ASTM/year and signature.
- C-742 "Sticker" added to U.S. Steel cert to indicate ASTM/year and signature.
- C-779 "Sticker" added to National Metal cert to indicate ASTM/year and signature.
- C-948 "Sticker" added to National Metal cert to indicate ASTM/year and signature.
- C-739 "Sticker" added to U.S. Steel cert to indicate ASTM/year signature.
- C-689 "Sticker" added to National Metal cover letter to indicate ASTM/year signature.

"STICKERS"CLINTON STATION ONLY

- C-738 "Sticker" added to Midwest Steel cert to indicate ASTM/year and signature.
- C-742 "Sticker" added to U.S. Steel cert to indicate ASTM/year and signature.
- C-779 "Sticker" added to National Metal cert to indicate ASTM/year and signature.
- C-948 "Sticker" added to National Metal cert to indicate ASTM/year and signature.
- C-1003 "Sticker" added to Penn-Dixie cert to indicate Heat No., ASTM/year and signature.

"STICKERS"

LASALLE STATION ONLY

- C-738 "Sticker" added to Midwest Steel cert to indicate ASTM/year and signature.
- C-739 "Sticker" added to U.S. Steel cert to indicate ASTM/year, G-90 coating and signature.
- C-742 "Sticker" added to U.S. Steel cert to indicate ASTM/year and signature.

ALTERATIONSMIDLAND STATION ONLY

C-604 Carbon content (chemical analysis) white out and retyped.
C-641 ASTM year added in different type face.
C-643 ASTM year added in different type face.
C-728 P.O. number changed on galvanizing cert.
C-743 Year added to cert.
C-752 P.O. number changed on galvanizing cert.
C-812 P.O. number changed on galvanizing cert.
C-855 Number of pcs. changed on galvanizing cert.
C-863 P.O. number changed on Edgcomb cert.
C-870 Year added to cert.
C-872 Heat number changed on cert.
C-891 ASTM designation added to cert.
C-914 "Kawin" cert. P.O. number changed (coil #478)
C-918 "G-90" added to cert.
C-920 Material size added to cert.
C-938 P.O. number changed on cert.
C-940 Vendor name changed on Central Steel cert cover letter.
C-946 Heat number changed on cert.
C-948,
3 & 4 Description and heat numbers enhanced.
C-1021 Heat number changed on cert.
C-1029 P.O. number changed on galvanizing cert.
C-1022 Material description changed on cert cover letter.
C-1118 Year added to cert.
C-1163 Cert cover letter, heat number typed over.
C-1228 Size of material changed on galvanizing cert.
C-1274 Year added to cert.
C-1321 Material description changed on galvanizing cert.
C-1328 Heat number enhanced on cert.
C-4064 P.O. number changed on C of C.
C-4175 P.O. number changed on cert.
C-4246 P.O. number changed on C of C.

ALTERATIONSCLINTON STATION ONLY

C-604 Carbon content (chemical analysis) white out and retyped.
C-641 ASTM year added in different type face.
C-643 ASTM year added in different type face.
C-697 P.O. number changed on galvanizing cert.
C-728 P.O. number changed on galvanizing cert.
C-743 ASTM year added to cert.
C-812 P.O. number changed on galvanizing cert.
C-855 Number of pcs changed on galvanizing cert.
C-914 "Kawin" cert., P.O. number changed.
C-918 "G-90" added to cert.
C-739 P.O. number changed on Pittsburgh Testing Lab. cert.
C-946 Heat number changed on cert.
C-1021 Heat number changed on cert.
C-1022 Material description changed on cert cover letter.
C-1044 P.O. number changed on galvanizing cert.
C-1077 P.O. number changed on galvanizing cert.
C-1118 ASTM year added to cert.
C-1136 Heat number enhanced on Bethlehem Steel cert.
C-1163 Cert cover letter, heat number typed over.
C-1274 ASTM year added to J&J cert.
C-4420 Year added to cert.
C-1177 Cert cover letter altered.

ALTERATIONS

LASALLE STATION ONLY

C-604 Carbon content (chemical analysis) white out and retyped.
C-641 ASTM year added in different type face.
C-643 ASTM year added in different type face.
C-743 ASTM year added to cert.
C-855 Number of pcs changed on galvanizing cert.
C-914 "Kawin" cert, P.O. number changed.
C-938 P.O. number changed on cert.
C-940 Vendor name changed on Central Steel cert cover letter.
C-947 Heat number enhanced.
C-1029 P.O. number changed on galvanizing cert.
C-1274 Year added to cert.

MISSING CERTIFICATIONS - MIDLAND STATION

C-No.
456
460 galvanizing
466
470 galvanizing
519 galvanizing
577
582
636 galvanizing
687
722
785 partial
801 galvanizing
802
1089
4014
4034
4100
4102
4267
4334
4331
12303
14212
4354
507
637 galvanizing
645 galvanizing
666 galvanizing
689
761
867
1138
4021
4128
4151
4262
8314
11503
12310
12340
12982
13295

Note: It is anticipated that all or many of the above will be located during the traveler review. The galvanizing certs can very likely be located by an intensive review of other P.O. packages for galvanizing (Reliable).

MISSING CERTIFICATIONS - CLINTON STATION

C-No.

561
704
666
787
789
771
002
817
1108
1135
3114
4004
4202
4116
4122
4130
4137
4178
4223
4262
4350
4406
4427
4455
12256
12265
12279

Note: See comments on Page 12

MISSING CERTIFICATIONS - LASALLE STATION

<u>C-No.</u>	<u>C-No.</u>
470	773
474	775
520	9422
572	13207
605	13246
627	
636	
637	
642	
645	
658	
666	
683	
684	
704	
711	
722	
736	
790	
793	
798	
813	
3111	
3114	
4014	
4021	
4092	
4105	
4108	
4137	
4143	
4268	
4337	
4348	
4455	
5776	
9242	
9427	
9441	
9447	
9455	
9505	
9506	
12303	
12349	
522	
524	
526	
535	
549	
552	
559	
563	
583	
584	
586	

NOTE: See comment on Page 12

MISSING P.O./CMTR PACKAGES (No Documentation)

The following lists (partially) P.O. numbers that are assumed to have been used but were not located during the review. The list is limited to numbers that occur in sequence where the preceding and following number have been located.

C-No.

502
548
592
800
922
1000
1007
1402
4000
4160
4195
4197
4218
4313
4396

The above numbers are representative only. It is suggested that a detailed study of the Purchasing Agents records might resolve the apparent missing package problem.



**U. S. Steel
Supply**

Division of United States Steel Corporation

P. O. BOX 7310
CHICAGO, ILLINOIS 60680
312/646-3211

CHICAGO SERVICE CENTER

September 21, 1981

The Zack Company
4600 West 12th Place
Chicago, IL 60650

Attention: Mr. R. Hagen, P.A.

Gentlemen:

In reference to your P.O.'s

C1211 dated 12-3-80✓	C1227 dated 1-02-81✓	C1265 dated 3-16-81✓
C1219 dated 1-02-81✓	C1238 dated 1-30-81✓	C1266 dated 3-20-81✓
C1220 dated 1-02-81✓	C1246 dated 2-11-81✓	C1280 dated 4-13-81✓
C1221 dated 1-02-81✓	C1247 dated 2-11-81✓	C1281 dated 4-13-81✓
C1222 dated 1-02-81✓	C1253 dated 2-19-81✓	C1283 dated 4-21-81✓
C1223 dated 1-02-81✓	C1257 dated 3-11-81✓	C1295 dated 5-01-81✓
C1224 dated 1-02-81✓	C1260 dated 3-11-81✓	C1305 dated 5-19-81✓
C1225 dated 1-02-81✓	C1261 dated 3-19-81✓	C1309 dated 5-20-81✓
C1226 dated 1-02-81✓	C1264 dated 3-16-81✓	

The above confirming orders all read "Safety Related." These orders were not called in to our salesperson as "Safety Related." Therefore, they were handled in our normal procedure and not run through our V & T Program which your company audited on 9-11-81.

Please advise us what is meant by the term "Safety Related" and what obligation if any does this impose on the supplier.

Sincerely,

U.S. STEEL SUPPLY

Gerald E. Peters
Gerald E. Peters
Office Supervisor

GWP/mm

cc: K. Schaefer, Quality Assurance Engineer

We want to work for you.

11.

REPORT NUMBER ZC-CB-519

2. DATE June 25, 1981

3. ITEM / PART NUMBER Hanger C-7049 4. AREA / BUILDING 825' Control 5. DRAWING NUMBER M14-1018-3-H

6. OWNER FURNISHED MATERIAL OR EQUIPMENT YES NO 7. Q. LISTED YES NO

8. DESCRIPTION OF NON CONFORMANCE: A piece of Auxiliary steel channel (C8x11.5) Control #1144, for Hanger C-7049, was found with the following information embossed on it- Somisa Ind, Argentina. The material certification for Control #1144 specifies C8x11.5-Heat #'s 86745 and 86747, as manufactured by Northwestern Steel and Wire Company.

NCR Tag #16398 9. REPORTED BY *Oruby*

10. RECOMMENDED CORRECTIVE ACTION: Investigate all circumstances surrounding this situation and take necessary corrective action.

11. QC INSPECTOR / DATE *N/A* 12. QC MANAGER / DATE *Oruby 6/25/81* 13. PROJECT MGR. / PLANT SUPT. / DATE *Bon St. Onge 6/27/81*

14. CORRECTIVE ACTION TAKEN: Control #1144 for Hanger #C-7049 was incorrectly identified. In addition, C-1144 was then incorrectly changed to C1152-1. Background investigation has shown the control # to be C-1013. (See attached letter). In addition, further investigation, justifies issuance of NCR-519, Rev. 1 for S&L approval.

15. PROJECT ENGINEER / DATE _____ 16. PROJECT MGR. / PLANT SUPT. / DATE _____

17. VERIFICATION OF CORRECTIVE ACTION TAKEN: SEE ATTACHED FOR CONDITIONAL RELEASES - Oruby 10/1/81
CONTENTS OF THIS NCR NOW INCORRECT
~~Closed - SEE 519-A 2/22/82~~

18. ACCEPTED REJECTED 19. QC INSPECTOR / DATE *Oruby 2/22/82* PROJECT MGR. / DATE _____

CONDITIONALLY RELEASE HANGERS C6305 + C6326 FOR REMOVAL - *Dunlop* 10/1/81

CONDITIONALLY RELEASED HANGERS C-6223, C-6228, C-6233 FOR REMOVAL
Dunlop FOR TWPACKY 7-30-81

Conditionally release hangers C-6302 and C-6303 for removal of auxillary steel ^{FOR TWPACKY} *Dunlop* 10-1-81
Conditionally Released Hangers C-7163, C-7164 for Removal *Dunlop* FOR TWPACKY 10-12-81

CONDITIONALLY RELEASED TO REMOVE A-5057 *Dunlop* FOR TWPACKY 10-22-81

CONDITIONALLY RELEASED TO REMOVE A-5056, A5140 *Dunlop* FOR TWPACKY 10-23-81

CONDITIONALLY RELEASE TO REMOVE C7016 + C1052 - *Dunlop* 10/28/81

CONDITIONALLY RELEASE TO REMOVE A5022 + A5023 - *Dunlop* 11/10/81

CONDITIONALLY RELEASE HANGER C7099 FOR CONSTRUCTION *Dunlop* 11/20/81

CONDITIONALLY RELEASE HANGERS C7026, C7027 FOR CONSTRUCTION
Dunlop 11/25/81

CONDITIONALLY RELEASE HANGERS C7097, C7098, C7103 + C7104 FOR CONSTRUCTION - *Dunlop* 12/21/81

CONDITIONAL RELEASE HANGERS * C-7043 + C-7093 FOR CONSTRUCTION - *Dunlop* 11/19/82

CONDITIONAL RELEASE C7100 - C7101 - C7106 - C7099 - C7096 - C7095 FOR CONSTRUCTION *Dunlop* 1-25-82



CUSTOM METAL FABRICATION

February 22, 1982
NCR-ZC-CB-519
(Attachment #3)
Page 3 of 5

To: DCC (Clinton Site)
~~QC (Clinton Site)~~
QA (Chicago)
DETAILING/DRAFTING (Chicago)
PLANT SUPERINTENDENT (Chicago)

From: C. L. Eichstaedt, Jr.

Re: Hanger C-7049

After a thorough research for Purchase Order origin of the 2 pcs. 8" x 11.5 # Channel x 62 1/2" is control number C-1013. Kindly recall all controlled travelers SF-1491 and change the control number from 1144/1152-1 to 1013.

Have copies of changed traveler SF-1491 sent to Mr. Gary Moseby, Site Q.C. Manager for his verification.

Carl L. Eichstaedt, Jr.
Vice President - Manager
Nuclear Construction

CLE/i.w

cc: C.Z.DeZutel
D.Malzahn
R.LaRoche
File/Chicago



CUSTOM METAL FABRICATION

(Attachment #2)
NCR-ZC-CB-519
February 22, 1982
Page 1 of 3

- 1.) "Unmarked steel previously identified on the original NCR does not imply it is Argentinian. "United States Steel" Corporation has an embossed USS interlinked on channel webs, only at each end at approximately 10 inches from factory cut ends. Bethlehem Steel Corporation has "Bethlehem" embossed on channel webs approximately 8 inches from each factory cut end. Neither company stamps the heat number or size on their flanges.
- 2.) Some of the hangers originally listed on NCR-519 had some very heavy galvanizing on them and embossed names or stamped heat numbers could not be found during the original inspections. These channels were later wirebrushed, and after the removal of the galvanizing, we could then identify them as United States Steels.

HANGERS' TRANSFERRED FROM ARGENTINIAN LIST

A-0052	Shipped from Chicago
A-4024	Took out Argentinian 7/24/81
A-5022	Used from #a5023
A-5023	SCR from 4/26/81 stock
A-5033	Deleted by FCR
A-5040	Not installed
A-5056	Replaced 1171-4 on 11/19/81
A-5057	Replaced 1144/1171-4 on 11/30/81
A-5085	SCR 6/6/81 (In laydown)
A-5086	Replaced
A-5087	Replaced
A-5091	Replaced by NSW-USA
A-5092	SCR from hanger A-5094 12/14/81 FIN 9/28/81 (1152-1 MCN)
A-5094	Replaced IP with 1144 (9/24/81)
A-5097	Deleted FCR 14095
A-5098	Replaced with 1144 10/6/81
A-5100	Replaced by 1144 IP 9/23/81
A-5102	Replaced by NSW-USA
A-5133	Deleted by FCR-12258, Rev. 1
A-5135	SCR 1013 (stock) in laydown
A-5140	Replaced 1171-4 Conditional release 11/19/81
C-1010	FIN on 1/27/81 (stock)
C-1019	Went to gusset plates
C-1043	Not Argentinian
C-1044	2 tags 16169 - NOT ARGENTINIAN <i>from 2/22/82</i>
C-1047	No ticket-not working

• FOUNDED TO SOLVE THE UNIQUE METAL FABRICATION NEEDS OF INDUSTRY •
• DEDICATED TO CLEANING AND CUSTOMIZING THE AIR OF THE WORLD •



CUSTOM METAL FABRICATION

Page 2 of 3

C-1052 Stock 1171-4 on 11/30/81
C-1122 Not Argentinian steel
C-3181 No ticket - not installed
C-3190 No ticket - not installed
C-6028 SCR to cut (2) pcs. 904 shorter by 1½" on 3/13/80
C-6029 6219 to cut (2) pcs. 904 shorter by 1½" on 3/13/80
C-6034 Replaced by not-marked steel
C-6238 SCR from C6380 on 6/11/80
C-6319 Not Argentinian steel
C-6326 FIN 10/13/81 stock
C-6335 SCR used C6335 Steel on C6129
C-6339 SCR from hanger 6319 on 5/30/80
C-6340 Not Argentinian steel
C-6355 SCR on 5/30-80
C-6376 1-unknown SCR to 904 hanger C6069 on 5/23/80
C-6500 No marks - not Argentinian steel
C-6379 Deleted
C-6380 Deleted
C-7011 No marks - not Argentinian steel
C-7012 No marks - not Argentinian steel
C-7016 Replaced 1 pc. 1171-4 on 11/24/81
C-7050 Pulled tag
C-7093 NSW-USA-9
C-7107 "6" channel
C-7144 Replaced Argentinian steel
C-7243 Not Argentinian steel SF-0936 for MCN #
D-0102 6" channel
D-0103 6" channel
D-1028 Replaced with USS
D-4003 8/15/81 by FIN - Bethlehem steel
D-4142 Non-existent
D-4203 Changed to NSW-USA-9
D-4321 Changed to NSW-USA-9
C-6-40 Not Argentinian steel - transferred from SF-1396
C-6050 Not Argentinian steel
C-6051 SCR used 904 material (3/11/80) C6097 not marked
C-6054 SCR used 904 steel on 6/11/80
C-6055 SF-1171 - not Argentinian steel
C-6061 SF-1171 - not Argentinian steel
C-6085 SCR cut 1 1/16" off 904 material on 3/4/80
C-6086 Not marked 904 SF-0589
C-6088 SF-1292 - 904 not marked
C-6098 C6030 transfer - Bethlehem steel
C-6102 SCR to 1144 stock on 10/19/80
C-6117 SF-0881 - not Argentinian steel
C-6121 Both Bethlehem steel
C-6135 SF-1296 - replaced



CUSTOM METAL FABRICATION

Page 3 of 3

C-6241	SCR from stock 904 not marked 6/3/80
C-6242	SCR from 904 6/6/80
C-6243	Not Argentinian steel
C-6244	(No ticket) No work done
C-6245	Not Argentinian steel
C-6216	SCR from 904 6/3/80
C-6219	SCR from 904 6/2/80
C-6223	Not Argentinian steel
C-6228	NSW USA
C-6229	SCR from hanger's #6102 & 6107 6/3/80
C-6230	SCR from stock
C-6232	SCR from C-6096 & C-6065 904 6/11/80
C-6233	Bethlehem steel
C-6234	Not Argentinian steel
F-0003	Deleted by FCR 9189, Revision 1
F-0036	No work done
F-0060	No work done
F-4731	No ticket - no work done
P-2011	No ticket - no work done
P-4030	No ticket - no work done

f.d.a/c

EDB P-11-82

BALDWIN ASSOCIATES
ILLINOIS POWER COMPANY
CLINTON POWER STATION

NONCONFORMANCE REPORT

NO. 6528
SHEET 1 OF 910

1. CPS UNIT: 1 # 7394

2. PREPARED BY/DATE: Romy R. Riedy 3/4/82
3. DEPARTMENT: Subcontracts
4. SAFETY NON-SAFETY AUG D/FP
5. ASME YES NO

6. SYSTEM: B/A BUILDING: N/A ELEVATION: N/A AREA: N/A

SUBJECT: Zack NCR ZC-CB-519 Rev. 1

7. REFERENCE DOCUMENT / REV. X-2910 April 4
8. TRAVELER/REPORT REF N/A ORIGINAL

9. NONCONFORMANCE:
See attached Zack ~~ZC-CB-519 Rev. 1~~
RECEIVED
ZACK DOCUMENT CONTROL COPY # *Zack*
AUG 12 1982 AUG 10 1982

BALDWIN ASSOCIATES P.E.

11. HOLD TAG ID No. N/A
12. CLASSIFICATION: USE-AS-IS REWORK REPAIR/REWORK REJECTION
13. RECOMMENDATION: OTHER: APPROVED

Accept Zack's recommendation to use-as-is for reasons lists on sheet 9 (attachment #5).

This NCR to supersede NCR 5922.

DATE REC'D: 3/4/82 DATE SHIP. REC'D: 3/12/82

14. DOC. REV. REV. / AFFECTED DOCUMENT(S) NUMBER(S): N/A
 YES NO
15. RECOMMENDATION IMPLEMENTED: YES NO
16. CORRECTIVE ACTION (IF REQ'D.): SEE BACK NCR
17. POTENTIALLY REPORTABLE: YES NO

18. PE APPROVAL/DATE: [Signature] 3/4/82
19. QC/TS MANAGER REVIEW/DATE: [Signature] 3/4/82
20. CONDITIONAL ACCEPT: N/A
21. AMI REVIEW/DATE: N/A

22. IPC SUPVR. OF CONST. COMMENTS: N/A

23. DESIGN ORGANIZATION'S DISPOSITION:
ACCEPT BA RECOMMENDATION TO USE AS IS BASED ON THE REASONS ON SHT. 9.

24. DESIGNER'S ACCEPTANCE/DATE: D.K. Schaffer / [Signature] / 4-1-82
25. QC/TS MGR. DATE: [Signature] / 4-1-82

25. FINAL INSPECTION RESULTS: REPORT NO. REF. N/A
 CONFORMING NON-CONFORMING
26. QC/TS MGR. FINAL REVIEW/DATE: [Signature] / 4-1-82
27. SFE NCR No. N/A
28. QC/TS MGR. REVIEW/DATE: [Signature] / 4-1-82

29. NCR CLOSED BY/DATE: [Signature] 7-5-82

THIS REPORT WAS REVIEWED FOR PUBLICATION TO THE FILE BY: [Signature]
DATE: [Signature] / [Date]

MCR-ZC-CB-519, Rev. 1
(Attachment #5)

Research into this problem resulted in the following conclusion: It has been determined the original steel provided by the supplier, under control numbers C-904 and C-1013, was inadvertently switched with an order of Argentina steel at the galvanizers.

The material certifications provided by the supplier do not reflect the steel as coming from Argentina; however, the steel was sample tested (see attachment #2) and found to meet the ASTM-A-36-77A standards.



U. S. Steel
Supply

Division of United States Steel Corporation

P. O. BOX 7310
CHICAGO, ILLINOIS 60660
312/646-3211

CHICAGO SERVICE CENTER

September 21, 1981

The Zack Company
4600 West 12th Place
Chicago, IL 60650

Attention: Mr. R. Hagen, P.A.

Gentlemen:

In reference to your P.O.'s

C1211 dated 12-3-80✓	C1227 dated 1-02-81✓	C1265 dated 3-16-81✓
C1219 dated 1-02-81✓	C1238 dated 1-30-81✓	C1266 dated 3-20-81✓
C1220 dated 1-02-81✓	C1246 dated 2-11-81✓	C1280 dated 4-13-81✓
C1221 dated 1-02-81✓	C1247 dated 2-11-81✓	C1281 dated 4-13-81✓
C1222 dated 1-02-81✓	C1253 dated 2-19-81✓	C1283 dated 4-21-81✓
C1223 dated 1-02-81✓	C1257 dated 3-11-81✓	C1295 dated 5-01-81✓
C1224 dated 1-02-81✓	C1260 dated 3-11-81✓	C1305 dated 5-19-81✓
C1225 dated 1-02-81✓	C1261 dated 3-19-81✓	C1309 dated 5-20-81✓
C1226 dated 1-02-81✓	C1264 dated 3-16-81✓	

The above confirming orders all read "Safety Related." These orders were not called in to our salesperson as "Safety Related." Therefore, they were handled in our normal procedure and not run through our V & T Program which your company audited on 9-11-81.

Please advise us what is meant by the term "Safety Related" and what obligation if any does this impose on the supplier.

Sincerely,

U.S. STEEL SUPPLY

Gerald E. Peters

Gerald E. Peters
Office Supervisor

GWP/mm

cc: K. Schaefer, Quality Assurance Engineer

We want to work for you.

True

Typed and

file 11-11-81

25

UNTIL Further notice the following Record Review procedure will be:

1. No file or file material will leave the document room.
2. Files are to be reviewed in the document room at the table provided.
3. If extensive review of file material is needed, copy/copies of pertinent documents will be made by documentation personnel.
4. File material is available to Zack or Zack related personnel involved in related research.

Would this be sufficient to post on the sign for the time being

Release

T. Yes
Have typed and post
TH

WILE ZACK CO.

5

QUALITY ASSURANCE TRAINING REPORT

1. DATE November 19, 1981

THE BELOW LISTED INDIVIDUAL(S) RECEIVED QUALITY ASSURANCE TRAINING IN ACCORDANCE WITH THE ZACK COMPANY QUALITY ASSURANCE TRAINING PROGRAM

	<u>NAME</u>	<u>INITIAL</u>	<u>POSITION</u>
2.	ALBERT T. HOWARD	AH	DOCUMENT CONTROL SUPERVISOR
3.	STANLEY L. MARCELLO	SLM	DOCUMENT CONTROL CLERK
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			

DESCRIPTION OF TRAINING SESSION CONDUCTED

12. TECHNICAL & CUSTOMER REQUIREMENTS RELATED TO IMPLEMENTATION OF ZACK PROGRAMS QA-9. INSTRUCTIONS & IDENTIFICATION RELATED TO THE APPLICATION OF ANSI 45.2.9 TO THE ZACK QUALITY ASSURANCE PROGRAM. FAMILIARIZATION WITH BASIC ALPHA-NUMERIC FILM SYSTEMS & PRACTICES. FAMILIARIZATION WITH ASTM STANDARD SPECIFICATIONS.

13. Howard E. [Signature]
Q.A. TRAINING INSTRUCTOR

CC. Q.A. MANAGER
FILE-SITE, QC DEPARTMENT

HAT #1 Release (27)



(P)

43 F

CUSTOM METAL FABRICATION

November 5, 1981

MEMO

TO: ALL COGNIZANT PERSONNEL

RE: Mr. A. "Terry" Howard, Quality Assurance Department

EFFECTIVE: November 16, 1981

The Zack Company is pleased to announce that Mr. A.T. "Terry" Howard will assume the position of Document Control Supervisor. In this capacity Mr. Howard will be responsible for the direct supervision of the Chicago office document control clerk and document engineers. Mr. Howard, will also be responsible for providing technical direction to the site document control departments as the Chicago Centralized Document Control Center is established and the company policies and procedures relative to document control and records management are developed.

Terry, will replace Mr. Howard McGrane who has been on loan to The Zack Company from Consumers Power Company. The Zack Company cannot express enough, our appreciation for the energy and guidance Mr. McGrane has extended in his efforts to rectify The Zack Company quality records problems. The Zack Company is positive that Mr. McGrane will be successful in all his future endeavors and only wish to add our congratulations in advance of whatever, those successes might be.

Your continued support of Mr. Howard in his new capacity will ensure the success of The Zack Company in meeting our contractual requirements for the nuclear projects.

Congratulations and Good Luck.

THE ZACK COMPANY

David E. Calkins,
Manager Quality Assurance

Release

ATTACHMENT 1

- FOUNDED TO SOLVE THE UNIQUE METAL FABRICATION NEEDS OF INDUSTRY •
- DEDICATED TO CLEANING AND CUSTOMIZING THE AIR OF THE WORLD •

(31)



CUSTOM METAL FABRICATION

April 9, 1982

MEMO TO: Mr. Dennis Albritten
FROM: Christine Zack DeZutel
RE: Policies clarification

1. The Zack Company generally follows these steps in reprimand procedures:
 - A. The situation in question is discussed with the employee. A written memo is generated on the problem. It is signed by the concerned parties. This documented warning is placed into the individuals personnel file with no further action.
 - B. If a situation arises again, the discussion documentation procedure described in A above is repeated. The employee receives a three day lay off without pay.
 - C. The third time the situation happens the employee will be terminated.
 - D. The above clarification of course, does not apply to offenses involving thievery, intoxication, blatant insubordination or other unscrupulous acts. The mandate in these situations is immediate dismissal with loss of benefits and possible legal recourse.

.. Performance Evaluation:

In most instances the Zack Company hires (and documents) new personnel with a 30, 60 or 90 day review. This review is an evaluation of the employee's overall proficiency. This evaluation will lead to one of three conditions:

- a. continued employment
- b. termination of employment
- c. compensation adjustment

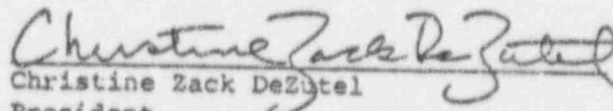
Continued

April 9, 1982

Memo to Dennis Albritten

Page 2

3. I believe your questions have been answered. If I can be of further assistance, let me know.


Christine Zack DeZotel
President

CZDZ/nw



4/15/82

QUALITY ASSURANCE MANUAL

AUDIT REPORT

1-82-49

AS
JRP

Type Audit: Program Audit Product Inspection Point
 Records Special

To: Mr. Martin Skates, Quality Assurance Manager

Project LaSalle Visit Date 3/22-23/82 Report Date 3-29-82

System HVAC Component Identification N/A

Material Description N/A

Vendor Zack Co. Location Cicero, IL

Subcontractor N/A Location N/A

Contacts Martin Skates, Ray Basiaga

P.O. No. _____ Spec. No. J-2590

Recommended Inspections: 6 mos 3 mos 1 mo

Other: As scheduled

Notes: Please respond to the deficiencies identified in Exhibit A by May 5, 1982. Exhibit B has a list of the personnel in attendance for the entrance and exit meeting. The response must include action taken to correct the deficiencies, action taken to prevent reoccurrence, and date corrective action will be implemented. Please direct response to George Marcus, Director of Quality Assurance and a copy to Robert E. Waninski.

Auditor Robert E. Waninski Date 3-29-82

Reviewed G.F. Marcus Date 4-8-82

cc: Manager of QA 4-15-82
[Redacted]
[Redacted]
[Redacted]
Manager of Projects
[Redacted]

Director of QA (Engr-Constr)
Site Constr. Supt. [Redacted]
[Redacted]
Site Quality Assurance
Project Manager
Project Engineering Mgr.
[Redacted]
[Redacted]

Release (5)

AUDIT OF ZACK CO. CORPORATE

BY COMMONWEALTH EDISON QUALITY ASSURANCE

AUDIT # 1-82-49

The Commonwealth Edison Quality Assurance Department conducted its scheduled off-site audit of Zack Company - Corporate Office - on March 22nd and 23rd, 1982. The purpose of the audit was to determine if Zack Company had been implementing the requirements of their approved Quality Assurance Program, latest revision dated 3-31-80.

The audit checklist consisted of 17 questions, of which it was determined that two deficiencies existed. The first deficiency, Finding #1, involves control of revised documentation. The second deficiency, Observation #1, address protection of quality assurance records.

It should be noted that of the other areas audited, material traceability and material control activities appear to be managed quite well. Another area worthy of being mentioned, is the preparation of documentation such that the Certificate of Conformance may be issued. Although two deficiencies have been noted, Zack Company's overall Quality Assurance Program appears to be adequately implemented.

Zack Company is requested to respond to the deficiency by May 5, 1982. In the response, please indicate the actions taken to prevent recurrence and the date these steps will be implemented, in addition to the actions taken to correct the deficiencies.

FINDING #1

Contrary to Zack's Quality Assurance Manual, Section 4, the distribution control system does not reclaim and destroy obsolete documents, drawings, and specifications.

Discussion

It was determined that superceded drawings are not reclaimed from the field group when revised drawings are issued. The field representative signs a Transmittal Notice for Engineering Documents, thereby assuring receipt, and supposedly files the superceded documents at the site. This activity is also contrary to procedure CCP-12 para. 4.2, which supports the Quality Assurance Manual's commitment to reclaim and destroy void documents.

OBSERVATION #1

Zack Company record storage facilities do not protect contents from possible destruction by causes such as fire, etc.

Discussion

It was noted that only a portion of Quality Assurance records are maintained in fire-proof cabinets rated at 350° F for 1 hour. These records include items such as CMTR's, Certificates of Conformance, and welder qualifications. Drawings and shop travellers are kept in non-fireproof cabinets. No sprinkler systems were noted in any of the storage areas.

EXHIBIT B

Zack Audit 3-22,23

Entr. nce Meeting

R. E. Waninski	CECo	Lead Auditor
Martin Skates	Zack	QA Manager
Ray Basiaga	Zack	QA Eng.
Carl L. Eichstaedt Jr.	Zack	VP/Proj. Manager

Exit Meeting

Christine DeZutel	Zack	President/Owner
R. E. Waninski	CECo	Lead Auditor
Martin Skates	Zack	QA Manager
Ray Basiaga	Zack	QA Eng.
Carl. L. Eichstaedt Jr.	Zack	VP/Proj. Mgr.



Address reply to: Post Office Box 767
Chicago, Illinois 60690

April 12, 1982

Mr. Martin Skates
Quality Assurance Manager
Zack Company
4600 West 12th Place
Chicago, Illinois 60656

Dear Mr. Skates:

Subject: C.E.Co. Audit of Zack

Enclosed herewith is the report of our audit of the Zack Cicero, Illinois plant which was conducted by our Quality Assurance Department personnel. Please note that a written response is requested by May 5, 1982. Thank you for the cooperation extended during the audit.

Yours truly,

G. F. Marcus
Director of Quality Assurance
(Engineering/Construction)

GFM/pl

cc: R. E. Waninski

7429A

LASALLE STATION

AUDIT OF: Zack

AUDIT NO. 1-82-49

3/16/61

LEAD AUDITOR R. E. Waninski

CHECKLIST APPROVED FOR USE [Signature]
DATE

PAGE 1 OF 9

Question

ACC	DEF	NA

- 1) Verify that the Quality Assurance Manager and the Quality Control Manager are qualified per the Quality Assurance Manual.
(Ref. : Q.A. Manual Section 2 pg. 4 of 5)

ACC	DEF	NA

- 2) Assure that the Organization Chart correctly reflects the current status of the Organization.
(Ref. : Q.A. Manual Section 3 Org. Chart pg. 5 of 5)

Q.

QUESTION

ACC	DEF	N

Verify that the distribution control system assures that obsolete documents, drawings, and specifications are reclaimed and destroyed.

(Ref. : Q.A. Manual Section 4 pg.1 of 4)

ACC	DEF	N

4) Verify that raw material is inspected to insure conformance to the purchase order requirements.
(Ref. : Q.A. Manual Section 5 pg. 1 of 4)

NO.

QUESTION

ACC	DEF	N

Assure that individual piece part identification and material traceability to lot, heat, and batch number are provided on the shop traveler.
(Ref. : Q.A. Manual Section 6 pg. 2 of 2)

ACC	DEF	N

6) Verify that each item on the shop fabrication drawing has been given a tag number, and that this item is then listed on the shop ticket as required.
(Ref. : Q.A. Manual Section 7 pg. 3 of 9)

NO.

QUESTION

ACC

DEF

N

Assure that physical and chemical material certification (CMTR's) have been supplied for material used for Nuclear Plant and/or seismic applications.
(Ref. : Q.A. Manual Section 8 pg. 2 of 2)

ACC	DEF	N

8) Verify that shop fabrication tickets are tagged with heat numbers, lot numbers, or purchase order numbers.
(Ref. : Q.A. Manual Section 9 pg. 3 of 3)

Assure that welders and welding procedures are qualified in accordance with the requirements of A.W.S. for Seismic class welding.

(Ref. : Q.A. Manual Section 10 pg. 3 of 8)

- 10) Verify that the Quality Control Inspector checks all items to assure that they were fabricated using the proper grade and kind of material.

(Ref. : Q.A. Manual Section 11 pg. 5 of 7)

10.

QUESTION

ACC	DEF	N.

11) Are all inspection tools individually tagged with an i.d. number, and calibrated as required?
(Ref. : Q.A. Manual Section 13 pg. 1 of 2)

ACC	DEF	N.

12) Verify that material is color coded per gauge and type of metal.
(Ref. : Q.A. Manual Section 14 pg. 2 of 5)

NO.

QUESTION

ACC	DEF	NA

3) Verify that purchasing enters each item received (raw material) on a master control sheet, and indicates necessary data to establish traceability.
(Ref. : Q.A. Manual Section 15 pg. 2 of 4)

14) Assure that no further work is performed on an item which has been identified as being in a non-conforming condition.
(Ref. : Q.A. Manual Section 16 pg. 2 of 8)

ACC	DEF	NA

QUESTION

Handwritten: with GFM 3/19

ACC	DEF	NA

Verify that the person signing the certificate of conformance has a means of assuring that the requirements of the purchase order have been met before the shipment is released.

Verify the document storage facilities are adequate for the maintenance, preservation, and protection of the quality assurance files. (Ref. 10CFR50 App. B)

ACC	DEF	NA

NO.

QUESTION

ACC	DEF	NA
-----	-----	----

17)

Verify that in-plant audits are performed at least once a year, and that the audit team members do not audit areas for which they have direct responsibility.
(Ref. : Q.A. Manual Section 19 pg. 1 of 4)



Commonwealth Edison
 LaSalle County Nuclear Station
 Rural Route #1 Box 220
 2601 N. 21st Rd.
 Marseilles, Illinois 61341
 815-357-6761

Handwritten:
 #5-
 File
 JEF

April 12, 1982
 QAL #5742

Mr. Martin L. Skates
 The Zack Company
 4600 W. 12th Place
 Cicero, IL 60650

SUBJECT: CECO Audit 1-82-45 Response Dated 3-25-82

Mr. Skates:

Response to our Audit 1-82-45 was received 3-30-82 and based on review of the information submitted, the following items must be clarified prior to closure of this audit:

FINDING #1 The documents submitted adequately address those items particular to Messrs. Geyer and Bodley but no indication of action taken to prevent recurrence was included in the Zack response.

FINDING #2 Review of the information included in the response is sufficient to explain the specific case discovered during the course of the audit, but the question of whether this was an isolated case was not addressed. In addition, no actions taken to prevent recurrence are indicated in your response.

Please submit the above information and/or clarifications on or before 4/26/82. If you have any questions concerning this matter please contact me (815) 357-6761, extension 573.

Handwritten: R.A. Braun 4/12/82
 R. A. Braun
 Q. A. Supervisor
 LaSalle County Station

RAB/cc

cc: G. F. Marcus
 T. E. Quaka/Q. A. File

Handwritten: JEF 4/15/82



Commonwealth Edison
LaSalle County Nuclear Station
Rural Route #1 Box 220
2601 N. 21st Rd.
Marseilles, Illinois 61341
815-357-6761

AS
F

June 9, 1982
QAL # 5889

Mr. Martin L. Skates
The Zack Company
4600 W. 12th Place
Cicero, IL 60650



SUBJECT: CECO Audit 1-82-45

Mr. Skates:

A review of your proposed "action to prevent recurrence" in regard to Findings #1 and #2 resulting from the above referenced audit was performed on June 9, 1982. Our analysis is indicated below:

FINDING #1

Contrary to Zack procedure PQCP-17, Rev. 0 (7-25-80), Auditor/Lead Auditor Qualification and certification records are not adequately maintained at their Cicero facility.

FINDING #2

Contrary to Zack's Quality Assurance Manual Section 9, Zack's material control program failed to provide sufficient traceability to the material used in the fabrication of HVAC components in all cases.

Contractor Response: Finding #1

Zack's Lead Auditor and Auditor Personnel Files has been reviewed and up-dated as required to meet the requirement of PQCP-17 para. 6..4.4. Attached you will find forms ZQF-36, ZQF-37 for Mr. Harry Geyer and ZQF-27, ZQF-36 and ZQF-37 for Mr. Edwin Bodley.

Contractor Response: Finding #2

1. For commercial reasons traveler F-1904 was prepared by the Chicago Drafting Department on 3-8-79 to satisfy the requirements of MM-104. (Note: All MM's are reviewed by Chicago Drafting Department).
2. Pc. # 4A was never fabricated.
3. Traveler F-515 was modified as shown on traveler F-1564. (Note: There was no piece number assigned at time of fabrication. A piece number has now been assigned.) The fitting was made from Coil #322 and Angle Iron #772 and welded in Chicago by welder #34.
4. M-1361 drawing shall be changed to reflect PC #22A instead of PC #22.
5. M-1361-2 drawing shall be changed to reflect PC #4 instead of PC #4A.
6. Traveler F515 (PC #22) will be reinstated and traveler F1904 will be voided.
7. Traveler 1564 will be modified to add PC #22A.
8. Traveler F515, PC #22 shall be voided.
9. FCR shall be developed to replace MM104 and to reflect above changes.

QA Review: Finding # 1

The documents submitted adequately address those items particular to Messrs. Geyer and Bodley but no indication of action taken to prevent recurrence was included in the Zack response.

Finding #2

Review of the information included in the response is sufficient to explain the specific case discovered during the course of the audit, but the question of whether this was an isolated case was not addressed. In addition, no actions taken to prevent recurrence are indicated in your response.

Contractor Response (Second): Finding #1

In order to prevent recurrence of the deficiency noted during the above referenced audit, the Q.A. department is developing a personnel matrix. This matrix will include all pertinent information needed to maintain personnel qualifications and also provide an easy reference of an individual's current qualifications and necessary additional requirements to upgrade qualifications.

Contractor Response (Second): Finding #2

A review of Travelers was conducted in conjunction with preparation of Travelers for turnover documentation. No other evidence of this type of deficiency was found. The likelihood of recurrence of this type of problem is minimized by the small amount of work remaining at LaSalle. The Zack Company site Q.C. Manager has been instructed to review all Travelers used by field fabrication to verify completeness. We feel that under the circumstances this is sufficient to prevent recurrence.

QA Review (Second): Finding #1

Mr. Skates was contacted by phone and requested to send a copy of referenced personnel matrix.

Contractor Response (Third): Finding #1

Please find attached a copy of Auditor and Q.C.I. Matrix per your request in response to CECO Audit 1-82-45.

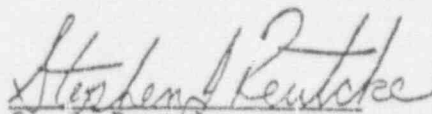
Final QA Review (Third): Finding #1

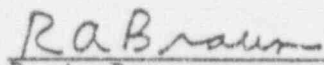
Based on the above action to prevent recurrence, the Auditor and QCI Matrix, and the monthly review committed to in said matrix, CECO feels that Zack has adequately addressed this Finding and that recurrences will be eliminated if this system is adequately implemented. This finding is closed.

Final QA Review (Third): Finding #2

The above corrective action and action to prevent recurrence is adequate. We feel that Zack's commitment to review all Travelers used by the field fabrication unit is proper. This Finding may be closed.

This audit is closed.

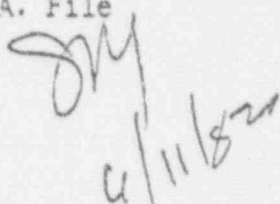

S. J. Reutcke
Q.A. Engineer


R. A. Braun
Q.A. Supervisor
LaSalle County Station

SJR/pjb

cc: T. E. Quaka/Q.A. File
G. F. Marcus

0059A



DATE _____
3/12/82
AS
JFK

QUALITY ASSURANCE MANUAL

AUDIT REPORT

#1-82-45

Type Audit: Program Audit Product Inspection Point
 Records Special

To:

Project LaSalle Visit Date 2/18-19/82 Report Date 2-26-82

System HVAC Component Identification N/A

Material Description N/A

Vendor Zack Company Location Cicero, Illinois

Subcontractor N/A Location N/A

Contacts M. L. Skates - O.A. Manager

P.O. No. 186466 Spec. No. J-2590

Recommended Inspections: 6 mos 3 mos 1 mo

Other: As Scheduled

Notes: Please respond to the deficiencies noted in Exhibit A by 3/19/82. Response must include corrective action taken and action taken to prevent recurrence.

Lead Auditor Ra Braun Date 2/26/82

Auditor Bruce Hoff Date 2-26-82

Reviewed Tom Quirk Date 2/26/82

cc: ~~Manager of QA 3-8-82~~
~~VP - Engineering~~
~~W. E. (Nuclear Operations)~~
~~Manager of State Const. Eng.~~
~~Manager of Projects~~
~~Station Nuclear Engin. Mgr.~~
~~OAD Manager~~

Director of QA (Engr-Constr)
Site Constr. Supt. or Proj
Engr.
Site Quality Assurance
Project Manager
Project Engineering Mgr.
(List others as required)
Auditee

C. Zack De Zurek President

8402100015

37-PP

Release

(5)

AUDIT # 1-82-45

ZACK COMPANY

CONDUCTED BY COMMONWEALTH EDISON QUALITY ASSURANCE

On February 18th thru 19th, 1982, the Commonwealth Edison Quality Assurance Department conducted a Special Audit of the Zack Company located in Cicero Illinois.

The intent and purpose of this Special Audit was to investigate quality related concerns that were brought to CECO Q.A.'s attention during the second week of February 1982. These concerns were in the areas of:

- (1) Lead Auditor Qualifications
- (2) Material Traceability
- (3) Zack Procurement
- (4) NCR Issuance
- (5) Records Storage & Filing
- (6) Documentation Alteration By Zack Company

The audit checklist consisted of 7 questions with the checklist scope covering the above six areas.

The audit resulted in 2 findings. The first finding is in the area of Q.A. Manager annual auditor evaluation and Auditor/Lead Auditor records keeping. The second deficiency involves material traceability for a section of HVAC duct. Details concerning these findings are contained in Exhibit A of this report.

Exhibit B identifies those individuals who were in attendance at the entrance and exit meetings.

Prior to the exit meeting, the individual who initially raised the quality concerns was contacted and interviewed by the Lead Auditor. He was provided with the opportunity to review the checklist and the audit results. Additionally he was asked if he had any concerns to add to those covered by this audit. He indicated that he had no additional concerns. He was invited to attend the exit by both Zack and CECO but chose not to attend.

Based on the results of the audit and the interview conducted during the course of the audit, it is the opinion of the audit team

that no new serious concerns exist with respect to the implementation of the Zack Company Quality Assurance Program within the scope of the audit checklist. The serious deficiencies that do exist have been adequately identified and are the subject of the 50.55E (#81-08) ✓ condition reported to the NRC on September 28, 1981. Zack is actively engaged in resolving this matter by appropriate corrective action.

With respect to the 2 deficiencies noted in Exhibit A, Zack Company is requested to respond on or before March 19, 1982 indicating the corrective actions taken and actions taken to prevent recurrence. Please direct your response to Mr. T. E. Quaka, Quality Assurance Superintendent, LaSalle County Station.

EXHIBIT A

ZACK COMPANY

AUDIT #1-82-45

FINDING #1 (Question 1) (QAM - Section 19) *Closed Surv.*

Contrary to Zack procedure PQCP-17, Rev. 0 (7-25-80), Auditor/Lead Auditor Qualification and certification records are not adequately maintained at their Cicero facility. This deficiency manifests itself in several ways as indicated below:

Discussion:

Item A - Zack procedure requires annual evaluation of Auditor and Lead Auditor Certification (para. 6.5.1). Review of the current status of Zack auditors/lead auditors indicates that H. Geyer was certified as Lead Auditor on 8-4-80. Paragraph 6.4.4 states that certification is valid for a period of one year. Evaluation of Mr. Geyer's Lead Auditor status by the Zack Q.A. Manager should have occurred on or before 8-4-81 and PQCP-17 requires documentation of this evaluation on form ZQF-37. No evidence of this evaluation was available for review.

Item B - Zack procedure requires auditor candidates to perform a minimum of one audit as an acting auditor under the supervision of a certified lead auditor per paragraph 6.3.1.2 and this participation is to be documented on form ZQF-37. Additionally, auditors candidates are required to demonstrate a minimum of six points based on education, experience, professional competence, and the rights of Management (para. 6.2.2). Additionally the auditors training record is required to be documented on form ZQF-22.

Review of Zack's Auditor/Lead Auditor records indicates that E. J. Bodley performed an audit on 2-15-82. No documented evidence was available at the time of the audit to indicate that Mr. Bodley received his required training and that he will score the six point minimum.

It is fully realized that only several days had passed between the 2-15-82 audit and audit #1-82-45 but Mr. Bodley's auditor qualification record folder is empty. Zack is therefore requested to submit copies of form ZQF-22, ZQF-37 and ZQF-36 for E. J. Bodley after auditor certification occurs.

Item C - The audit team's overall impression of the Zack Auditor/Lead Auditor Qualification records is that of confusion. Presently there are but 6 individuals certified as Auditor or Lead Auditor. There is a lack of consistency in maintenance of these documents and the documents themselves are in some ways redundant in their content. Some information unnecessarily appears several times on different forms while

Item C - Con't:

other information must be inferred by review of all auditor/lead auditor activities. It would be in Zack Company's best interest that their procedure for Auditor/Lead Auditor qualification be reviewed in an attempt to streamline the documentation requirements.

FINDING #2 - Question #2

Contrary to Zack's Quality Assurance Manual Section 9, Zack's material control program failed to provide sufficient traceability to the material used in the fabrication of HVAC components in all cases.

Discussion:

It was found that in one particular case, Traveler #F-515 identified the fact that fitting No. 4 was voided and replaced by fitting No. 4A on Traveler #F-1904 per Zack's Minor Modification form M/M #104. A review of this traveler #F-1904 showed the section of ductwork but failed to provide any indication of the material used. Upon investigation, this matter further in the field, it was determined that the fitting was not fabricated. Field verification showed another piece next to it had been changed instead.

Most of the problems which resulted in this case, were the results of some confusion which existed due to numbering errors. The M/M #104 identified the required change to involve piece No. 4 on drawing M-1361-2 by requested a new piece 4A. In reality, the M/M should have addressed fitting No. 22 which was eventually changed. Zack's drafting department changed piece No. 4 to 4A but should have revised piece No. 22 to 22A. To further confuse the issue, piece 22A was field fabricated without an apparent traveler to identify the material used. Per Zack's site Project Manager, the fitting in question was made from all stock material. Fitting No. 4 on traveler #F-515 was verified to be in the field and found acceptable as is.

Zack's practice of field fabricating components without the required documentation is unacceptable. Zack should investigate the matter further to determine if this was an isolated instance. For all cases found, nonconformances should be written to properly disposition the matter. Finally, Zack's segmented drawings should be revised to show the following:

Drawing #	Fitting Involved
1361-2	4A should be changed back to 4
1361-2	22 should be changed to 22A with the proper notation concerning M/M 104 placed on the correct traveler.

Zack's site QC and Project Managers were informed of this finding and were in agreement with its results.

AUDIT #1-82-45

ZACK COMPANY

(1) Attendees at Entrance Meeting - 2-18-82

<u>Name</u>	<u>Company</u>	<u>Title/Position</u>
M. L. Skates	Zack	QA Manager
R. J. Basiaga	Zack	QA Engineer
D. R. Malzahn	Zack	Vice President
D. E. Calkins	Zack	P.M./Midland Proj.
B. L. Wadd	CECo	QA Engineer
R. A. Braun	CECo	QA Supervisor

(2) Attendees at Exit Meeting - 2-19-82

C. Zack DeZutel	Zack	President
J. C. DeZutel	Zack	Exec. V. President
D. R. Malzahn	Zack	V. P.
M. L. Skates	Zack	QA Manager
D. E. Calkins	Zack	P.M./Midland Proj.
R. A. Braun	CECo	Q. A. Supervisor

Check Sear, Inc 2/10/82 U OK ROB
 Edgcomb Metals A 2/10/82
 Delta Screw 2/10

- A) Edgcomb Metals audit 2/10/82 was acceptable but AVL indicates unacceptable ^{audit status sheet for cont} audit U but ^{top of} OK ROB AVL - Proj 0
- B) Tuttle & Bailey no indication of audit Results on AVL audit performed 12/15-17/81 ^{internally performed} ^{left on AVL} F.U. to the ^{OK Proj allow}
- C) 10/20/81 memo suspending Δ Screw - how were they re-instated on the AVL (see note below)
- * D) Welstar on Both AVL and TAVL ^{Stamp exp 1/5/82 → moved to tentative} ^{mail new certificate}
- E) PO #1443 to Hilti did not have QA Renew Stamp on it (only one found) ^{received 11/2/81 letter from Welstar indicating} ^{cannot locate} ASME Stamp
- * F) FP Smith C PO #1708 not on AVL or TAVL ^{also PO #12285 11/6/78} ^{status not determined as of 2/29}

PTL on the tentative AVL list

appears on historic AVL last audited 4/16/81 Proj M&C mat L so what? then Proj B-3 allows! OK ROB @ 3:24pm

Reference: Page 5-3 of QAM in Objective Evidence which allows 4 conditions - any of which need be met to purchase from

- Δ Screw 1589
- 1590
- 1591
- 1592
- 1593
- 1594
- 1595
- 1596

} all 12/22/81

none between 11/1/81 & 12/21/81
 12/17/81 memo was issued to allow further manufacture lock on AVL OK ROB

CHECKLIST AND RECORD SHEET
LASALLE STATION

9/1/81

AUDIT OF: 1-82-45

AUDIT NO. J-2590

LEAD AUDITOR R. A. Braun

CHECKLIST APPROVED FOR USE R.A. Braun

PAGE 1 OF 4 DATE

No.	Question	ACC	DEF
1)	Are Zack's auditors properly qualified in accordance with approved procedures? (Ref. QAM Section 19 Page 1)		X

Reviewed auditor / Lead auditor records for all Zack ^{Ref:} personnel. If individuals are presently being used in the capacity by Zack, the objective evidence contained on the attached pages (page 1 to page 5) indicates that the following deficiencies exist: (1) Form ZQF-37 is not be utilized per para 6.3.1.2 and 6.3.2.2 of PQCP-17, Rev 0. (ref: item 1c of audit report)
 (2) H. Geyer's annual evaluation expired 8/4/81
 (3) E. Bradley had no records available for review

2) Does Zack's material control program provide traceability to the material used in the fabrication of HVAC components and that accepted for use? (Ref. QAM Section 9 page 1 & 2)

See next page for question 2

ACC	DEF	N
	X	

RAB

	Candidate	Date Qualified	Evaluation Date	
1	Elwin J Bodley	See other page		P
2	Martin L Skates	Lead Auditor	4/29/81	4/29/81 Ca
3	Raymond J Basinga	See other page		
4	Harry Geyer	Lead Auditor	8/6/79	8/4/80 IT
5	Kenneth Schaefer	auditor	2/27/81	2/20/81
6	John O'Connell	Lead Auditor	8/10/81	8/10/81 Ca

Procedure utilized is PQCP-17 Rev C titled: Performance of audits and vendor/supplier surveys, training, certification and evaluation of Quality Assurance Auditors - Performance of audit and vendor/supplier surveys. 7/25/80

Specific items req'd per PQCP-17

- ① Stock Company President (or designee) is responsible for the evaluation and certification of auditors and lead auditors (para 5.2.1)
- ② Lead auditor requires 10 points min (para 6.2.1)
- ③ Lead Auditor shall demonstrate oral & written proficiency in the English language. This shall be documented on Cert of Qual Form ZQF-37 (6.2.1.6)
- ④ LA & Auditors shall participate in one audit under observation of a certified lead auditor/auditor prior to certification as an auditor. Documented on Form ZQF-37 (para 6.3.1.2 & para 6.3.2.2)
- ⑤ Auditors require a minimum of 6 points (para 6.2.1)
- ⑥ Documentation of certification for LA & A is on ZQF-36 (para 6.4.1 & 6.4.2)
- 7 Certification good for 1 year (para 6.4.4)
- 8 Annual evaluation required (para 6.5.1) for LA & A. (ZQF-37 Form)

Name	Certification Signature	# Points Attained	ans/with prof ZQF-36	participate in an audit ZQF-37	Doc of certification ZQF-36	Annual audit certificate ZQF-37	Presently certified	Pr
------	-------------------------	-------------------	----------------------	--------------------------------	-----------------------------	---------------------------------	---------------------	----

Martin Skaten	Cashin - QA Mgr	11	4/21/81	NONE	10/9/81	10/9/81	YES	L
John O'Connell	Cashin - QA Mgr	10	8/11/81	NONE	8/11/81	8/11/81	YES	L
Harry Geyer	Thompson - QA Mgr	11/2	8/4/80	NONE	8/4/80	8/4/80	(NO)	L
Ray Basinger	Audit performed 1/11-11/82			will be certified auditor			OK	see page 3
Ed Bodley	Audit performed 2/15/82			"				
Ken Schrafer	D'Hamm - QA Mgr	6	2/27/81	NONE	2/27/81	2/20/81	YES	Books

- ✓ A) Schrafer is indicated as being certified from 2/27/81 through 2/22/84. This is contrary to para 6.4.1 of RAB 2/19/82
- ✓ B) Need documented evidence that President has designated QA Mgr to certify auditors & lead auditors per para 5.2.1 OK RAB see p 23
- ✓ C) Status of Basinger & Bodley not overrulent. Basinger status in accordance with para 6.3.1.2 OK
- ✓ D) Form ZQF-37 not being utilized per requirements of para 6.3.1.2 & 6.3.2.2
- ✓ E) H. Geyer not certified as of 2/18/82 certification expired 8/4/82. No annual evaluation performed per para 6.5.1. Note to Skaten 2/19/82. RAB
- ✓ F) Note to Schrafer is done 2/27/82!
- ✓ G) John O'Connell ANSI N45.2.6 cert on file does not identify area of qualification, this item to be appended in 1st quarter Code Copy audit. This is outside scope of checklist for 1-8: RAB 2/26

Ray Bosinga

trained to PQCP-11, ANSI 2.6, PQCP-17

ANSI N45, 2, 23 on 9/28/81

Zach ZQAM on 10/6 N45, 2: Dayton on 10/2 7220-
with SP on 1

ZQF-22 Signed by Cousins 10/20/81

Ed Bodley

no record of training available at Cues

Reviewed letter of 8/24/81 that appoints QA manager to act on behalf of the Zoch's President as with respect to evaluation and certification of QA/QC personnel required by Christine Zoch DeZurel. OK RB 2/19/82

Reviewed Ray Bosinga audit of Z. Sallee Site C/L # ZC-LS-001. M. S. Kates was lead auditor. OK RB 2/19/82

Review Ray Bosinga audit of 1/11/82 Done RB 2/14

QUESTION #1 Cont. page 1

Reviewed Edek's Internal Procedure for Training and Certifying Lead Auditors, # PQCP-17 Rev. 0 approved by Edek's Management on 7-25-80.

Upon reviewing this procedure, it was found to meet the intent of ANSI N45.2.23

The following records were reviewed:

1) Lead Auditor - John O'Connell

File contained: Training record, resumé, reading list
His L.A. certification showed him to have 18 po
→ Certified by D. Calkins QA Mgr. 8-11-81

→ Per Section 5.2, President or designee should sign

Form ZQF-37 dated 8-11-81 did not identify any spe audits.

→ ALSO: A certificate of Qualification to ANSI N45.2 signed by the President on 2-16-82 failed to identify the activities qualified to perform

2) LEAD AUDITOR - HARRY GEYER

His certification to ANSI N45.2.23 contained 11 1/2 points
⇒ and was also signed by QA Mgr. on 8-12-80.

⇒ Para. 6.4.4 L.A/A are qualified for a period of only one year.

3) R. BASIAGA

No certifications were on file

4) LEAD AUDITOR - M. SKATES

His certification to ANSI N45.2.23 contained 11 points,
was also signed by QA Mgr. on 10-7-81
Form ZQF-37 dated 10-9-81 did not identify any similar audits which were attended.

QUESTION #1 cont. page 2

5) ~~Miss~~ Auditor K. SCHARFAL

His certification was signed by QA Mgr. on 2-77-81 ...
it contained 6 prints.

Form # QF-37 dated 2-20-81 field is identify any
audits.

For the remainder of the objective evidence and the
final determinations made for this question
see other checklist. BWS 2/20/81

QUESTION #2 cont.

Reviewed Zack's Traveler system for evidence of
traceability. Per Zack's QA Engineer is system
is Zack's mechanism for both shipping material
to the site and for billing C.E.C.s. All material,
fabricated or pre-assembled shows up on Zack's
travelers.

To trace the actual material supplied, one must
do and see the following:

1) Each traveler will identify a Coil Control No. or Angle
Iron Control No. ... For Coils - this number is then
~~traced~~ traceable back to Zack's P.O.'s. For Angle Iron
the No. provided is the actual P.O. For pre-asse
components such as "Dampers" the EPN will
be listed. All damper documentation is
~~not~~ maintained together, traceable by EPN.

A representative sample of random travelers were picked
the the results were as follows:

QUESTION CONT
2

Travelers - Rx Bldg. EL. 740'

- F-488 [Coil # 136 - P.O. # 9409]
STEEL - P.O. 9432 / 9439
- F-1436 [Coil # 520 - P.O. # 649]
ANGLE IRON - 757
- P-372 [Coil # 572 - P.O. # 1128]
ANGLE - 1209
- F-513 ANGLE - 9242, [311] - DEF.
- F-504 ANGLE - 460, [9450] - DEF.
- F-1242 ANGLE - 460, 709, [711] - DEF.

SEE ATTACHED EXAMPLE < F-515 - PIECE 1361-2 MARKED VOIDED (Superseded by F-1904)
F-1904 - ALL MATERIAL TRACEABILITY No. BLANK.

Travelers Aux. Bldg. 786'6"

- F-931 [Coil # 313 - P.O. # 624]
ANGLE 9432, 606-2
- F-1513 [COIL # 606-2 P.O. # 1270]
ANGLE 636
PLUS DAMPER EPN'S.
[COIL # 386 - P.O. # [746]] - DEF.

Travelers Miscellaneous

- MACHINE RM. F-4474 [Coil # 411 - P.O. # 741]
Dampers EPN'S Plus P.O. # 12285
ANGLE - 830
- Rx II 786'6" F-2140 [Coil # 346 - P.O. # 643]
ANGLE - 1209
- F-3443 ANGLE 9762 (VOIDED) Superseded by P.O. # 9133

Also - Reviewed the following two loads to check Zack's current practices. These loads indicated the following:

- LOAD # 3482
F-4908 Dampers by EPN and ANGLE by P.O. # 1564
277 -

The P.O.'s marked DEF. have been previously identified in Zack's Material Deficiency List + 10CFR 50.55E. and therefore, will be resolved as part of that program. All other P.O.'s were checked and found acceptable as.

// The Problem with travelers F-515/F-1904 will be addressed and responded to by Zack.

A review of Zack's Receiving inspection system and associate reports showed the following:

Many of the original Receiving Inspection Reports have been misplaced. Those which could be located are attached to the P.O.'s involved. A log of receiving inspections is still available which showing the results, P.O. involved.

A review of Zack Current Receiving System showed an ~~adequate~~ adequate and effective method of checking both the physical and paperwork characteristics.

The ^{following} P.O.'s and the associated R.I. Checklists by QA were reviewed. Each P.O. file now contains the RI Report and traceability to the QA Checklist ~~to~~ which checked the Documentation and either accept or rejects it. A Source Inspection Checklist was also available for shipments sent directly to Zack's galvanizing Co. The SI assures proper material markings and dimensions prior to galvanizing. Once galvanized the materials then received at Zack's and the remaining forms are complete. This ^{entire system} was reviewed and found acceptable:

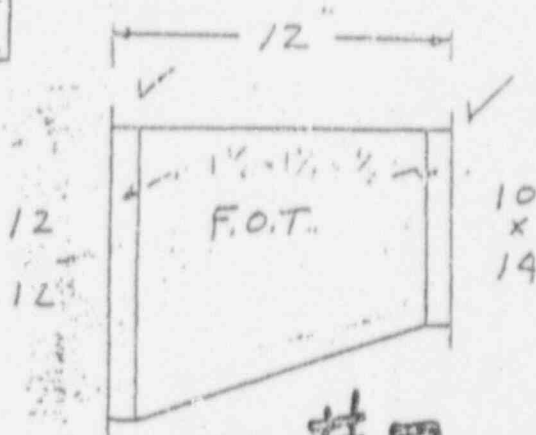
Question #2 Continued

P.O.# /with RIR	QA Checklist #	STATUS / RESULTS
1594	832-1/5	Acc.
1437	755	NCR L-198
1595	781	Acc.
1572	756	"
1575	805	"
1576	776	"
1577	796	"
1578	775	"
1582	SI	Not Paid / STILL AT GAWAN
1583	850	Acc.
1585	797	"

← LACK OF C. of C Material Hold

1594 1437 1595 1572 1575 1576 1577 1578 1582 1583 1585

MARK: 1361-2-45
GAUGE: 22
NO. REQ: 1



CUTTING LIST

22 GRS

13 1/2 x 2 7/8 Comp. F

13 1/2 x 1 1/2 x 1/2 x 1/2 Comp. F

13 1/2 x 1 3/8 - 1"

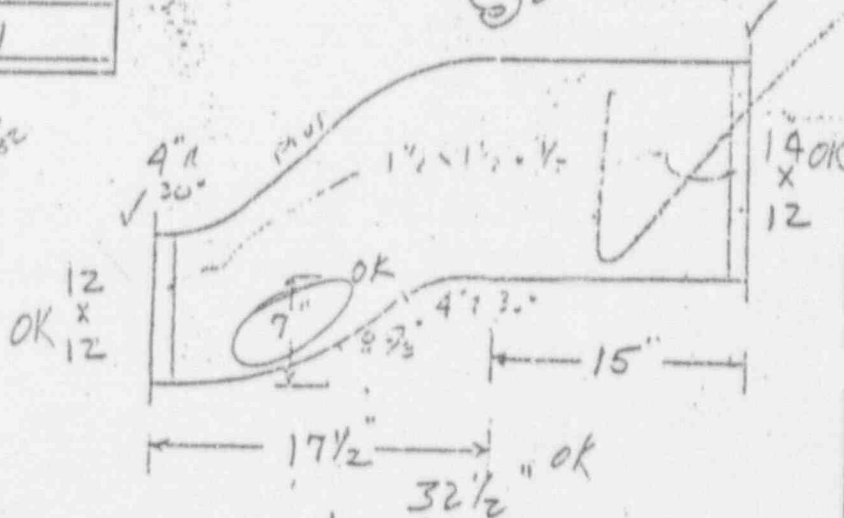
QUESTION #2 Pg. 3

CLASS-1 SEISMIC

MARK: 1361-2-4
GAUGE: 22
NO. REQ: 1

15/16 PITS

Installed per G-104 2/1/82



CUTTING LIST

22 GRS

3 3/2 x 2 1/2 - 2 P.S

8-0 x 1 3/8 - 1"

THIS FITTING VOID & REPLACED BY FITTING # 9A SPEC F-1904 AS PER M/M 104

QUALITY ASSURANCE

MATERIAL USED

OPT TICKET # REMOVED

OIL CONTROL NUMBER 134

ANGLE IRON CONTROL NUMBER 9459

INSPECTOR

SHIPPING FINAL INSPECTION

ON SITE RECEIVING

19-0 x 1 1/4 x 1 1/2 x 1/2 Comp. F

24 1/2 x 4 22 GRS

12.5

NO.

QUESTION

AC

X

RAB

- 3) Are only properly qualified suppliers placed on Zack's approved bidder's list after meeting the conditions identified?
(Ref. QAM Section 5 page 3)

Based on the objective evidence gathered it appears that Zack is meeting the requirements of their QA Manual - Sect 5. This item is found acceptable. Please refer to the attached 3 pages.

- 4) Does Zack's receiving inspections adequately identify shipments for which documentation discrepancies exist?
(Ref. QAM Section 5 page 3)

AC

NO.

QUESTION

AC' M'

3) Are only properly qualified suppliers placed on Zack's approved bidder's list after meeting the conditions identified?
 (Ref. QAM Section 5 page 3)

4) Does Zack's receiving inspections adequately identify shipments for which documentation discrepancies exist?
 (Ref. QAM Section 5 page 3)

ACC	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Bout
RLEB

SEE OBJECTIVE EVIDENCE PROVIDED FOR IN QUESTION #2 AND THE ATTACHED PAGES —

This question is acceptable based on the results found.
PLW
2-20-82

Audits in progress for 2/82

	Audit Date	Audit Status
Hobart North Welding Supply	2/9/82	Accepted
Delta Screw Co	2/10/82	Accepted
Seas Inc.	2/10/82	Unapproved
Edgcomb Metals	2/10/82	Accepted

AVL Entries (AVL = approved vendors list)

#	Company Name	Audit Date	QC/QA P.ing Required	Audit Status
1	Central Steel & Supply	10/30/81	yes 6/30/81	A
2	Clats Manufacturing			N
* 3	Delta Screw	2/10/82		A
	Note: Delta Screw Suspended 10/20/81			
4	D & J Metal Craft Co	8/28/81		F
5	Edgcomb Metals	2/10/82		L
	Note: F.U. Req'd within 30 days			
6	Green Metal Products		clamps, Hangers, Attachments	N
7	Fastener House			N
8	Hanlon Equipment Co			N
9	Hilti Inc.			N
10	Hobart North Welding Supply	2/9/82		F
11	Huck Mfg. Co.			N
* 12	Johnson Controls	4/15/81	yes per 3	F
* 13	Joselyn Mfg. & Supply Co.	10/30/81	yes 5/14/79 Q.A.M.	F
14	J.T. Ryerson & Son, Inc.	9/14/81		F
15	Star Spinning			N
* 16	Tuttle & Bailey	12/15/81	QC Manual Part D & T.B. 27	(F)
* 17	United Steel Products	10/23/81		F
* 18	U.S. Steel Supply	9/10/81		F
* 19	Viking Steel Company	8/20/81		F
* 20	Welstar Company	4/15/81	ASME Stamp # N-1224	F

Notes: asterisks above indicates entries on AVL - N/A 12/81
 Reviewed revision 1 dated 12/23/81 M indicates 12/17/81
 these were proper entries only NRC reviewed
 Fastener supplied

tentative approved AVL entries include 34 vendors supp

2/8/82

Delta Screw 2/10

- A) Edgecomb Metals audit 2/10/82 was acceptable but AVL indicates unacceptable ^{current} audit status sheet for con audit U but left on AVL - Prog. OK ROB
- B) Tuttle & Bailey no indicator of audit Results on AVL audit performed 12/15-17/81 ^{initially left on AVL E.U. to be performed via audit OK Program}
- C) 10/20/81 memo suspending Δ Screw - how were they re-instated on the AVL (see note below)
- * D) Weldstar on Both AVL and TAVL ^{Stamp spw 21/5/82 → moved to tentative mail memo certificate received 11/2/81 letter from Willstar indicating cannot locate ASME Sun}
- E) PO # 1443 to Hill did not have QA Review Stamp on it (only one found) ^{inquiry was received by customer prior to order}
- * F) FP Smith Co PO # 1708 not on AVL or TAVL ^{also PO # 12285 11/6/82 status not determined as of 2/29}

PTL on the tentative AVL list

Reference: Page 5-3 of QAM in Objective Evidence which allows 4 conditions - any of which need be met to purchase from

appears on historic AVL last audited 4/16/81
 Proj M&C not L
 so what? then print B-3 all over! OK ROB @ 3:24pm

- Δ Screw 1589
- 1590
- 1591
- 1592
- 1593
- 1594
- 1595
- 1596

} all 12/22/81

none between 11/5/81 & 12/21/81

12/17/81 memo was issued to all our fastener manufacturers look on AVL OK ROB

NO. . .

QUESTION

ACC. DES.

When documentation discrepancies are identified is the material properly controlled (on Hold) until receipt of all records? (Ref. QAM Section 5, page 1 & 2)

X

RAB

SEE OBSERVATION EVIDENCE FOR QUESTION #2 and THE ATTACHED PAGES.

⇒ Page 5 showed an example, P.O.#1437 in which an NCR-6198 was written to control the material until records or disposition is received.

Based on this review, this question is considered acceptable.

BLW
2-20-82

6) Does Zack's QC procedures insure that the quality requirements of the contract have been satisfied? (Ref. QAM Section 2 page 1)

ACC.

• NO.

QUESTION

AC' DE

- 5) When documentation discrepancies are identified is the material properly controlled (on Hold) until receipt of all records? (Ref. QAM Section 5, page 1 & 2)

- 6) Does Zack's QC procedures insure that the quality requirements of the contract have been satisfied? (Ref. QAM Section 2 page 1)

AC

X

pub

Based on the objective evidence contained on pages 1-3 (attached), this item is found acceptable.

Question # 6

Ref page 1 of Section 2 Q A Manual 3/1/77

Procurement
Material Receiving
Fabrication
Shipping

QAI # 1
Rev 0

Receiving inspection - Contract
to Procurement Drawings
11/25/81

QAI # 3
Rev 0

Records Management 12/

PQCP-15
Rev 1 7/14/80
Missouri Project

QAI # 4
Rev 0, 11/6/81

Control, Content and
Maintenance of
QA PO's / CMT
Files

Procurement to Drawings
used for Fabrication
and installation
of Tank Work

QAI # 10
Rev 1, 1/31/82

QA Inspection Summary
Inspection System for In-Plant
activities

5. Salk QA Manual Sections
5 8

QAI # 17A
Rev 0, 11/25/81

Cal of Outside Meter

Cover Procurement

QAI # 19

Inspection and Acceptance
of Section Class II
Pipework, Fittings, and
Appurtenances

Page 2, 3 contains a list of the procedures
utilized by Tanks. Based on a sampling of procedures
and review of contents it appears that the contract quality
requirements have been satisfied and this question is
found acceptable.

NO.

QUESTION

ANSWER

7. Does Zack's record retention system assure adequate storage of documents with respect to fire protection and retrievability?

X
-RAB

The following documents by type were reviewed to insure retrievability: Purchase orders, ^{Representations} CMT R's, receiving tickets, Invoices, purchase requisitions, audits, NCR's, trend analyses, General project correspondence, calibration records. Each of the were contained color coded folders to identify and separate the documents by project (Zasalle-Midland-Cinton) or they were kept in project specific cabinets. Records retrievability was found acceptable. Shop Fab tickets are stored in both engineering and the Shop. The Shop copy is the permanent copy. Again, retrievability was evident. This is accomplished by building, elevation, drawing info.

The records detailed above, with the exception of the fab tickets, are kept in the office area in a records room. The purchase and receiving related documents, including CMT R's, are kept in cabinets with a 1 hour fire rating. This is not in accordance with ANSI N45.2.9 requirements but Zack is not bound to this daughter document by P.O. ^{copy} The other stated records are stored in typical office files with no fire rating.

Zack indicated that it was their intention to upgrade the storage of documents to the 1 hr Fire rated for all types. Even though it was not a requirement by contract, the evidence of this activity is indicated above. In addition, all ^{permanent} records will be in a central location.

A more detailed review on the records issue at will be accomplished during the next G.O. audit of Zack. It is anticipated that this audit will be scheduled for March of 1982. It is a 2nd Quarter audit that will be performed in the first quarter due to these quality issues raised (in general)

therefore this item is found acceptable at this time to be followed-up in several weeks.

AUM'T. OF: 1-82-45

AUDIT NO. J-2590

LEAD AUDITOR R. A. Braun

CHECKLIST APPROVED FOR USE R.A. Braun 4/17/6
DATE

PAGE 1 OF 4

Question

ACC	DEF	NA

1) Are Zack's auditors properly qualified in accordance with approved procedures? (Ref. QAM Section 19 Page 1)

2) Does Zack's material control program provide traceability to the material used in the fabrication of HVAC components and that accepted for use? (Ref. QAM Section 9 page 1 & 2)

ACC	DEF	NA

NO.

QUESTION

ACC. DEF.

3) Are only properly qualified suppliers placed on Zack's approved bidder's list after meeting the conditions identified?
 (Ref. QAM Section 5 page 3)

4) Does Zack's receiving inspections adequately identify shipments for which documentation discrepancies exist?
 (Ref. QAM Section 5 page 3)

ACC	DEF	RA

NO. . .

QUESTION

ACC	DE	IN

When documentation discrepancies are identified is the material properly controlled (on Hold) until receipt of all records?
(Ref. QAM Section 5, page 1 & 2)

6) Does Zack's QC procedures insure that the quality requirements of the contract have been satisfied? (Ref. QAM Section 2 page 1)

ACC	DE	IN

NO.

QUESTION

ACC	DEF

Does Zack's record retention system assure adequate storage of documents with respect to fire protection and retrievability?

ACC	DEF	REF