

Certification Report

23 October 1987

THE ZACK COMPANY

POTENTIAL: 10CFR50.55(E)

REPORTABLE DEFECT EVALUATION
FOR
MATERIAL CERTIFICATION DEFICIENCIES

PREPARED BY

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Christine Zack DeZutel

CHRISTINE ZACK DEZUTEL, PRESIDENT

21

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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

2301 42
Report

1.0 DESCRIPTION OF DEFICIENCY

There has been a breakdown of the quality assurance program as related to criteria "VI - Document Control" and "VII - Control of purchased material, equipment and services", of Appendix "B" to Title 49, 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, AISI or other standard) or the full writing designation on sheet steel.

Signature missing:

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

Signature error:

These 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 of compliance that referenced 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 handwritten changes.

Chemical/Mechanical
test data:

These purchase order certifications which have
chemical analysis and/or mechanical test data
missing, or in 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
375
405
(1330)

860
900
1700
2800

1035
914
811
2820

3.1- MIDLAND STATION ONLY

343
550

r25

	550 (575) TOTAL	PERCENT
PURCHASE ORDER/CMTR PKGS REVIEWED	145 (343)	26 0.627
PACKAGES CORRECT & ACCEPTABLE.....	141	26 2.42
CLERICAL ERRORS.....	17	3
SIGNATURE MISSING.....	12	2
SIGNATURE ERRORS.....	47	9
CHEM/MECH TEST DATA.....	12	2 d
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.....		

$\frac{321}{375} + 58$

PURCHASE ORDER/CMTR PKGS REVIEWED	375 (433) TOTAL	PERCENT
PACKAGES CORRECT & ACCEPTABLE.....	159 (321)	42 0.856
CLERICAL ERRORS.....	118	31 2.05 x
SIGNATURE MISSING.....	16	
SIGNATURE ERRORS.....	9	
CHEM/MECH TEST DATA.....	13	
U.S. STEEL LETTER.....	1	-0-
C OF C ONLY.....	10	
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

245
405439
405
(34) x

PURCHASE ORDER/CMTR PKGS REVIEWED	(405) 439 TOTAL	PERCENT
PACKAGES CORRECT & ACCEPTABLE.....	109	27 0.6049
CLERICAL ERRORS.....	152	37 226 x
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	15
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 - These 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 on 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 typeface 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.

6.0 CORRECTIVE ACTION

The following corrective action is directed at providing a systemic correction which will:

1. Prevent recurrence through the establishment of a series of checks and balances.
2. Establish the individual responsibilities and provide the required authority to assure implementation.

6.1 PLANNED

- a) All existing procurement documentation will be revalidated for compliance to contract technical specifications and other design data.
- b) A document and records management program will be developed and implemented.
- c) A centralized documentation group and center will be established with specific guidelines.
- d) Procurement procedures and receiving inspection procedures will be developed and/or revised to include required quality review functions.
- e) Unauthorized personnel will be limited from access to records.
- f) A company wide training program on documentation and records will be developed and implemented.
- g) The Zack Company management will address improper actions taken by employees to date and establish a corrective action system for any future actions.
- h) Additional Quality Assurance/Quality Control personnel will be added as

- a) A documentation task force consisting of six (6) persons has been assembled. The group experience represent 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) Those person(s) involved in the modifications to material certifications have been identified and reprimanded by The Zack Company Ownership. This reprimand consisted of demotions in position and documented letters to the personnel files. An interview and feedback session was then

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 these 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 action by those individual(s), the responsible party(ies) have been advised that any further action of this type would result in immediate dismissal.

- 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) Completion of the centralized document center discussed above will put all records under lock and key and will limit access to only authorized personnel. This will be implemented by December 1, 1981.
- 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

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, (MPQAD Mgr.)
C.Z. DeZutel
J.C. DeZutel
C.L. Eichstaedt, Jr.
R.B. McCarley
Q.A. Chicago
Q.A. Midland

800 W. 12TH PLACE • CHICAGO (C RO) 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.

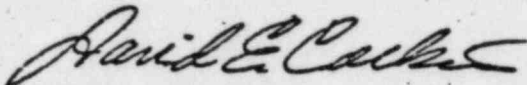
Pg. 2

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(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. LaRoche
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 date.

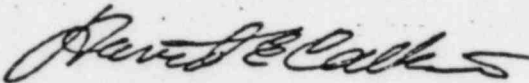
Pg. 2

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(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. DeZutel
C.L. Eichstaedt, Jr.
C. Baumgardner
Q.A. Chicago
Q.A. LaSalle

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:

<u>Clerical Errors</u> -	Lack of reference to "ASTM", revision year of standard, ASTM designation, or G-90 coating.
<u>Signature Missing</u> -	Lack of written signature on cert.
<u>Signature Error</u> -	Signature as typed and handwritten signature or initials not identical.
<u>Chemical/Mech Test Data</u> -	Chemical analysis and/or mechanical test data missing and/or not in accordance with ASTM Std. or Tech. Spec. requirements.
<u>U.S. Steel letter</u> -	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.
<u>C of C only</u> -	Packages containing only a certificate of compliance which appears to lack approval by Tech. Spec. change.
<u>No Cert of C of C</u> -	Packages which do not contain either a C of C or other certification and appear to require a C of C only.
<u>Certs Missing</u> -	Packages which are lacking only certs for certain item(s) or all certs.
<u>Anomalies</u> -	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.
<u>Alterations</u> -	Apparent alteration of certs by typing or handwritten changes.
<u>Stickers</u> -	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.
<u>Wrong Standard Referenced</u> -	Certification or C of C references a standard not applicable to the material(s) listed.
<u>Miscellaneous</u> -	Voided purchase orders, certs to standards not available to reviewers, "blanket" P.O. etc.

MIDLAND STATION ONLY

PURCHASE ORDER/CMTR PKGS REVIEWED	550	TOTAL	PERCENT
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 REFERENCED.....	24		4
CERTS MISSING.....	43		8
ANOMALIES.....	16		3
ALTERATIONS.....	31		5
STICKERS.....	6		1
MISCELLANEOUS.....	4		1

PURCHASE ORDER/CMTR PKGS REVIEWED	375	TOTAL	PERCENT
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

PURCHASE ORDER/CMTR PKGS REVIEWED	405	TOTAL	PERCENT
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

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

ALTERATIONSCLINTON STATION ONLY

- C-60 ~~sk~~ Carbon content (chemical analysis) white out and retyped.
- C-641 ~~sk~~ ASTM year added in different type face.
- C-643 ~~sk~~ ASTM year added in different type face.
- C-697 ~~sk~~ P.O. number changed on galvanizing cert.
- C-728 ~~sk~~ P.O. number changed on galvanizing cert.
- C-743 ~~sk~~ ASTM year added to cert.
- C-812 ~~sk~~ P.O. number changed on galvanizing cert.
- C-855 ~~sk~~ Number of pcs changed on galvanizing cert.
- C-914 ~~sk~~ "Kawin" cert., P.O. number changed.
- C-918 ~~sk~~ "G-90" added to cert.
- C-739 ~~sk~~ P.O. number changed on Pittsburgh Testing Lab. cert.
- C-946 ~~sk~~ Heat number changed on cert.
- C-1021 ~~sk~~ Heat number changed on cert.
- C-1022 ~~sk~~ Material description changed on cert cover letter.
- C-1044 ~~sk~~ P.O. number changed on galvanizing cert.
- C-1077 P.O. number changed on galvanizing cert.
- C-1118 ~~sk~~ ASTM year added to cert.
- C-1136 ~~sk~~ Heat number enhanced on Bethlehem Steel cert.
- C-1163 ~~sk~~ Cert cover letter, heat number typed over.
- C-1274 ~~sk~~ ASTM year added to J&L cert.
- C-4420 ~~sk~~ 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-642) ASTM year added in different type face.
- (C-642) ASTM year added in different type face.
- (C-742) ASTM year added to cert.
- (C-355) 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.

C-No.

456 - n.c.
 460 ~~ok~~ galvanizing
 466 - n.gal. n.p.
 470 ~~ok~~ galvanizing
 519 ~~ok~~ galvanizing
 577 ~~ok~~ c.c.
 582 ~~ok~~
 630 ~~ok~~ galvanizing
 687 ~~ok~~
 722 - n.c.
 785 partial
 801 ~~ok~~ galvanizing
 802 ~~ok~~ n.g.c.
 1089 - n.c.
 4014 - n.c.
 4034 ~~ok~~
 4100 ~~ok~~ c.c.
 4102 ~~ok~~
 4267 ~~ok~~
 4334 ~~ok~~
 4331 ~~ok~~ n.gal.
 12303 ~~ok~~ c.c.
 14212 ~~ok~~
 4354 ~~ok~~ c.c.
 507 ~~ok~~
 637 ~~ok~~ galvanizing
 645 ~~ok~~ galvanizing
 666 ~~ok~~ galvanizing
 689 n.c.
 761 ~~ok~~
 867 - n.p. n.gal.
 1138 ~~ok~~
 4021 ~~ok~~
 4122 ~~ok~~
 4131 ~~ok~~
 4262
 8314 - 760c
 11503 - n.c.
 12310 ~~ok~~ c.c.
 12340 ~~ok~~ c.c.
 12982 - n.c.
 13295 - n.g.c.

576
 577
 —
 578

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 STATIONC-No.

561 - N.C.

704 - N.C.

(566) *ok*(737) *ok*(720) *ok*(801) *ok*(802) *ok* N.C. *ok*(817) *ok*

1108 - O.C.

1135 - N.C.

(3114) *ok*(4004) *ok* C.C.(4202) *ok*(4116) *ok*

4122 - N.C.

(4130) *ok*(4137) *ok* C.C.(4178) *ok*(4223) *ok*(4262) *ok*(4350) *ok*(4406) *ok*(4427) *ok*(4455) *ok*-12256 - C.C. *ok* *ok* *ok*(12265) *ok* C.C.(12279) *ok* C.C.

Note: See comments on Page 12

C-No. C-No.
 (470) - *ok* (773) *ok*
 (474) - *ok* (775) *ok*
 (520) *ok* 9422 - u.c.
 572 u.c. (13207) *CofC*
 (605) *ok* (13246) *CofC*
 (627) *ok* *Army*
 (636) *ok*
 (637) *ok*
 (642) *ok* *Army*
 (645) *ok*
 (658) *ok*
 (666) *ok*
 (683) *ok* *no p.*
 (684) *ok*
 704 - u.c. (2 items)
 (711) *ok* *no p.*
 722 - u.c. (4)
 736 - u.c.
 (790) *ok* *ok*
 (797) *ok*
 799 - u.c.
 (813) *ok*
 (811) *ok* *no p.* *no gal. cuts*
 (811) *ok*
 4014 - u.c.
 (6021) *ok* *CofC*
 (4093) *ok*
 (4105) *ok* *CofC*
 (4108) *ok* *CofC*
 (4137) *ok* *CofC*
 (4143) *ok*
 4268 - u.c.
 (4337) *ok*
 (4349) *ok* *CofC*
 (4455) *ok*
 5776 - u.c.
 (9247) *ok* *u. gal. c.*
 (9427) *ok* *u. gal. c.*
 (9441) *ok* *u. gal. c.*
 (9447) *ok* *u. gal. c.*
 (9455) *ok* *u. gal. c.*
 (9505) *ok* *no p.o.*
 9506 - *ok* *no. cuts*
 (12303) *ok* *CofC*
 (12346) *ok*
 522 - u.c. *no. cuts*
 (511) *ok*
 (511) *ok*
 (515) *ok*
 549 - u.c.
 552 - u.c.
 (554) *ok* *CofC*
 (561) *ok*
 (583) *ok*
 (584) *ok*
 (586) *ok*

572
 704
 722
 736
 798
 4014
 4268
 5776
 9506
 522
 549
 552
 9422

} 13

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 *ok*
 548 *ok* *Disrupt pt.*
 592 *ok* *Silastri*
 800 - missing
 922 - missing
 1000 - missing
 1007 - missing
 1402 *ok*
 4000 - missing
 4160 *ok* *Weld. Qual*
 4195 *ok* *Weld. Qual*
 4197 - *no test records*
 4216 *ok* *Weld*
 4313 *ok* *Weld. Qual*
 4396 *ok* *Weld. Qual*

5 { 800
 922
 1000
 1007
 4000

10 - found

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 3711

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.

9

Kamille

October 30, 1981
LCS 2752

TO: J. J. Maley, Manager of Projects
B. B. Stephenson, Project Manager
L. O. DelGeorge, Nuclear Licensing Administrator
W. J. Shewski, Manager of Quality Assurance
T. E. Quaka, Site Quality Assurance Superintendent

FROM: L. J. Burke

SUBJECT: Interim Report on Reportable Deficiency LCS #81-08;
Zack Company Documentation Deficiencies

An evaluation report dated October 23, 1981 has been submitted by the Zack Company. Included in the report are descriptions of the deficiencies, found during the quality review, corrective action and planned action to prevent recurrence. Initial indications are that a reportable deficiency does not exist.

Commonwealth Edison Company is still reviewing the following:

- a. Corrective action planned by Zack Company
- b. Required engineering resolution for material with indeterminate or unacceptable material properties. Information available indicates that the properties will be able to be obtained or determined to be acceptable.

The final report is expected to be complete by December 1, 1981. If further information is required, please contact us immediately.



10/30/81

L. J. Burke
Project Construction Superintendent

DS/st

cc: B. R. Shelton
T. E. Watts
E. J. McAndrew
R. E. Holyoak
P. P. Manning
W. H. Donaldson — !

16



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



November 2, 1981
LSC 226

Christine Zack DeZutel, President
Zack Company
4600 W. 12th Place
Chicago, IL 60650

SUBJECT: Zack Company Report on Potential Documentation
Deficiencies dated October 23, 1981

Dear Christine:

We have received the referenced report and are essentially in agreement with its contents. However, additional information is urgently needed for engineering to expeditiously evaluate the indeterminate or unacceptable material properties. Specifically nonconformance report(s) must be submitted to this office detailing material certifications that are not in accordance with the S & L specifications and/or ASTM standards. Non-conformance reports are not required for documentation deficiencies that Zack Company can correct. Due to commitments we have with the NRC, non-conformance reports are required to be submitted no later than November 13, 1981. We have spoken to M. Caulkins who is in agreement with this request.

If any additional information or clarification of the technical requirements is needed, please contact Dan Skoza or myself.

W. H. Donaldson

cc: B. J. McAndrew
T. E. Quaka
D. Skoza

Bechtel Power Corporation

Post Office Box 2167
Mallard, Michigan 48640



December 21, 1981

The Zack Company
4600 West 12th Place
Chicago (Cicero), Illinois 60650

Attention: Mr. R. Greune

Job 7220 Midland Project
Subcontract 7220-M-151
Material Documentation Deficiencies
Safety Evaluation
M-151-B-1418

Dear Mr. Greune:

Reference: (1) Zack Letter 7220-M-151-C/B - 538 - 8/28/81
(2) Zack Letter 7220-M-151-C/B - 552 - 10/23/81

The above-referenced letters identify potential deficiencies in material documentation and request Bechtel's evaluation of reportability under 10 CFR 50.55(e). The following is Midland Project Engineering's safety evaluation of the material documentation deficiencies identified in the referenced letters.

Statements herein attributed to D. Calkins (Zack QA Manager) were made in discussion with D. Appel on November 3, 1981, November 6, 1981, and November 9, 1981.

Deficiencies identified by Zack require resolution to validate Zack's compliance to specification requirements. However, only documentation deficiencies which result in unacceptable or indeterminate material properties could potentially result in a safety concern.

a. Materials with unacceptable properties:

1. D. Calkins has assured the validity of the following statements:

- (a) All identified physical test data deviations are presently acceptable based on our revised sheet metal minimum yield strength requirement of 30 ksi.

December 21, 1981

(b) No chemical analysis data deviate from material standard requirements.

b. Materials with indeterminate properties:

It is highly probable that Zack ordered correct materials for the Midland project from their subtier vendors and that the vendors' intent was to comply with Zack's purchase order requirements. This statement is based on discussion with D. Calkins and supported by the following points:

1. Reference (2) identifies that 26% of the Zack purchase order/certified material test report packages reviewed were correct and acceptable, and, according to D. Calkins, an additional 26% contained only clerical errors.
2. Materials required by the specification are not exotic (e.g., not quenched and tempered or high strength and low alloy).
3. Because commercial type materials are specified, substitution of materials by subtier vendors is unlikely to be economically advantageous.
4. The range of properties of carbon steel material readily available on the market does not deviate substantially from material standards specified.
5. Where material physical or chemical test data are missing, extreme deviation from material standard and specifications requirements would be necessary before impairing minimum material performance requirements.
6. Zack stated in Reference (1), "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."

Zack notified the general contractors of the Clinton and LaSalle power stations of similar deficiencies. D. Calkins informed us that in accordance with 10 CFR 50.55(e), both stations conducted safety evaluations and advised the NRC of an indeterminate safety concern. Our discussion with Zack and the LaSalle station revealed that the conclusion of an indeterminate safety concern was based on preliminary and superficial information similar to that contained in Reference (1). The Midland station evaluation is based on the greater detail provided in Reference (2).

December 21, 1981

As previously cited, Zack's corrective action program will identify and resolve all documentation deficiencies, including proper disposition of materials with indeterminate or unacceptable properties. Because this deficiency appears, at this time, to be a documentation concern rather than a concern for the ability of supplied materials to perform their safety functions, we conclude that even if this deficiency were to remain uncorrected, it would not have adversely impacted the safety of operations at the Midland plant.

Very truly yours,

RW Solubuh for

L. E. Davis
Site Manager

LED/RCA/lb

12



CUSTOM METAL FABRICATION

November 12, 1981

Mr. J.W. Cook
Vice-President, PESC-Midland Site
Consumers Power Company
1945 Parnall Road,
P-26-336-B
Jackson, Michigan 49201

Dear Mr. Cook,

The Zack Company would like to express our sincere gratitude to Consumers Power Company for the loan of your employee, Mr. Howard McGrane, for the total document control audit of our Corporation.

His professionalism, expertise and demeanor are a credit to his employer and himself.

Concurrently, we deeply appreciate the opportunity afforded to us, to validate the good reputation and name we sincerely have fought to maintain and vindicate.

Sincerely,

Christine Z. DeZutel
Christine Z. DeZutel,
President

CZD/br

cc: Mr. H. Leonard
~~Mr. H. McGrane;~~

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

13



Commonwealth Edison
LaSalle County Nuclear Station
Rural Route #1 Box 270
2601 N. 21st Rd.
Marseilles, Illinois 61341
815-357-6761

February 3, 1982
QAL #5376

Zack Company
4600 W. 12th
Cicero, IL 60650

ATTENTION: Mr. C. Eichstaedt

REFERENCE: LaSalle QA Surveillance Report No. 82-50

Dear Mr. Eichstaedt:

Attached, please find the above referenced surveillance for which a response is requested by 2-17-82.

It appears that the following three (3) items require resolution:

- 1) Item D identified Zack's P.O. #C-9504 for which a required Certificate of Conformance could not be produced as required.
- 2) Item G identified Zack's P.O. #C-9509 for which a required Certificate of Conformance could not be produced as required.
- 3) Item H identified the fact that traceability to specific equipment piece numbers could not be verified. Zack should supply a traceability system acceptable to CECO, upon submittal of final turnover records.

It should be noted that Zack's QC was in the process of reviewing all purchase orders generated for use at LaSalle. The particular P.O.'s identified in 1 & 2 above had not been reviewed to date. A serious effort should be made to complete this review so that all problem areas are known.

Any questions regarding the information contained within this surveillance should be directed to Bruce L. Wood on (815) 357-6761 extension 565.

Yours truly,

T. E. Quaka 2/3/82

T. E. Quaka
Q. A. Superintendent
LaSalle County Station

BLW/ccc

cc: W. J. Shewski/G. F. Marcus*
T. E. Quaka/Q. A. File*

~~Letter Only~~

Surveillance Date: January 26, 1982

File No. J-2590.26

LASALLE Q.A. SURVEILLANCE REPORT NO. 82-50

Contractor/Organization Observed: Zack Construction Company (2)

Item Observed:

Based on this record review, the status of the following Deficiency Reports is as noted below:

PT-VC-101-189	- Closed
PT-VC-101-411	- Closed
PT-VE-101-123	- Closed
PT-VE-101-129	- Closed
PT-VE-101-308	- Closed
PT-VP-103-12	- Closed
PT-VK-101-37	- Closed
PT-VK-101-88	- Closed
PT-VK-101-141	- Closed

On 1-21-82, it was verified that for the items shown in the above deficiencies, sufficient records exist to satisfy the procurement requirements at Zack's Corporate Office. It was further shown that these records had been reviewed and accepted by Zack's QA for use at LaSalle.

S&L's ECN # 624, deleted the requirements for submitting on-site contractor documentation (such as Zack's) to S&L for review. This review is now the responsibility of Zack Company and is being verified by the Owner, through the audit and surveillance Program. Based on this change, S&L's letter accepting Zack's documentation is no longer required.

This surveillance assured that the following documentation was available for turnover:

Meeting notes dated 6-18-76 between S&L and Zack Company clarified the Spec.'s documentation requirements and supplied the following determinations:

- 1) Safety related items (such as sheet steel, stiffener and support steel) actual CMTR's are required.
 - 2) All other safety related hardware only a Certificate of Conformance is necessary.
 - 3) All non-safety related items only a Certificate of Conformance is required.
- A) Zack's P.O. #C-9505 to American Warming and Ventilating Co. was to furnish and deliver all dampers in accordance with Spec. J-2590.

For each item shown on the deficiencies as dampers (such as 1VX36Y or 0VC04YB), a C. of C. was verified to be on file.

Zack's P.O. #C-9503 to American Air Filter Systems was to furnish and deliver all filters in accordance with Spec. J-2590.

For each item shown on the deficiencies as filters (such as 1VX01F), a C. of C. was verified to be on file.

- C) Zack's P.O. #C-9501 to Titus Manufacturing Company was to furnish and deliver all grilles, registers, diffusers and terminal mixing boxes in accordance with Spec. J-2590. A C. of C. for all supplied material was verified as being on file.

- D) Zack's P.O. #C-9504 to Air Filter & Equipment Corp. was to furnish and deliver all air silencers in accordance with Spec. J-2590.

For each item shown on the deficiencies as silencers (such as OVE03X or 1VX01X) a C. of C. could not be located, therefore the deficiencies remain open. (PT-VE-101-1046 and PT-VX-101-389)

- E) Zack's P.O. #C-9506 & C-12345 to Air Filter and Equipment Corp. was to furnish and deliver all air monitors in accordance with Spec. J-2590.

For each item shown on the deficiencies as air monitors (such as OFE-VE003), a C. of C. was verified to be on file.

- F) Zack's P.O. #C-9511 to Armstrong Company was to furnish and deliver all humidifiers in accordance with Spec. J-2590.

For each item shown on the deficiencies as humidifiers (such as OVE01MA) a C. of C. was verified to be on file.

- G) Zack's P.O. #C-9509 to RMC was to furnish deliver all air conditioning accessories in accordance with Spec. J-2590.

For each item shown on the deficiencies as AC accessories (such as ORG051 or OR056B), a C. of C. could not be located and therefore, the deficiency remains open (PT-VE-101-1046)

- H) Many of the C. of C.'s identified above were found to be generic for all the items supplied against a particular P.O.. These C. of C.'s are acceptable, however, at turnover Zack must state all applicable equipment piece numbers which apply, to assure traceability. This item remains open until Zack's written acceptance is received.

Corrective Action Taken:

Zack's Mr. C. Eichstaedt was informed of these items requiring corrective action, in particular items D, G & H.

Follow Up Action:

The written response and all corrective action will be reviewed and accepted by CECO Q.A..

Due to the multiple listing of items on some deficiencies, the original deficiency has been closed and a new deficiency written to track only the open items.

PT-VE-101-123, 129 and 308 were combined and a new deficiency PT-VE-101 was written to identify the open items only.

PT-VX-101-37 was closed and a new deficiency PT-VX-101-388 was written to identify the open items only.

Reported by: Bruce R. West Date: 7-1-82

Approved by: Tom Quaka Date: 7/1/82

FU Action Verified: _____ Date: _____
QA Eng./Insp.

FU Action Approved: _____ Date: _____
QA Supervisor

cc: W. J. Shewski/G. F. Marcus
R. Cosaro
T. E. Quaka/Q. A. File
L. H. Lauterbach/P. M. Berry
M. Jasurda/Start-Up

14

LASALLE COUNTY NUCLEAR ACTION

CONTENTS - BOOK I

- A. P.O./CMTR ACCOUNTING LIST
- B. DISCREPANT P.O./CMTR LIST
- C. NCR NO.'S (OPEN/CLOSED) LIST
- D. COMPANY - MATERIAL - DISCREPANCY -
NCR - CORRESPONDENCE LIST
- E. WELDER QUALIFICATION P.O./CMTR LIST
- F. LASALLE ACCESSORY LIST

A.

P.O./CMTR ACCOUNTING LIST

THE FOLLOWING LIST IS AN UP TO DATE ACCOUNT-
ING OF THE P.O./CMTR STATUS FOR THE LASALLE
SITE AS MANIFESTED BY THE ZACK COMPANY.
THIS LIST DOES NOT INCLUDE THE P.O.
NO.'S OF WELDER QUALIFICATIONS.

B.

DISCREPANT P.O./CMTR LIST

THE FOLLOWING LIST INCLUDES THOSE P.O./CMTR
NO.'S CULLED FROM THE ACCOUNTING LIST THAT
REMAIN WITH MINOR/CLERICAL DISCREPANCIES.
THESE MINOR/CLERICAL DISCREPANCIES DO NOT
DETER FROM THE INTEGRITY OF THE MATERIAL/
MATERIALS CONCERNED.

451	*516	*548	*608	*643	*689	*735
452	517	*549	*609	*644	*693	736
*454	*519	*562	*610	*645	*695	737
*455	520	*563	*611	*646	*696	*738
*456**	521	*565	*612	*647	*697	*739
*460	522	*566	*613	*648	*698	*740
*462	*523	*567	*614	*649	*699	*741
*463	524	*568	*615	*650	*701	*742
*464	*525	569	616	651	*702	*743
*465	*526	*570	617	*652	*703	*744
*467	527	572	618	*653	*704	*745
*468	*528	*582	619	655	*706	*746
*470	529	583	*620	*658	707	*747
*472	530	584	*621	*662	*709	*750
*474	531	585	*622	*663	*711	751
475	532	*586	*623	*664	*712	*752
477	533	587	*624	*665	*714	*753
478	534	588	*625	*666	*715	*754
501	*535	590	*626	667	*717	*755
502	*536	591	627	*668	*719	*757
*504	537	592	628	*669	721	*758
505	538	593	*630	*672	*722	*759
*506	539	*594	*632	*674	723	*760*
*507	540	597	*633	*676	*724	*761
508	541	*601	634	*677	*726	*762
509	542	*602	635	678	*727	*763
511	*543	*603	*636	*679	729	*764
*512	544	*604	*637	*682	*730	*765
513	545	*605	*639	683	*731	766
514	546	*606	*641	*684	*733	767
515	*547	607	*642	*686	*734	*768

** - Material apparently sent to Flint

*# - All ~~_____~~
Sites

*769	*812	*871	*938	*1008	*1095	*1167
*770	*813	*872	*939	*1011	*1101	1168
*771	*814	*873	*943	*1017	*1102	*1169
*772	*816	879	*944	*1019	*1103	*1170
*773	817	881	*946	*1022	*1104	*1175
*775	818	*882	947	*1026	*1105	*1176
*778	*819	883	*949	*1027	*1106	*1178
*779	*820	*884	*952	*1028	*1107	*1179
*780	*821	*885	953	*1029	*1113	1182
*781	*822	*887	*954	*1031	*1116	1183
*782	*823	*888	*955	*1032	*1121	*1186
*784	*824	*889	956	*1038	*1123	*1187
*786	*826	893	*959	*1041	*1124	*1188
*787	*827	*902	*960	*1045	*1126	*1190
*789	*828	*905	*961	1046	1127	*1191
*790	*830	909	*962	*1048	*1128	*1193
*791	*831	*910	*963	*1049	*1130	*1194
793	832	*912	*966	*1054	*1131	*1195
794	*834	*913	*968	*1055	*1132	*1197
*795	*838	*914	*970	*1056	*1134	1198
*796	*839	*915	973	*1057	*1135	*1201
*797	*842	*916	*978	*1060	1142	1203
798	*849	*917	*982	*1070	*1143	*1204
*801	*850	*918	*983	*1071	*1147	1205
*802	*851	*923	*985	*1076	*1152	*1209
*803	852	*928	*986	*1079	*1153	1211
*804	*853	*929	*986-R	*1080	1154	*1230
*806	*857	*930	*987	*1085	*1155	*1231
*807	*858	*931	*988	*1089	*1157	*1232
*808	*859	*932	992	*1090	*1159	*1235
*809	*862	*934	*1002	1091	*1161	*1238
810	*864	*935	*1005	1093	*1162	*1241
*811	869	*937	*1006	1094	*1163	*1244

1246	1327	1423	1518	*1674	*4014	*4103
*1249	*1329	1424	*1519	1675	*4016	4104
*1253	1330	1427	*1520	1678	*4021	4105
*1255	*1331	1437	*1527	1680	*4022	4106
*1256	*1333	1443	*1532	*1690	*4023	*4107
1261	*1334	1444	1533	1706	4024	*4108
1263	1344	*1451	1538	1708	*4027	4114
1264	1351	1452	1545	*1709	4031	4118
1265	1353	1453	1548	1715	4036	*4119
*1267	*1358	1454	*1551	*1717	*4037	4124
*1268	*1359	1459	1557	1722	4038	4127
*1269	*1360	1467	1558	*1728	4039	*4129
*1270	*1361	1468	1563	*1729	*4040	*4133
*1271	*1362	*1469	1564	*1730	*4045	*4137
*1274	*1363	*1471	1566	*1731	*4048	*4139
1276	1366	1472	1578	*1732	*4050	4140
1277	*1377	1474	1585	*1733	*4051	*4141
1282	*1378	1475	1589	*1734	4052	4142
*1285	*1395	*1477	*1590	*1735		4143
*1286	1392	1482	*1595	*1736	*4055	4146
*1287	1393	1483	*1596	*1737	*4056	4151
*1288	1397	1486	1597	*1742	4065	4153
*1290	1399	*1489	*1604	*1743	4066	4157
*1291	*1401	1496	*1605	*1744	*4068	*4158
*1294	1407	1497	*1606	*1776	*4072	4161
1295	1409	1498	1612	G3111	4077	*4165
1298	*1410	1500	*1626	*G3114	*4080	4168
*1300	*1411	1502	1627	G3142	*4081	*4171
*1309	*1412	1503	1645	*G3150	*4091	4180
1311	1413	1510	*1654	*4002	*4092	4181
1320	1414	1511	1662	*4004	*4097	4182
*1322	*1418	1513	*1664	*4007	*4101	*4183
1326	*1421	1516	1671	*4011	*4102	*4188

1246	1327	1423	1518	*1674	*4014	*4103
*1249	*1329	1424	*1519	1675	*4016	4104
*1253	1330	1427	*1520	1678	*4021	4105
*1255	*1331	1437	*1527	1680	*4022	4106
*1256	*1333	1443	*1532	*1690	*4023	*4107
1261	*1334	1444	1533	1706	4024	*4108
1263	1344	*1451	1538	1708	*4027	4114
1264	1351	1452	1545	*1709	4031	4118
1265	1353	1453	1548	1715	4036	*4119
*1267	*1358	1454	*1551	*1717	*4037	4124
*1268	*1359	1459	1557	1722	4038	4127
*1269	*1360	1467	1558	*1728	4039	*4129
*1270	*1361	1468	1563	*1729	*4040	*4133
*1271	*1362	*1469	1564	*1730	*4045	*4137
*1274	*1363	*1471	1566	*1731	*4048	*4139
1276	1366	1472	1578	*1732	*4050	4140
1277	*1377	1474	1585	*1733	*4051	*4141
1282	*1378	1475	1589	*1734	4052	4142
*1285	*1385	*1477	*1590	*1735		4143
*1286	1392	1482	*1595	*1736	*4055	4146
*1287	1393	1483	*1596	*1737	*4056	4151
*1288	1397	1486	1597	*1742	4065	4153
*1290	1399	*1489	*1604	*1743	4066	4157
*1291	*1401	1496	*1605	*1744	*4068	*4158
*1294	1407	1497	*1606	*1776	*4072	4161
1295	1409	1498	1612	G3111	4077	*4165
1298	*1410	1500	*1626	*G3114	*4080	4168
*1300	*1411	1502	1627	G3142	*4081	*4171
*1309	*1412	1503	1645	*G3150	*4091	4180
1311	1413	1510	*1654	*1202	*4092	4181
1320	1414	1511	1662	*4004	*4097	4182
*1322	*1419	1513	*1664	*4003		*4183
1326	*1421	1516	1671	*4011	*4102	*4188

*4191	4288	4468	9244	*9427	9463	9497
4192	4289	4469	*9246	*9428	9464	9498
4193	*4292	4470	*9247	*9429	9467	*9499
4199	4294	4471	*9248	*9432	9468	9500
*4202	*4318	*4478	*9251	*9433	*9469	9501
4204	*4327	*4486	*9355	9434	9470	9502
4205	4337	*4487	*9401	9435	9471	9503
*4209	4339	*4492	*9402	9436	9472	9504
*4210	*4341	4496	*9403	9437	9473	9505
*4211	*4342	*4502	9404	9438	9474	9506
4212	4343	*4505	9405	9439	9475	9507
*4216	*4344	*4507	9406	*9441	9476	9509
*4217	4348	*4509	*9407	9442	9477	9510
*4226	4351	*4510	*9408	9444	9478	9511
*4229	*4353	*4512	*9409	*9445	9479	9513
4230	*4360	*4513	*9410	9446	9480	9515
4236	4370	4516	*9411	*9447	9481	9517
*4245	*4397	4552	*9412	*9448	9482	9519
*4246	*4402	4556	*9413	*9449	9483	9521
*4251	4407	4558	9414	*9450	9484	9522
4253	4408	4559	9415	9451	9485	9524
*4254	4424	4560	9416	9452	9486	9531
4259	4426	*5759	*9417	9453	9487	9532
*4262	4428	*5776	9418	9454	9488	9533
*4266	*4430	*6365	9419	9455	9489	9534
4268	*4438	*6813	9420	9456	9490	9605
4270	4439	*6819	9421	9457	9491	*9626
*4271	*4440	*7252	9422	9458	9492	9762
4276	*4455	*7522	9423	9459	9493	*9939
*4279	4456	*7727	*9424	9460	9494	9957
4285	4464	*9208	*9425	9461	9495	10103
*4296	4465	*9242	*9426	9462	9496	*10124

*10281	11428	*12281	12596	13259	16360
*10424	11449	*12284	*12702*	13264	16413
*10551	11450	*12285	*12769	*13265	*16530
10572	11475	*12286	*12838	*13266	16978
10607	11491	12287	12947	*13268	17081
*10658	*11503	*12289	12972	*13269	17092
*10670	11544	*12293	*13012	*13277	17147
10759	11552	*12296	13047	13279	*17278
10784	11591	12300	*13139	*13281	*17526
*10786	11592	*12303	13201	13282	*17550
*10811	11615	*12304	13202	*13287	
10813	11621	*12307	13204	*13291	
10816	11660	*12309	13205	*13293	
*10828	11706	12314	13207	13294	
10845	11827	*12315	13209	*13297	
10918	11912	*12316	*13210	*13301	
*10920	11946	*12325	*13217	*13607	
*10939	11975	12326	*13225	13786	
*10942	*12204	*12331	13226	*14212	
10974	12206	*12333	*13228	14218	
*10983	12236	12337	13229	14247	
*10990	*12238	*12341	*13230	14404	
*11072	12255	12344	*13231	*14595	
*11113	*12256	12345	13232	*14627	
11138	*12257	*12346*	13235	*14710	
11217	*12258	12347	*13238	*14723	
11237	*12261	12348	13240	*14728	
11241	*12255	12349	13241	*14770	
11246	*12270	12350	*13250	15462	
11252	12274	12391	*13253	*15470	
*11390	*12276	*12434	*13255	15955	
11420	*12280	*12508	*13257	16319	

C.

NCR NO.S (OPEN/CLOSED)

THE FOLLOWING LIST IS AN ACCOUNTING OF THE
P.O./CMTR NO.'S THAT WERE CONSIDERED TO
HAVE, IN PART, A DISCREPANCY THAT MAY
POSSIBLY REFLECT ON THE INTEGRITY OF THE
MATERIALS CONCERNED. IT IS ASSUMED THAT
SOME OF THESE WILL QUALIFY FOR CLEARING
BY VENDOR CONNECTION, CONTINUED SEARCH, ETC.

NCR No's (Open/Closed)

P.O. NO.	NCR NO.	P.O. NO.	NCR NO.	P.O. NO.	NCR NO.
451	(Open)	634	L270	816	L285
454	L213*	639	L298	852	L226
456	L219*(Flint)	642	L284	855	L281
475	L287	650	L299	893	L216
505	L240	651	(Open)	956	L271*
507	(Open)	652	(Open)	1048	L210
508	L220*	667	L297	1087	L281 L287
513	L243	669	L296	1135	L285
514	L278	683	L149	1195	(Open)
515	L243	684	L209	1468	S179
519	L212	689	L290	1548	L292
520	L283	696	L284	1744	(Open)
521	L276	703	L150	G3111	L283
529	L278	704	L150	G3114	L283
533	L217	706	L297	G3150	L286
541	L225 L278	711	L151	4004	L224
542	L225	714	L218	4011	L277
544	L292	722	L152	4023	L222
545	L246	724	L297	4024	L223*
546	L283	726	L288	4027	L278
548	L248	729	L283	4031	L282*
549	L239*	736	L216	4038	L277
566	L224	737	(Open)	4052	L223*
567	L228*	751	L297	4055	M 172 L 221 Q 174 Q 115 L 238
572	L148	752	L240		
583	L159	753	L240		
584	L159	754	L286		
590	L246	764	L227	4077	L136
594	L273 L278	766	L281	4080	L221
597	L277	767	L252	4105	L234
619	L289	782	(Open)	4111	L221
620	(Open)	798	L151	4137	L230
622	(Open)	802	(Open)	4146	L291*
623	(Open)	803	L269	4151	L294*
		804	L227	4153	L293*

~~CONFIDENTIAL~~
NCR No's (Open/Closed)

P.O. NO.	NCR NO.	P.O. NO.	NCR NO.	P.O. NO.	NCR NO.
4180	L302	9444	L296	10759	L242.
4181	L291*	9450	L283	10786	L240
4205	L229*	9453	L251*	10811	L279 L278
4209	L223*	9455	L250	10813	L241
4216	L230	9456	(Open)	10816	L246
4259	(Open)	9458	L262	10845	L241
4270	L232	9462	L242	10918	L241
4286	L237	9475	L242	10974	L248
4289	L232*	9480	L267	10983	L278 L279
4294	L208*	9438	L247*	10990	L240
4343	L275	9495	L268*	11072	L254
4348	L207*	9496	L240	11138	L246
4402	L223*	9497	L264	11217	L246
4465	(Open)	9498	L241	11237	L233
4516	(Open)	9500	L242	11241	L242
5759	L214	9501	(Review)	11246	L240
5776	L155	9502	(Review)	11252	L246
6813	(Open)	9505	(Review)	11420	L262
9242	L206	9506	L236	11428	L240
9244	L296	9507	(Review)	11449	L240
9251	L215	9509	L300	11450	L256
9355	L287	9510	(Review)	11475	L240
9401	L296	9511	L260*	11491	L240
9402	L296	9513	L303*	11503	L272
9403	L296	9515	L261	11544	L211
9411	L284	9519	L261	11552	L252
9412	L296	9521	L243	11592	L240
9413	L296	9522	L256	11615	L240
9414	L296	9524	(Review)	11621	L253
9422	L205*	9533	L242	11660	L248
9423	L301*	9535	L256	11827	L256
9426	L296	10424	L253	11912	L257
9433	L297	10572	L246	11946	L258
9447	L212	10607	L246		
9448	L212	10658	L280		

NCR No's (Open/Closed)

P.O. NO.	NCR NO.	P.O. NO.	NCR NO.	P.O. NO.	NCR NO.
11975	L257	13232	L242		
12204	L254	13235	L242		
12206	L235	13240	L266 *		
12236	L255	13241	L242		
12255	L242	13250	L242		
12256	L278	13259	L236		
12257	L278	13264	(Open)		
12265	L278	13266	L243		
12281	L278	13279	L242		
12286	L278	13282	L245		
12287	(Open)	13293	L278		
12293	L273	13294	L242		
12300	L265	13301	L274		
12304	L278	13786	L241		
12307	L269	14404	L240		
12316	L278	14728	(Open)		
12337	(Review)	14770	(Open)		
12344	L260 *	15955	L259 *		
12345	L304	16319	L244 *		
12347	L260 *	16413	L259 *		
12348	L260 *				
12349	L260 *				
12350	L260 *				
12391	L249				
12434	L295				
12947	L263 *				
12972	L240				
13012	L274				
13047	L258				
13201	L236				
13205	L254				
13207	L146				
13209	L242				
13217	L278				
13226	(Open)				

* (Closed)

D.

COMPANY-MATERIAL-DISCREPANCY-NCR- CORRESPONDENCE
ITEM LIST

THE FOLLOWING IS A COMPLETE UP-TO-DATE LIST OF
ALL P.O./CMTR NO.'S CONTAINING ONE OR MORE
DISCREPANT ITEMS. THIS LIST DOES NOT IN-
CLUDE THE WELDER QUALIFICATION P.O./CMTR
NO.'S.

E.

WELDER QUALIFICATION P.O./CMTR LIST

THE FOLLOWING IS AN ACCOUNTING OF THE
WELDER QUALIFICATION P.O./CMTR NO.'S
FOR THE LASALLE SITE. IT IS NOT PART OF
THE ACCOUNTING LIST AND THEREFORE SHOULD
BE ADDED TO THE SAME WHEN COUNTING TOTAL
P.O./CMTR PACKAGES FOR THE SITE.

PURCHASE ORDER NO.	STATUS	PURCHASE ORDER NO.	STATUS
C 1699*	O.K.	4380	O.K.
4159*		4381	O.K.
4160*	O.K.	4383*	
4167*		4385	O.K.
4173*	O.K.	4386	O.K.
4187*	O.K.	4387	O.K.
4195*	O.K.	4388	
4235		4389	
4250	O.K.	4390	
4256*	O.K.	4391	O.K.
4258*	O.K.	4392	O.K.
4261*	O.K.	4393	O.K.
4273*		4394	O.K.
4274	O.K.	4395*	O.K.
4277	O.K.	4396	O.K.
4280*		4399	O.K.
4281	O.K.	4500	
4282		4501*	
4312	O.K.	4503	
4313*		4504	
4315*	O.K.	4506*	
4316*		4511	
4317	O.K.	4514	
4320	O.K.	4515	
4321	O.K.	4519	
4322	O.K.	4520	
4323	O.K.		
4324	O.K.		
4371			
4372	O.K.		
4373*			
4374	O.K.		
4375*			
4377	O.K.		
4379	O.K.		

* All sites P.O. (possible)

Total ----- 61

No. O.K. ----- 36

No. Discrepant ----- 25

F.

ACCESSORY LIST

THE FOLLOWING IS A LISTING OF AN UP-TO-
DATE ACCOUNTING OF THOSE P.O./CMTR NO.'S
THAT PERTAIN TO ACCESSORIES FOR THE LASALLE
SITE (FILTERS, DAMPERS, FANS, GRILLES, REG-
ISTERS, ETC.)

LASALLE ACCESSORIES

P.O. #	STATUS
1485	OK
1566	OK
4077	L134 - L181
4146	L291
4153	L293
4180	L302
4181	L291
4182	OK
4230	OK
4270	L232
4289	L232
4556	OK
9422	L205
9423	L301
9501	Review
9503	OK
9504	OK
9505	Review
9506	L236
9509	L300
9510	Review
9511	L260
9513	L303
9524	Review
12337	Review
12345	L304
12348	L260
12347	L263
13201	L236
13259	L236
15462	OK
16978	OK
17147	OK

LASALLE COUNTY STATION

P.O./CONTR #	PRIMARY VENDOR	DISCREPANT ITEM/ITEMS	DISCREPANCY	NCR#	CORRESPONDENCE# (enclosed)
451	U.S. Steel	Coils	No ASTM/Yr. Desig.	Open	ZC/QC 010 ZOAD-060
452	U.S. Steel	Coils	No ASTM/Yr. Desig.	Open	ZC/QC 010
454	U.S. Steel	Coils	No Certs	L213	ZCAD-061 ZOAD-062
455*	Inland Steel	Coils	No ASTM/Yr.		ZC/QC 015
456	U.S. Steel	Sheets	16 ga. not on LaSalle spec. (Flint Mat'l)	L219	ZOAD-064
475	Jones & Laughlin	Plate	No Certs	L287	ZOAD-076
505	Chicago Metal Mfg.	Rings	No Certs	L240	
507*	Seas, Inc.	Nuts & Bolts	Wrong Std. Ref. (nuts) No Std. Ref. (plating)	Open	ZOAD-202
508	Seas, Inc.	Nuts	Wrong Std. Ref.	L220	ZOAD-203

* LaSalle & Other Site/Sites

LASALLE COUNTY STATION

P.O./CONTR #	PRIMARY VENDOR	DISCREPANT ITEM/ITEMS	DISCREPANCY	NCR#	CORRESPONDENCE# (enclosed)
513	Mutual Sales Corp.	Anchors	No Certs	L243	
514	Seas, Inc.	Bolts, Nuts, Washers	No Std. Ref. No Std. Ref.(plating)	L278	ZQAD-204
515	Fulson Supply	Anchors	No Certs	L243	
519*	Jones & Laughlin	Angle	No gal. certs	L212	ZC/QC 012
520	Reliable Galvanizing	Angle	No gal. certs	L283	ZC/QC 012
521	Seas, Inc.	Bolts	No Std. Ref.	L276	ZQAD-205
529	Seas, Inc.	Nuts, Bolts, Washers	No Std. Ref.	L278	ZQAD-206
533	Key Crest	Nuts & Washers	Wrong Std. Ref. No Std. Ref.(plating)	L217	ZQAD-170
541	Seas, Inc.	Nuts & Bolts	No ASTM/Yr. No Std. Ref.(plating)	L225 L278	

LASALLE COUNTY STATION

P.O./CMTR #	PRIMARY VENDOR	DISCREPANT ITEM/ITEMS	DISCREPANCY	NCR#	CORRESPONDENCE# (enclosed)
542	Key Crest	Fasteners	Wrong Std. Ref.	L225	ZQAD-171
544	Olsons	Weather Ban	No C of C	L292	
545	Linux Weld Supply	Cold Galv. Compound	No C of C	L246	
546	Reliable Galvanizing	Angles	No Certs	L283	ZQAD-216
548*	Cambridge House	Paint	No C of C	L248	
549*	Crawford Mfg. Co.	Nuts, Bolts & Washers	No Certs	L239	ZQAD-237
566*	Key Crest	Bolts & Washers	Wrong Std. Ref.	L224	
567	Elcen Metal Prod.	Beam Attachments	C of C only	L228	
572	Fred C. Kramer	Couplings	No Certs	L148	ZQAD-236

* LaSalle & Other Site/Sites

LASALLE COUNTY STATION

P.O./CMTR #	PRIMARY VENDOR	DISCREPANT ITEM/ITEMS	DISCREPANCY	NCR#	CORRESPONDENCE# (enclosed)
583	Cleats Mfg.	Cleats	No C of C	L159	
584	Cleats Mfg.	Cleats	No C of C	L159	
590	Lenox Weld Supply	Cold Galv. Compound	No C of C	L246	
594*	Seas, Inc.	Nuts & Bolts	Wrong Std. Ref.	L273 L278	
597	Key Crest	Cap Screws	No P.O. No Std. Ref.(plating)	L277	ZOAD-174
602*	Youngstown Steel	Coils	No ASTM/Yr. Desig.	(open)	ZC/QC-018 ZOAD-106
603*	Youngstown Steel	Coils	No ASTM/Yr. Desig.	(open)	ZC/QC-018 ZOAD-107
604*	Youngstown Steel	Coils	No ASTM/Yr. Desig.	(open)	ZC/QC-018 ZOAD-108
614*	P.T.L.	Coils	Ht. # Differs	(open)	

* LaSalle & Other Site/Sites

LASALLE COUNTY STATION

P.O./CMTR #	PRIMARY VENDOR	DISCREPANT ITEM/ITEMS	DISCREPANCY	NCR#	CORRESPONDENCE# (enclosed)
619	Jones & Laughlin	Angles, Bars, Pipe & Plates	Std. not to Site Spec. No physical in items 3,4,5,8,9,10,11,17	L289	ZC/QC-015 ZQAD-092
620*	Youngstown Steel	Sheets	No ASTM/Yr.	(open)	ZC/QC-018 ZQAD-109
621*	Youngstown Steel	Sheets	No ASTM/Yr.	(open)	ZC/QC-018 ZQAD-110
622*	Youngstown Steel	Sheets	No ASTM/Yr.	(open)	ZC/QC-018 ZQAD-111
623*	Youngstown Steel	Sheets	No ASTM/Yr.	(open)	ZC/QC-018 ZQAD-111
632*	Edgcomb Metals	Coils and Sheets	No ASTM/Yr. Desig.	(open)	
634	National Metal Fab.	Angle Rings	No Certs	L270	ZC/QC-053
642*	Bethlehem Steel	Coils	No ASTM/Yr. Desig.	L284	
639*	Jones & Laughlin	Angles	No ASTM/Yr. Desig.	L298	ZC/QC-011

* LaSalle & Other Site/Sites

LASALLE COUNTY STATION

P.O./CMTR #	PRIMARY VENDOR	DISCREPANT ITEM/ITEMS	DISCREPANCY	NCR#	CORRESPONDENCE# (enclosed)
704*	National Metal Fab.	Angle Rings	No Certs for 3x3x1	L150	ZC/QC-053 ZQAD-013
706*	Edgcomb	Coils	No ASTM/Yr. Desig.	L297	ZC/QC-011 ZQAD-006
711*	Edgcomb	Channel, Angle & Bar	Item 110 ht# differ Item 105 No physical Item 103 ht# differ	L151	ZC/QC-010 ZQAD-239
714*	National Metal Fab.	Angle Rings	No Certs	L218	ZC/QC-010 ZQAD-014
722*	National Metal Fab.	Rings	No Certs Items 722, 722-1, 722-3, 722-4	L152	ZQAD-15
724*	Edgcomb Metals	Sheets	No ASTM/Yr.Desig.	L297	ZQAD-007
726	Edgcomb Metals	Rod & Plate	Item 726 No Chem. No ASTM/Yr. Desig. No ASTM/Yr.	L288	
729	Reliable Galv.	Angles, Flat Bar	No Mat'l. Certs	L283	
736	National Metal Fab.	Structural Shapes	Closed NCR	L216	

* LaSalle & Other Site/Sites

LASALLE COUNTY STATION

P.O. / INTR #	PRIMARY VENDOR	DISCREPANT ITEM/ITEMS	DISCREPANCY	NCR#	CORRESPONDENCE# (enclosed)
737	Reliable Galv.	Rings	No Galv. Certs, Items 736-1, 736-2	(open)	
751	Edgcomb Metals	Sheets	No ASTM/Yr.Desig.	L297	ZQAD-008
752*	National Metal Fab.	Angle Rings	No Certs, Items 1 - 2 - 3	L240	ZC/QC-012 ZQAD-053 ZQAD-219
753*	National Metal Fab.	Angle Rings	No Certs, Item 1	L240	ZC/QC-053 ZQAD-016
754*	Castle Steel	Coils	No Certs	L286	
764*	Edgcomb Metals	Tubing & Bars	A500 Mat'l. not on Specification	L227	
765*	National Metal Fab.	Rings	No ASTM/Yr.	(open)	ZQAD-017
766*	Edgcomb	Angles & Bar	A500 Mat'l. not on Specification	L281	
767*	Reliable Galv.	Rings	No Galv. Cert. Eng. Disp. Req'd.	L252	ZC/QC-012

* LaSalle & Other Site/Sites

LASALLE COUNTY STATION

P.O./CMTR #	PRIMARY VENDOR	DISCREPANT ITEM/ITEMS	DISCREPANCY	NCR#	CORRESPONDENCE# (enclosed)
788*	Edgcomb	Angles & Bar	Wrong Yr. Ref. (74)	(open)	
798	Harrington & King	Sheets	No Certs	L153	
802*	Reliable Galv.	Tubing	No Certs, Item 5	(open)	ZC/QC-012
803*	Chicago Tube	Tubing	Not on site spec. A500	L209	
804*	Inarco-Leavitt	Tubing	A500 Mat'l. not to specification.	L227	
810	National Metal Fab.	Angle Ring	No ASTM	(open)	ZCAD-019
816*	Central Steel & Wire	Sheets	No Chem/Mech. Certs	L285	ZQAD-179
821*	Youngstown Steel	Sheets	No ASTM/Yr.	(open)	ZC/QC-011
822*	Youngstown Steel	Sheets	No ASTM/Yr.	(open)	ZC/QC-011

* LaSalle & Other Site/Sites

LASALLE COUNTY STATION

P.O./CMTR #	PRIMARY VENDOR	DISCREPANT ITEM/ITEMS	DISCREPANCY	NCR#	CORRESPONDENCE# (enclosed)
823*	Youngstown Steel	Sheets	No ASTM/Yr.	(open)	ZC/QC-011
827*	Youngstown Steel	Coils	No ASTM /Yr.	(open)	ZC/QC-011
830*	U.S. Steel Supply	Angles	Ht # Differ	(open)	
832	National Metal Fab.	Angle Rings	No ASTM/Yr.	(open)	
851*	Youngstown Steel	Coils	No ASTM/Yr.	(open)	ZC/QC-011
852	Ryerson Steel	Sheets	No ASTM/Yr. Desig. No Sign.	L226	ZC/QC-047
855*	U.S. Steel Supply	Tubing	A500 Mat'l. not on Specification	L281	
859*	National Metal Fab.	Angles	Ht # Differs	(open)	ZC/QC-047 ZC/QC-053
893	National Metal Fab.	Rings	No Mat'l. Certs	L216	ZQAD-025 ZC/QC-053

* LaSalle & Other Site/Sites

LASALLE COUNTY STATION

P.O./CMTR #	PRIMARY VENDOR	DISCREPANT ITEM/ITEMS	DISCREPANCY	NCR#	CORRESPONDENCE# (enclosed)
909	National Metal Fab.	Angles	No ASTM/Yr.	(open)	ZQAD-030 ZC/QC-046 ZC/QC-053
917*	Jones & Laughlin	Coils	No ASTM/Yr.	(open)	ZC/QC-011
952*	National Metal Fab.	Angles	No ASTM/Yr.	(open)	ZC/QC-053 ZQAD-036
954*	National Metal Fab.	Angles	No ASTM	(open)	ZC/QC-047 ZC/QC-048 ZC/QC-053
955*	National Metal Fab.	Angles	No ASTM	(open)	ZC/QC-047-048 ZC/QC-053 ZQAD-040
956	National Metal Fab.	Angles	No ASTM/Yr.	L271	ZC/QC-047-048 ZC/QC-053 ZQAD-041
1048*	Edgcomb	Bar	No Certs	L210	ZQAD-009
1089*	Chicago Tube & Iron	Tubing	Item 5 no certs	L281 L287	
1135*	Central Steel & Wire	Angles	No Chem/Mech. Certs Eng. Disp. Req'd.	L285	ZQAD-200

* LaSalle & Other Site/Sites

LASALLE COUNTY STATION

P.O./CMTR #	PRIMARY VENDOR	DISCREPANT ITEM/ITEMS	DISCREPANCY	NCR#	CORRESPONDENCE# (enclosed)
1195*	Wolf Metal Service	Coils	No ASTM/Yr. Desig.	(open)	
1255*	Ryerson Steel	Angles	No ASTM	(open)	ZC/QC-047 ZQAD-042
1285*	Viking Steel	Coils	Item 3 No ASTM/Yr. Coil 610 No ASTM/y	(open)	
1291*	Ryerson Steel	Bar	No ASTM	(open)	ZQAD-003
1351	Ryerson Steel	Tubing	Item 1 No ASTM	(open)	
1378*	Ryerson Steel	Plate	Ht # Differs	(open)	ZQAD-005
1468	Huck Mfg.	Huck Collars	Wrong Yr. Ref.	S179	
1548	Josler Supply	Weatherban Tape	No C of C	L292	
1690*	Ryerson Steel	Bar	No ASTM	(open)	

* LaSalle & Other Site/Sites

LASALLE COUNTY STATION

P.O./CMTR #	PRIMARY VENDOR	DISCREPANT ITEM/ITEMS	DISCREPANCY	NCR#	CORRESPONDENCE# (enclosed)
1744*	Scott Stainless	Coil	No ASTM/Yr. Desig.	(open)	
63114 *	Jones & Laughlin	Tubing	No ASTM/Yr. Desig.	(open)	
6,150 *	Inland Steel	Coils	No Certs	L286	
4004*	Key Crest	Fasteners	No ASTM/Yr. Wrong Std. Ref.	L224	
4011*	Key Crest	Fasteners	No Zinc Plating Ref.	L277.	
4023*	Seas, Inc.	Fasteners	No Std. Ref.	L222	ZQAD-207
4024	Mutual Sales	Fasteners	Wrong Std. Ref.	L223	
4027*	Key Crest	Fasteners.	No Std. Ref.(plating)	L278	ZQAD-178
4031	A.L. Schultz & Son, Inc.	Sheets	No Certs (Zack prov. Mat'l.) F1797	L282	

* LaSalle & Other Site/Sites

LASALLE COUNTY STATION

P.O./CMTR #	PRIMARY VENDOR	DISCREPANT ITEM/ITEMS	DISCREPANCY	NCR#	CORRESPONDENCE# (enclosed)
4038	Key Crest	Fasteners	No Std. Ref. (plating)	L277	ZQAD-180
4052	Mutual Sales	Pop Rivets		L223	
4055*	Delta Screw	Fasteners	Wrong Std. Ref. No Std. Ref. (plating)	M172-Q115 L221-L238 Q174	
4077	Air Filters & Equipment	Dampers	Zack Eng. to Review	L134 L181	
4080*	Delta Screw	Fasteners	Wrong Std. Ref. No Std. Ref. (plating)	L234	ZQAD-122
4105	Key Crest	Fasteners	Wrong Std. Ref. No Std. Ref. (plating)	L234	ZQAD-181
4116	Hanlon Equipment	Fasteners	No Cert	L223	
4137*	Delta Screw	Fasteners	Wrong Std. Ref.	L230	ZQAD-128
4146	American Warming & Vent	Dampers	Zack Eng. to review	L291	

* LaSalle & Other Site/Sites

LASALLE COUNTY STATION

P.O./CMTR #	PRIMARY VENDOR	DISCREPANT ITEM/ITEMS	DISCREPANCY	NCR#	CORRESPONDENCE (enclosed)
4151	Brucker	Fans	No Certs	L294	
4153	Air Products & Equipment	Grilles	Zack Eng. to Review	L293	
4180	American Warming & Vent	Dampers	Zack Eng. to Review	L302	
4181	American Warming & Vent	Dampers	Zack Eng. to Review	L291	
4205	Huck Mfg.	Huck Pins, Collars	No Std. Ref.	L229	
4209*	Mutual Sales	Pop Rivets	Wrong Std. Ref. to specification	L223	
4215*	Delta Screw	Nuts & Washers	Wrong Std. Ref.	L230	ZQAD-130
4259	Architectural Coatings	Adhesive Mat'l.	Not to Spec.	(open)	
4270	American Warming & Vent Inc.	Dampers	No C of C	L231	

* LaSalle & Other Site/Sites

LASALLE COUNTY STATION

P.O./CMTR #	PRIMARY VENDOR	DISCREPANT ITEM/ITEMS	DISCREPANCY	NCR#	CORRESPONDENCE (enclosed)
4286	Delta Screw	Cap Screws & Hex Nuts	No Marking	L237	
4239	Air Monitor	Accessories	Eng. Review	L232	
4294	Mutual Sales	Pop Rivets	Not to Site Spec.	L208	
4343	Delta Screw	Studs	Wrong Std. Ref.	L275	ZQAD-135
4348	Mutual Sales	Pop Rivets	Not to Site Spec.	L207	
4402*	Mutual Sales	Fasteners	Not to Site Spec.	L223	
4465	D & J Metal Craft Co.	Duct Restraints	No Certs	(open)	
4516	James Electronics	R. Meter	No Calibration	(open)	
5759*	Inland Steel	Coils	No Certs 22 & 24ga.	L214	

* LaSalle & Other Site/Sites

LASALLE COUNTY STATION

P.O./CMTR #	PRIMARY VENDOR	DISCREPANT ITEM/ITEMS	DISCREPANCY	NCR#	CORRESPONDENCE# (enclosed)
5776*	Nat'l. Steel	Coils	No Certs	L155	
6813*	U.S. Steel Corp.	Coils	No ASTM/Yr. Desig.	(open)	
9242*	Columet Steel	Angles	No Galv. Certs.	L206	ZQAD-221
9244	U.S. Steel Corp.	Coils	No ASTM/Yr. Desig.	L296	ZQAD-067
9251*	Metron Steel	Angles	No Certs	L215	
9355*	Lakes Steel	Angles	No Certs	L287	
9401	Youngstown Steel	Coil	No ASTM/Yr. Desig.	L296	ZQAD-113
9402*	Youngstown Steel	Coil	No ASTM/Yr. Desig.	L296	ZQAD-115
9403	Youngstown Steel	Coil	No ASTM/Yr. Desig.	L296	ZQAD-116

* LaSalle & Other Site/Sites

LASALLE COUNTY STATION

P.O./CMTR #	PRIMARY VENDOR	DISCREPANT ITEM/ITEMS	DISCREPANCY	NCR#	CORRESPONDENCE# (enclosed)
9411*	U.S. Steel Corp.	Coils	No ASTM/Yr. Desig.	L284	ZQAD-071
9412*	U.S. Steel Corp.	Coils	No ASTM/Yr. Desig.	L296	ZQAD-072
9413*	U.S. Steel Corp.	Coils	No ASTM/Yr. Desig.	L296	ZQAD-073
9414	U.S. Steel Corp.	Coils	No ASTM/Yr. Desig.	L296	ZQAD-074
9417*	Wheeling Corrugating, Inc.	Coils	No ASTM/Yr. Desig.	(open)	
9422	Moffitt Co., Inc.	Fans	No Certs	L205	
9424*	Northwestern Steel & Wire	Angles	No ASTM/Yr.	(open)	
9427*	Northwestern Steel & Wire	Angles & Channels	No ASTM/Yr.	(open)	ZQAD-070
9429*	Bethlehem Steel	Sheets	No ASTM/Yr. Desig.	L296	

* LaSalle & Other Site/Sites

LASALLE COUNTY STATION

Page 19 of 25

P.O./CMTR #	PRIMARY VENDOR	DISCREPANT ITEM/ITEMS	DISCREPANCY	NCR#	CORRESPONDENCE# (enclosed)
9433*	Vincent Brass & Aluminum Co.	Coils	Wrong Std. Ref.	L297	
9442*	Northwestern Steel & Wire	Angles	No ASTM/Yr. No Galv. Cert.	L212	
9443	Reliable Galv.	Angles - 2x2x1/8	No Galv. Cert.	L212	
9444*	U.S. Steel Corp.	Coils	No ASTM/Yr. Desig.	L296	ZQAD-075
9450*	Northwestern Steel & Wire	Angles	No Galv. Cert.	L283	
9453	Reliable Galv.	Damper Rods	No Galv. Cert.	L251	ZQAD-224
9455	Lakes Steel	Angle	No ASTM/Yr. No Galv. Cert.	L250	
9456	Spector & Co.	Sealer	Not in Spec.	(open)	
9458	CECO	Door, Jams, Hinges	No Certs	L262	

* LaSalle & Other Site/Sites

LASALLE COUNTY STATION

P.O./CNTR #	PRIMARY VENDOR	DISCREPANT ITEM/ITEMS	DISCREPANCY	NCR#	CORRESPONDENCE# (enclosed)
9461	RedBolt	Rod	No ASTM/Yr.	(open)	
9462	Seas, Inc.	Nuts, Washers	Wrong Std. Ref.	L242	ZQAD-208
9475	Seas, Inc.	Nuts	Wrong Std. Ref.	L242	ZQAD-209
9488	Crown Ind. Prod.	Spatter Spray	No C of C	L247	
9495	M. Brucker, Inc.	Twist In Collars	No Certs	L268	
9496	Chicago Metal Mfg.	Angle Rings	No Certs	L240	
9497	King Adhesive	Grey Sealer	No C of C	L264	
9498	Mellish & Murray	Rings	Labor Only	L241	
9500	Seas, Inc.	Nuts & Bolts	Wrong Std. Ref.	L242	ZQAD-210

* LaSalle & Other Site/Sites

LASALLE COUNTY STATION

P.O./CNTR #	PRIMARY VENDOR	DISCREPANT ITEM/ITEMS	DISCREPANCY	NCR#	CORRESPONDENCE# (enclosed)
9501	Titus Mfg. Co.	Accessories		Review	
9502	Ruskin	Dampers	No C of C	Review	
9505	Air Filter & Equipment	Dampers	Eng. Review	Open	
9506	Air Filter & Equipment	Measure Stations	Eng. Review	L236	
9507	The Trane Co.	Air Condition Units	No Certs	Review	
9509	RMC, Inc.	Accessories	No P.O.	L300	
9510	Air Products	Dampers	No C of C	Review	
9511	Affiliated Steam Equipment	Humidifiers	No Certs	L260	
9513	M. Bruckner	Fans, etc.	No Certs	L303	

* LaSalle & Other Site/Sites

LASALLE COUNTY STATION

P.O./CMTR #	PRIMARY VENDOR	DISCREPANT ITEM/ITEMS	DISCREPANCY	NCR#	CORRESPONDENCE# (enclosed)
9515	Air Flow Co., Inc	Access Doors	No Certs	L261	
9519	Air Flow Co., Inc.	Walk-In Doors	No Certs	L261	
9521	Falson Supply Co.	Anchors	No C of C	L243	
9522	E.H. Gustafson	Spiral Duct, etc.	No Certs	L256	
9524	Air Products	Dampers	No C of C	Review	
9532	Key Crest	Fasteners	No ASTM/Yr.	Open	
9533	Key Crest	Fasteners	Wrong Std. Ref.	L242	ZQAD-183
9605	F.P. Smith	Wire Mesh (S.S.)	No Certs	L258	

* LaSalle & Other Site/Sites

LASALLE COUNTY STATION

P.O./CMTR #	PRIMARY VENDOR	DISCREPANT ITEM/ITEMS	DISCREPANCY	NCR#	CORRESPONDENCE# (enclosed)
10424*	Hobart North Welding Supply	Weld Wire	No Certs	L253	
10572	Linco Welding Supply	Galv. Compound	No Certs	L246	
10607	Linco Welding Supply	Galv. Compound	No Certs	L246	
10658*	Seas	Fasteners	Wrong Std. Ref.	L280	ZQAD-211
10759	Seas	Fasteners	Wrong Std. Ref.	L242	ZQAD-212
10786*	Chg. Metal Mfg.	Angles	No Certs	L240	
10811*	Seas	Fasteners	Wrong Std. Ref.	L279	
10813	National Metal Fab.	(Labor Only)	No Material Certs	L241	
10816	Linco Welding Supply	Galv. Compound	No Certs	L246	

*LaSalle & Other Site/Sites

LASALLE COUNTY STATION

P.O./CMTR #	PRIMARY VENDOR	DISCREPANT ITEM/ITEMS	DISCREPANCY	NCR#	CORRESPONDENCE# (enclosed)
10845	Mellish & Murray	(Labor Only)	No Material Certs	L241	
10918	National Metal Fab.	(Labor Only)	No Material Certs	L241	
10974	Cambridge House	Paint Brn.	No C of C	L248	
10983*	Seas	Fasteners	Wromg Std. Ref.	L278 L279	ZQAD-214
10990*	Cng. Metal Mfg.	Rings	No Certs	L240	
11072	Hobart North Welding Supply	Weld Rod	No Certs	L254	
11138	Linco Weld Supply	Galv. Compound	No C of C	L246	
11217	Linco Weld Supply	Galv. Compound	No Certs	L246	
11237	Key Crest	Fasteners	Wrong Std. Ref.	L233	ZQAD-184

* LaSalle & Other Site/Sites

LASALLE COUNTY STATION

P.O./CMTR #	PRIMARY VENDOR	DISCREPANT ITEM/ITEMS	DISCREPANCY	NCR#	CORRESPONDENCE# (enclosed)
11241	Key Crest	Fasteners	Wrong Std. Ref.	L242	ZQAD-185
11246	National Metal Fab.	Rings	No Certs	L240	
11252	Linux Weld Supply	Galv. Compound	No Certs	L246	
11420 *	Braun Manufacturing	Hinges	No Certs	L262	
11428	Chg. Metal Fab.	Rings	No Certs	L240	
11449	National Metal Fab.	Rings	No Certs	L240	
11450*	H. Gustafson	Spiral Pipe	No Certs	L256	
11475	National Metal Fab.	Rings	No Certs	L240	
11491	National Metal Fab.	Rings	No Certs	L240	

* LaSalle & Other Site/Sites

LASALLE COUNTY STATION

P.O./CMTR #	PRIMARY VENDOR	DISCREPANT ITEM/ITEMS	DISCREPANCY	NCR#	CORRESPONDENCE# (enclosed)
11503*	Hanlon Equipment	Fasteners	No Certs	L272	
11544	National Metal Fab.	Angles	(Labor) No Certs	L211	
11552	Reliable Galv.	Rings	No Galv. Certs	L252	ZQAD-225
11591	E.H.Gustafson	Spiral Pipe	No Certs	L256	
11592	National Metal Fab.	Rings	No Matl. Certs	L240	
11615	National Metal Fab.	Rings	No Certs	L240	
11621*	Hobart North	Welding Wire	No Certs	L253	
11660	Cambridge House	Paint Brn.	No C of C	L248	
11827*	E.H.Gustafson	Elbows	No Certs	L256	

* LaSalle & Other Site/Sites

LASALLE COUNTY STATION

P.O./CNTR #	PRIMARY VENDOR	DISCREPANT ITEM/ITEMS	DISCREPANCY	NCR#	CORRESPONDENCE# (enclosed)
11912*	G.W.Berkheimer Co.	Elbows	No Certs	L257	
11946*	F.P.Smith Wire Cloth Co.	S.S. Wire	No Certs	L258	
11975*	M. Brucker	Pipe	No Certs	L257	
12704*	Hobart North Weld Supply	Welding Rod	No Certs	L254	
12206	Key Crest	Fasteners	Wrong Std. Ref.	L235	ZQAD-136
12236	Elcon Metal Prod.	Fasteners	No Certs	L255	
12255	Key Crest	Fasteners	Wrong Std. Ref.	L242	ZQAD-187
12256*	Key Crest	Fasteners	Wrong Std. Ref.	L278	
12257*	Key Crest	Fasteners	Wrong Std. Ref.	L278	ZQAD-188

* LaSalle & Other Site/sites

LASALLE COUNTY STATION

P.O./CMTR #	PRIMARY VENDOR	DISCREPANT ITEM/ITEMS	DISCREPANCY	NCR#	CORRESPONDENCE# (enclosed)
12265*	Key Crest	Fasteners	Wrong Std. Ref.	L278	ZQAD-190
12281*	Key Crest	Fasteners	Wrong Std. Ref.	L278	ZQAD-194
12286*	Key Crest	Fasteners	Wrong Std. Ref.	L278	ZQAD-136
12287*	Architactural Coating Co.	Neoprene	Not in Spec.		
12293*	Seas	Fasteners	No Std. Ref.	L273	
12300*	Elcen Metal Prod.	Couplings	Wrong Std. Ref.	L265	
12304*	Key Crest	Fasteners	Wrong Std. Ref.	L278	ZQAD-140
12307*	Subox Coatings	Galv. Thinner	No Certs	L269	
12316*	Key Crest	Fasteners	Wrong Std. Ref.	L278	ZQAD-142

* LaSalle & Other Site/Sites

LASALLE COUNTY STATION

P.O./CWTR #	PRIMARY VENDOR	DISCREPANT ITEM/ITEMS	DISCREPANCY	NCR#	CORRESPONDENCE# (enclosed)
12337*	Air Filter & Equipment	Dampers	Incomplete Certs	(Review)	
12344*	Mill Winfield Eng. Sales	Accessories	No Certs	L260	
12345	Air Filter & Equipment Co.,	Accessories	Incomplete Certs	L304	
12347*	Temperature Equipment Corp.	Cond. Coils	No Certs	L260	
12348 *	Air Filter & Equipment Co.	Filters	No Certs	L260	
12349 *	Buffalo Forge Co.	Blowers	No Certs	L260	
12350*	Custom Electrical Systems Inc.	Heaters	No Certs	L260	
12391	Herwin Williams	Zinc Chromeate	No C of C	L149	
12434*	Stocker Hinge Mfg. Co.		No Certs	L295	

* LaSalle & Other Site/Sites

LASALLE COUNTY STATION

P.O./CONTR #	PRIMARY VENDOR	DISCREPANT ITEM/ITEMS	DISCREPANCY	NCR#	CORRESPONDENCE# (enclosed)
12947	Quality Air Design	Dampers	No Certs	L263	
12972	Chicago Metal Mfg.	Angle Rings	No Certs	L240	
13012*	Key Crest	Fasteners	Wrong Std. Ref.	(Open)	ZQAD-147
13047*	F.P.Smith Wire Cloth Co.	Wire Mesh	No Certs	L258	
13201*	Air Filter & Equipment Co.	Measuring Units	Eng. Review	L236	
13205	Weldstar Co.	1/8" & 3/32" Weld Rod	(Blanket Order) Typical.	L254	
13207*	CSC	Weld Flanges	Std. not to site spec.	L146	
13209	Key Crest	Fasteners	Wrong Std. Ref.	L242	ZQAD-150
13217	Key Crest	Fasteners	Wrong Std. Ref.	(Open)	ZQAD-150

* LaSalle & Other Sites/sites

LASALLE COUNTY STATION

P.O./CMTR #	PRIMARY VENDOR	DISCREPANT ITEM/ITEMS	DISCREPANCY	NCR#	CORRESPONDENCE# (enclosed)
13226	PTL	Testing Samples	No test results	(Open)	
13232	Key Crest	Fasteners	Wrong Std. Ref.	L242	ZQAD-153
13235	Key Crest	Fasteners	Wrong Std. Ref.	L242	ZQAD-154
13240*	CSG	Expansion Valves	No. Ref. to site spec.	L266	
13241	Key Crest	Fasteners	Wrong Std. Ref.	L242	ZQAD-155
13246	Key Crest	3/8" Rod	No ASTM Year	(Open)	ZQAD-156
13250	Key Crest	Fasteners	Wrong Std. Ref.	L242	ZQAD-158
13259*	Air Monitor	Air Measuring Stations	No Certs	L236	
13264*	Architectural Coatings	Neoprene	No Certs	(Open)	

* LaSalle & Other Site/Sites

LASALLE COUNTY STATION

P.O./CMTR #	PRIMARY VENDOR	DISCREPANT ITEM/ITEMS	DISCREPANCY	NCR#	CORRESPONDENCE# (enclosed)
13266*	Brock Tool	Anchors	No Certs	L243	
13279	Key Crest	Fasteners	Wrong Std. Ref.	L242	ZQAD-163
13282	C.S.C.	Fasteners	No C of C	L245	
13293*	Key Crest	Fasteners	Wrong Std. Ref.	L278	ZQAD-166
13294	Key Crest	Fasteners	Wrong Std. Ref.	L242	
13301*	Key Crest	Fasteners	Wrong Std. Ref.	L274	ZQAD-168
13607*	Central Steel & Wire	Bars	No ASTM/Yr	(Open)	
13786	Reliable	Rings	No Galv. Certs	L241	ZQAD-227
14404	National Metal Fab.	Rings	No Certs	L240	

* LaSalle & Other Site/Sites

LASALLE COUNTY STATION

P.O./CMTR #	PRIMARY VENDOR	DISCREPANT ITEM/ITEMS	DISCREPANCY	NCR#	CORRESPONDENCE# (enclosed)
14728*	Kawin Laboratories	Bend Test	No Results	(Open)	
14770*	Kawin Laboratories	Bend Test	No Results	(Open)	
15955	A.L. Schultz & Son	(Labor to form ducts)	Plate NR D1-22	L259	
16319	Martin E. Theille	Fasteners	No Certs	L244	
16413	D & J Metal Craft	(Labor for duct restraints)	No Matl. Certs.	L259	
17550	Colt Ind.	Sheets	No ASTM yr.	(Open)	

* LaSalle & Other Site/Sites

15

cc: K. W. Lambie
A. Jalandoni

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640
November 5, 1980



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

Attention: C. L. Eichstaedt, Jr.

Job 7220 Midland Project
Subcontract 7220-M-151
Material Shipments
M-151-B-947

Dear Mr. Eichstaedt:

Material shipments from Chicago to the Zack site continue to arrive with nonconforming conditions. This practice is consuming substantial time and effort at the site for all parties concerned; Zack, Consumers, and Bechtel. We hereby request that shipments with nonconformances be discontinued and be held in Chicago until nonconformances are cleared.

Further, we direct the Zack site to return any nonconforming material to Chicago by the same truck in which the delivery was made. The truck must be held until the receipt inspection is completed and nonconformances, both hardware and software, are found to be nonexistent with the exception of limited shipping damage.

Very truly yours,

A handwritten signature in dark ink, appearing to read "L. E. Davis".
L. E. Davis
Site Manager

LED/JWL/DFP/ear

cc: R. B. McCarley
R. L. Akers

16

JOB, CONTRACT NO.

P. O. DATE

PURCHASE ORDER NO.

SHIPPER'S NO.
285803

MILL ORDER NO.

INVOICE NO.
161-45399

VEHICLE
IDENTITY

TRUCK

WE HEREBY CERTIFY THAT THE CHEMICAL ANALYSES AND/OR TEST RESULTS SHOWN IN THIS REPORT ARE CORRECT AS CONTAINED IN THE RECORDS OF THE COMPANY.

SIGNATURE

Belkin

DATE

11-21-78

MANAGER QUALITY ASSURANCE

THE ZACK COMPANY

4500 W. 12TH. PLACE
CHICAGO, ILLINOIS

USS GALV. LPQ G90

QUALITY ASSURANCE REVIEW

COMPLETED BY: *[Signature]* DATE 12/1/80

RELEASED: DATE

NOT REQUIRED BY: DATE

RELEASED TO PURCHASE BY: DATE

PURCHASE ORDER NO.	MILL ORDER NO.	ITEM NO.	MATERIAL DESCRIPTION		HEAT NO.	TEST OR PIECE IDENTITY	YIELD PT.	TENSILE STR.	ELONGATION %		% RED. OF AREA
			THICKNESS OR SECTION	WIDTH, DIA. OR FT. WT.					IN 8"	IN 2"	
C-739	CH53990	01	.0580 IN MIN. THICKNESS		J74278	AVG. CTG. WEIGHT .94					

*Removal
12-4-80*

AT NO.	TYPE	C	MN	P	S	SI	CU	NI	CR	MO						
74278		.05	.35	.007	.019											

COIL No. 382 - 12600 #

~~383 12473~~

~~384 12473~~

Test Report

WE HEREBY CERTIFY THAT THE CHEMICAL ANALYSES AND/OR TEST RESULTS SHOWN IN THIS REPORT ARE CORRECT AS CONTAINED IN THE RECORDS OF THE COMPANY.

P.O. DATE PURCHASE ORDER NO.
SHIPPERS NO. 285803 MILL ORDER NO. 161-45399
VEHICLE IDENTITY TRUCK

A. Belkin

SIGNATURE
DATE 11-21-79
MANAGER QUALITY ASSURANCE

THE ZACK COMPANY
4600 W. 12TH. PLACE
CHICAGO, ILLINOIS

USS GALV. LFQ G90

QUALITY ASSURANCE REVIEW
COMPLETED BY: *[Signature]* DATE 12-1-80
RELEASED: *[Signature]* DATE
NOT REQUIRED BY: *[Signature]* DATE
RELEASED TO PURCHASE BY: *[Signature]* DATE

ROLL ORDER NO.	MILL ORDER NO.	ITEM NO.	MATERIAL DESCRIPTION		HEAT NO.	TEST OR PIECE IDENTITY	YIELD PT. TENSILE STR.		% RED. OF AREA
			THICKNESS OR SECTION	WIDTH, DIA. OR FT. WT.			IN 8"	IN 2"	
C-739	CH53990	01	.0580 IN MIN. THICKNESS		J74278	AVG. CTG. WEIGHT .94			

ASTM-A527-71/ G90 COATING

LFQ · CHEM TREAT NO OIL

A. Belkin 11-6-80

A. BELKIN/DATE
MANAGER OF QUALITY ASSURANCE

TYPE	C	W.T.	P	S	SI	CU	NI	CR	MO
273	.05	.35	.007	.019					
Coil No. 382 - 12600"									
Coil No. 383 - 12430"									
Coil No. 384 - 12430"									

Test Report

P. O. DATE		PURCHASE ORDER NO.	
SHIPPER'S NO. 205198		MILL ORDER NO.	INVOICE NO. 161-22039
VEHICLE IDENTITY		TARE	

WE HEREBY CERTIFY THAT THE CHEMICAL ANALYSES AND/OR TEST RESULTS SHOWN IN THIS REPORT ARE CORRECT AS CONTAINED IN THE RECORDS OF THE COMPANY.

SIGNATURE Belkin
DATE 11-23-78
MANAGER QUALITY ASSURANCE

THE ZACK COMPANY

CHICAGO, ILLINOIS

USS GALV. LPQ G90

QUALITY ASSURANCE
COMPLETED BY John G. G. DATE 12-4-80
RELEASED: _____
NOT REQUIRED BY: _____
RELEASED TO PURCHASE BY: _____

PURCHASE ORDER NO.	MILL ORDER NO.	ITEM NO.	MATERIAL DESCRIPTION		HEAT NO.	TEST OR PIECE IDENTITY	YIELD PT.	TENSILE STR.	ELONGATION		% RED. OF AREA
			THICKNESS OR SECTION	WIDTH, DIA. OR FT. WT.					IN 8"	IN 4"	
C-739	CH53990	01	.0530 IN. MIN. THICKNESS		J74278	AVG. CTG. WEIGHT .94					

Remainder
12-4-80

T NO	TYPE	C	MN	P	S	SI	CU	NI	CR	MO						
1278		.05	.35	.007	.019											

Coil No. 383 12430
" " 384 8280

PAGE OF

Test Report

SUB. CONTRACT NO.	P. O. DATE	PURCHASE ORDER NO.	
	SHIPPER'S NO. 286198	MILL ORDER NO.	INVOICE NO. 161-46069
	VEHICLE IDENTITY TRUCK		

WE HEREBY CERTIFY THAT THE CHEMICAL ANALYSES AND/OR TEST RESULTS SHOWN IN THIS REPORT ARE CORRECT AS CONTAINED IN THE RECORDS OF THE COMPANY.

THE ZACK COMPANY

CHICAGO, ILLINOIS

SIGNATURE *A. Belkin*
DATE 11-23-78
MANAGER QUALITY ASSURANCE

USS GALV. LFQ G90

*SAME HEAT NO., ETC.
AS ORDER 161-46069
SHIPMENT NO. 16083*

QUALITY ASSURANCE DEPARTMENT
COMPLETED BY: *[Signature]* DATE 12-7-78
RELEASED: _____
NOT ACQUIRED BY: _____
RELEASED TO PURCHASE BY: _____ DATE _____

PURCHASE ORDER NO.	MILL ORDER NO.	ITEM NO.	MATERIAL DESCRIPTION		HEAT NO.	TEST OR PIECE IDENTITY	YIELD PT.	TENSILE STR.	ELONGATION %		% RED. OF AREA
			THICKNESS OR SECTION	WIDTH, DIA. OR FT. WT.					IN 1"	IN 2"	
C-739	CH53990	01	.0580 IN. MIN. THICKNESS		J74278	AVG. CTG. WEIGHT .94					

ASTM-A527-71/G90 COATING
LFQ CHEM TREAT NO OIL

A. Belkin 11-6-80
A. BELKIN/DATE
MANAGER OF QUALITY ASSURANCE

STANDARD	TYPE	C	MN	P	S	SI	CU	NI	CR	MO						
4278		.05	.35	.007	.019											

COIL NO. 383 12430 #
" " 384 8250 #



CUSTOM METAL FABRICATION

January 23, 1981

United States Steel Corp.
208 S. LaSalle St.
Chicago, Ill. 60690

Attn: Mr. Don Fisher

Subject: Certified Material Test Reports

Gentlemen:

As you know, The Zack Company is involved in the construction of Nuclear Power Plants. Accurate documentation is a must. The following documentation (Material Test Reports) for the following orders require upgrading:

<u>Item</u>	<u>Zack P.O.</u>	<u>Heat No.</u>	<u>Inv.No.</u>	<u>Description</u>
1.	C-739	J74278	161-46069	16 gage
2.	C-739	J74278	161-45399	16 gage
3.	C-739	J74531	161-00704	16 gage
4.	C-742	J73987	161-46068	20 gage
5.	C-742	J74278	161-45398	20 gage

We require the addition of the following on each individual CMTR;

1. ASTM-A527-71
2. ASTM-A525-76 (G 90 Coating)
3. Chem Treat / No Oil

Your most expeditious handling of this is urgently requested. Please reply to the undersigned.

Yours very truly,
THE ZACK COMPANY


Carl L. Eichstaedt, Jr.

Attachments: Sample

cc:File

CLE/nw

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

THIS REPORT AND COPIES
IN THE RECORDS OF THE COMPANY

SHIPPER'S NO. 286198
INVOICE NO. 161-46368
VEHICLE IDENTITY 1 TRUCK

THE ZACK COMPANY
CHICAGO, ILLINOIS

SIGNATURE *Belkin*
DATE 11-23-70

MANAGER QUALITY ASS.
Re: *Revised M.E.D. spec.*

QUALITY ASSURANCE REVIEW
COMPLETED BY: *Belkin* DATE 12-1
RELEASED: DATE
NOT REQUIRED BY: DATE
RELEASED TO PURCHASE BY: DATE

PURCHASE ORDER NO.	MILL ORDER NO.	ITEM NO.	MATERIAL DESCRIPTION THICKNESS 1 OR SECTION	WIDTH, DIA. OR FT. WT.	HEAT NO.	TEST OR PIECE IDENTITY	YIELD ST. TENSILE ST. ELONGATION %
C-742	CH53985	01	0360 IN. MIN. THICKNESS		J73987	AVG. CTG. WEIGHT	
<p>ASTM-A527-71/ G90 COATING</p> <p>LFQ CHEM TREAT NO OIL</p> <p>A. BELKIN/DATE MANAGER OF QUALITY ASSURANCE</p>							

TYPE	C	MN	P	CU	NI	CR	MO	PAGE	OF
J73987	09	41	008	020				C OIL No. 375	376

18
(a-d)

(18a)



CUSTOM METAL FABRICATION
February 6, 1981

Seas, Inc.
7535 W. Roosevelt Rd.
Forrest Park, Ill. 60131

Subject: ASTM Standard for Carbon and Alloy Steel Nuts

Gentlemen:

In reviewing our purchases with your company since January 1978 we have specified the hex nuts to be ASTM-A307, ASTM-A325, ASTM-A354 and/or ASTM-A490. In turn your certificate of compliances and/or material test reports state that the nuts were manufactured to the above standards. In researching this further, the above is not fully accurate. The above mentioned standards are for externally threaded fasteners, bolts, studs, etc. The above mentioned standards all refer to "suitable nuts are covered in Specification A563".

We require a letter from your company stating that the "nuts" furnished to us by your company since January 1978 conform to Standard Specification ASTM-A563-72 or 78a.

Your most expeditious handling would be greatly appreciated.

Yours very truly,
THE ZACK COMPANY

Carl L. Eichstaedt, Jr.
Carl L. Eichstaedt, Jr.
Vice President-Nuclear Const.

CLE/nw

cc: C.Z.DeZutel
~~_____~~
R.Hagen
File



(18b)

CUSTOM METAL FABRICATION

February 6, 1991

Key Crest, Inc.
428 Greenwood Ave.
Barrington, Ill. 60010

Subject: ASTM Standard for Carbon and Alloy Steel Nuts.

Gentlemen:

In reviewing our purchases with your company since January 1978 we have specified the hex nuts to be ASTM-A307, ASTM-A325, ASTM-A354 and/or ASTM-A490. In turn your certificate of compliances and/or material test reports state that the nuts were manufactured to the above standards. In researching this further, the above is not fully accurate. The above mentioned standards are for externally threaded fasteners, bolts, studs, etc. The above mentioned standards all refer to "suitable nuts are covered in Specification A563".

We require a letter from your company stating that the "nuts" furnished to us by your company since January 1978 conform to Standard Specification ASTM-A563-72 or 78a.

Your most expeditious handling would be greatly appreciated.

Yours very truly,
THE ZACK COMPANY

Carl L. Eichstaedt, Jr.
Carl L. Eichstaedt, Jr.
Vice President-Nuclear Const.

CLE/nw

cc: C.Z.DeZutel

~~Handwritten~~
R.Hagen
File



(18c)

CUSTOM METAL FABRICATION

February 6, 1981

Thiele

1604 N. Mannheim Rd.

Melrose Park, Ill. 60165

Subject: ASTM Standard for Carbon and Alloy Steel Nuts

Gentlemen:

In reviewing our purchases with your company since January 1978 we have specified the hex nuts to be ASTM-A307, ASTM-A325, ASTM-A354 and/or ASTM-A490. In turn your certificate of compliances and/or material test reports state that the nuts were manufactured to the above standards. In researching this further, the above is not fully accurate. The above mentioned standards are for externally threaded fasteners, bolts, studs, etc. The above mentioned standards all refer to "suitable nuts are covered in Specification A563".

We require a letter from your company stating that the "nuts" furnished to us by your company since January 1978 conform to Standard Specification ASTM-A563-72 or 78a.

Your most expeditious handling would be greatly appreciated.

Yours very truly,
THE ZACK COMPANY

Carl L. Eichstaedt, Jr.
Carl L. Eichstaedt, Jr.

Vice President-Nuclear Const.

CLE/nw

cc: C.Z. DeZutel

~~XXXXXXXXXX~~
R. Hagen

File

184



CUSTOM METAL FABRICATION

February 6, 1981

Delta Screw Co.
2036 N. Campbell Ave.
Chicago, Ill. 60647

Subject: ASTM Standard for Carbon and Alloy Steel Nuts

Gentlemen:

In reviewing our purchases with your company since January 1978 we have specified the hex nuts to be ASTM-A307, ASTM-A325, ASTM-A354 and/or ASTM-A490. In turn your certificate of compliances and/or material test reports state that the nuts were manufactured to the above standards. In researching this further, the above is not fully accurate. The above mentioned standards are for externally threaded fasteners, bolts, studs, etc. The above mentioned standards all refer to "suitable nuts are covered in Specification A563".

We require a letter from your company stating that the "nuts" furnished to us by your company since January 1978 conform to Standard Specification ASTM-A563-72 or 78a.

Your most expeditious handling would be greatly appreciated.

Yours very truly,
THE ZACK COMPANY

Carl L. Eichstaedt, Jr.
Carl L. Eichstaedt, Jr.
Vice President-Nuclear Const.

CLE/nw

cc: C.Z.DeZutel

~~W. H. H. H.~~
R. Hagen
File

AUDIT REPORT

SUPPLIER/DEPARTMENT _____

SEAS, INC.

7535 W. ROOSEVELT RD.

FOREST PARK, IL.

AUDITOR: Ken Schaefer

DATE: February 10, 1982

SURVEY ☐ C/L NO. WQS-100(1)

AUDIT ☒

REAUDIT ☐

SATISFACTORY ☐

UNSATISFACTORY ☒

RESULTS: UNSATISFACTORY

Through the audit performed at the Seas, Inc. office, it has been determined that this organization will not be able to meet the minimum established quality requirements as established by The Zack Company. From the information received they cannot verify any product furnished.

Ken Schaefer

Ken Schaefer

2/10/82

AUDITOR

CORRECTIVE ACTION STATEMENT

Resurvey to determine further auditing should be made within the year.

Git

2-12-82

Martin P. Schaefer FEB. 11, 82

REPORT REVIEWED BY MANAGER OF O.A.

RESPONSIBLE SUPERVISOR

DATE

22

CHICAGO SERVICE CENTER



Supply

Division of United States Steel Corporation

P. O. BOX 7310
CHICAGO, ILLINOIS 60680
312/646 3711

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/nem

cc: K. Schaefer, Quality Assurance Engineer

We want to work for you.

21

the ZACK co.

CUSTOM METAL FABRICATION

September 23, 1981

DISTRIBUTION

FROM: John O'Connell

SUBJECT: Survey of Edgecomb Metals performed 9/18/81

An evaluation of Edgecomb Metal's Q.A. Program was conducted on 9/18/81, the following was noted:

FINDINGS

- 1) The lines of organizational structure, responsibilities, and inter-functional relationships were not delineated in the Q.A. Manual.
- 2) No performance of a program evaluation.
- 3) No NCR/CAR plan to identify, analyze and take action to correct deviations from quality requirements.
- 4) No identified plan for the maintenance of Quality records.
- 5) No provisions to ensure that purchased material meet quality requirements.
- 6) No evidence of calibration records for caliper.
- 7) No vendor evaluation.
- 8) No check of CMTR's against received material.
- 9) Contrary to Edgecomb's Q.A. Manual, no receiving inspection report is presently being utilized.
- 10) No management evaluation of the Quality Program. //

cc: C.Z. DeZutel
J.C. DeZutel
D.E. Calkins
R. Hagen
D. Mallick
Q.A. Files

AUDIT PLAN

DATE: 9/17/81

AUDITOR: J. O'Connell

ORGANIZATION TO BE AUDITED: Edgecomb Metals

AUDIT LOCATION: P.O. Box 7400-A
3348 S. Pulaski
Chicago, IL

AUDIT PURPOSE: To verify that Edgecomb Metals has the capabilities of
implementing their Quality Program.

AUDIT SCOPE: Limited to Edgecomb Metals facility.

REFERENCE DOCUMENTS: Edgecomb Metals QA Manual, ANSI N45.2 and 10CFR59 Appendix B.

COMMENTS: _____

AUDITOR: N/A

LEAD AUDITOR: J. O'Connell

DATE: N/A

DATE: 9.21.81

EVALUATION OF QUALITY ASSURANCE PROGRAM
PLAN OF SUPPLIERS OF COMPONENTS OR
MATERIAL FOR COMPLIANCE WITH QUALITY
SPECIFICATION

(CHECKLIST)

SUPPLIER: Edgecomb Metals

PROJECT: _____

MANUAL NO.: _____

MANUAL TITLE: Identification & Verification

REVIEW NO.: _____

DATE: _____

REVIEWED BY: John O'Connell

DATE: 9/18/81

GENERAL COMMENT: Edgecomb Metals Q.A. Program was found to be unacceptable
in meeting The Zack Company procurement requirements. The program presently
being utilized is in the process of revision. Findings are described in the
attached checklist. Until Edgecomb satisfactorily responds to those audit
findings, Edgecomb Metal will maintain an unacceptable status

CHECKLIST

IN THE EVENT THERE IS A "NO" ANSWER TO ANY OF THE CHECKLIST QUESTIONS, THE PAGE AND PARAGRAPH NUMBER OF THE Q. A. PROGRAM PLAN AND/OR PROCEDURE INVOLVED IS TO BE IDENTIFIED UNDER THE APPROPRIATE COLUMN.

3.0 QUALITY PROGRAM MANAGEMENT

YES

NO

PAGE &
PARA. NO. _____

3.1 POLICY

1. Does the plan identify management commitments which will ensure that quality requirements are met, and only product(s) meeting quality standards will be supplied?

☒

3.2 ORGANIZATION

1. Does the plan identify that the quality control organizational structure, responsibilities and interfunctional relationships are clearly established?
2. Does the plan establish that personnel performing the quality control function will have the authority and responsibility to perform the following:

_____ ☒

- A. Establish quality control requirements and responsibilities for both those performing the inspection function and those performing the actual manufacture?

_____ ☒

- B. Plan, organize, implement and verify conformance with quality control systems and procedures?

_____ ☒

- C. Evaluate acceptability of work using reviews, examinations, inspections, tests and other means?

_____ ☒

- D. Withhold acceptance of work not meeting quality standards?

☒

3.3 PROCEDURES AND INSTRUCTIONS

1. Does the plan establish that the quality control program will utilize procedures and instructions that define the methods by which the supplier's organizational units will apply quality controls?

☒

YES

NO

PAGE 6
PARA. NO.3.4 QUALITY PLANNING

1. Does the plan identify that the supplier will provide for quality planning, including:

- A. Identifying the quality provisions necessary to comply with the purchase order?
- B. Establishing the inspection plans to be used in the control of quality?
- C. Evaluating results of the quality controls and making changes where improvements are required to maintain quality?

✓

✓

✓

3.5 PERFORMANCE EVALUATION

1. Does the plan provide for the supplier to assess their quality through the use of audits, data and other measurement means?

f

✓

3.6 CORRECTIVE ACTION

1. Does the plan identify a method whereby the supplier will identify, analyze and take action to correct conditions that deviate from quality requirements, and to prevent these from recurrence?

✓

3.7 RECORDS

1. Does the plan identify a method for maintaining records of inspections, tests and product field performance to provide necessary reference data on the product?

✓

COMMENTS SECTION 3.0 No QA/QC Dept. in the Organizational Chart. No vendor evaluation. No corrective action. No evaluation of results of the quality control improvements.

YES

NO

PARA. NO.

4.0 PROCUREMENT CONTROL

1. Does the plan provide for procurement practices to be used that will ensure that purchased material meets quality requirements?

— ☒ — — —

4.1 PROCUREMENT INFORMATION CONTROL

1. Does the plan provide for a method whereby the supplier's procurement documents will contain requirements that define what is technically required and will provide the measures needed to ensure that these technical requirements are met?

— ☒ — — —

4.2 RECEIVING INSPECTION

1. Does the plan provide for a method whereby purchased material acceptability will be verified upon receipt to ensure the use of the correct material during subsequent production processing?

— ☒ — — —

4.3 NONCONFORMING MATERIALS

1. Does the plan provide for a method whereby equipment or services presented to the supplier which are found to be nonconforming to the quality requirements and specifications will be identified, reviewed and disposed of in a manner that will ensure only those acceptable to the supplier's authorized engineers will be used?

— ☒ — — —

COMMENTS SECTION 4.0 No check of CNTR's at receipt inspection. No receiving inspection report contrary to QAM Sec. II (Att. #6)

YES

NO

PARA. NO.

5.0

MANUFACTURING CONTROL

1. Does the plan provide for a method whereby manufacturing activities, which may include machining, fabrication, assembly and testing of equipment, will be done under controlled conditions to ensure that the product meets quality requirements?

N/A

5.1

INSPECTION PLANS

1. Does the plan provide for a method whereby the supplier will utilize preplanned manufacturing inspection plans to establish significant reviews and examinations to determine that the work meets acceptance criteria at various stages of manufacturing and shipping?

✓

5.2

MATERIAL IDENTIFICATION

1. Does the plan provide for a method whereby equipment, parts and material will be identified to ensure that correct and acceptable items are used, and to ensure that the acceptance status of items is readily apparent?

F

✓

5.3

FACILITIES CONTROLS

1. Does the plan establish that only those manufacturing facilities capable of producing equipment that meets the design requirement will be utilized?
2. Does the plan establish that methods will be used to control things such as periodic sharpening of cutting tools, lubrication of machine tools, overhaul of equipment, calibration of measuring and testing instruments (to recognized industry standards) and other similar activities?

N/A

N/A

5.4

CONTROL OF SPECIAL PROCESSES

1. Does the plan provide for controlled methods that are monitored to verify quality?

N/A

YES

NO

PAGE &
PARA. NO.

5.5

CONTROL OF NONCONFORMING MATERIAL

1. Does the plan provide for a method whereby work not conforming to acceptance criteria will be identified, withheld, reviewed, approved, corrected or otherwise disposed of by the supplier's authorized engineers to ensure the acceptability of the completed product to design requirements?

— ✓ — — —

5.6

PROTECTION, PRESERVATION AND PACKING

1. Does the plan provide for a method which identifies that equipment will be protected, preserved and packed to insure its quality is maintained during manufacture, shipment and storage?

✓ — — — —

5.7

HANDLING

1. Does the plan provide for a method which identifies that the supplier will utilize handling methods and transportation means, which ensure that equipment and material are not damaged during transportation and handling?

✓ — — — —

COMMENTS SECTION 5.0 No control of non-conforming material. No internal audits.

No management evaluation of the Quality Program.

FROM →

CHICAGO ☒

FLINT ☐

DATE 9/22/81

TO Purchasing Agent

SUBJECT Edgecomb Metals

ATTENTION Ralph Hagen

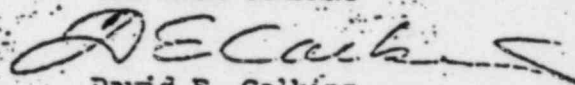
STREET

CITY

As of this date, suspend all ordering from "Edgecomb Metals" pending resolution of "findings" found during survey conducted on 9/18/81 by our Q.A. Department.

This supplier has been removed from our Approved Vendors List.

THE ZACK COMPANY



David E. Calkins
Q.A. Manager

cc: C.Z. DeZutel

J.C. DeZutel

C.L. Eichstaedt, Jr.

D. Malzahn

Q.E. Files }

REPLY - DATE

SUPPLIER/DEPARTMENT

Edgecomb Metals

3348 S. Pulaski Road

Chicago, IL

AUDITOR: Ken Schaefer

DATE: February 10, 1982

SURVEY ☐ C/L NO. ZQS-100(1)AUDIT ☒REAUDIT ☐SATISFACTORY ☒
CONDITIONALUNSATISFACTORY ☐

RESULTS: Satisfactory conditional

Edgecomb has been approved with the condition that The Zack Company will be able to purchase only Channel and Beam material. This will be effective until Edgecomb can provide tracability of angle iron as a corrective action to this finding. Several copies of ZQS-100 have been distributed within their organization. Upon approval by Edgecomb management their new Q.A. Manual will be forwarded to The Zack Co. Q.A. Department for reference and vendor filing.

CORRECTIVE ACTION STATEMENT

Ken Schaefer *[Signature]*
AUDITOR

Finding #1 There is no available record of calibration of any measuring equipment.

Finding #2 There are no surveys on file for review that Section VII (Survey) of their existing Q.A. Manual states being done.

Finding #3 Material tracability is not completely adequate for angle iron products, therefore they will be limited to supply Channel and Beams until such time a re-audit can be performed to verify the tracability of angle iron.

(See audit report 2/10/82 K.S.)

Follow-up in thirty (30) days to close findings for full acceptance suggested.

*RSK 2-12-82**[Signature]* 2-12-82
REPORT REVIEWED BY MANAGER OF C.A.

RESPONSIBLE SUPERVISOR

DATE

AUDIT CHECKLIST

☐ SURVEY

C/L NO. ZQS-100 (1)
☒ AUDIT

DATE 2/11/82

SUPPLIER/DEPARTMENT

REPRESENTATIVES

AUDITORS

Edgcomb METALS
BOB FATE
1008 S. Pulaski Road
Bob Ford
Ken Schaefer
Chicago, IL
John Heinlen
217-7700

S—SATISFACTORY

U—UNSATISFACTORY

N/A—NOT APPLICABLE

O—OPEN

CHARACTERISTICS

FINDINGS SECT. NO.

COMMENTS

Supplier responsible for the quality of work and/or material being supplied in compliance with the requirements of The Zack Company purchase order.

O

ZQS-100
2.0

They do not have a method of complete tracibility for all materials.

Supplier shall have a management system to provide work and/or material meeting established quality needs.

S

3.0

Established Responsibilities for Control personnel:
Guide Lines
Conformance
Acceptability
Non-Conformance

S

3.0

Established procedures or instructions defining methods used to administer Quality Control.

S

3.0

AUDIT CHECKLIST

☐ SURVEY

C/L NO. ZQS-100 (1)

☒ AUDIT

DATE 2/11/82

SUPPLIER/DEPARTMENT

REPRESENTATIVES

AUDITORS

Edgcomb Metals

2340 S. Pulaski Road

Chicago, IL

417-7700

Bob Fate

Bob Ford

John Heinlen

S—SATISFACTORY

U—UNSATISFACTORY

N/A—NOT APPLICABLE

O—OPEN

CHARACTERISTICS

FINDINGS SECT. NO.

COMMENTS

quality plan to show methods for
y detection of problems and pre-
active actions to be taken, inspect-
methods.

s

ZQS-100
3.0

Established corrective action
measures to process as needed
performances.

s

3.0

cord file of all inspections, test,
that verify compliance and
ability of product.

s

3.0

Supplier provurement forms, state
quality requirements, as specified
Zack Company purchase order.

s

4.0

AUDIT CHECKLIST

☐ SURVEY

☒ AUDIT

C/L NO. 1000-10

DATE 2/11/82

SUPPLIER/DEPARTMENT

REPRESENTATIVES

AUDITORS

Bob Fate

Bob Ford

John Heinlen

Ken Schaefer

Edacomb Metals

3348 S. Pulaski Road

Chicago, IL

247-7700

S-SATISFACTORY

U-UNSATISFACTORY

N/A-NOT APPLICABLE

O-OPEN

COMMENTS

CHARACTERISTICS

FINDINGS SECT. NO.

Receipt inspection procedures to establish criteria for acceptance and documentation approval

S

ZQS-100
4.0

10. Established method to process all non-conforming conditions as they become evident

S

4.0

11. Manufacturing controls which have established inspection points throughout to determine acceptance criteria

S

5.0

12. There is an established method by which all material is marked and records showing tracability

O

5.0

Lack of tracibility on many sizes of angle iron

ACK

AUDIT CHECKLIST

☐ SURVEY

C/L NO. ZQS-100 (1)

☒ AUDIT

DATE 2/11/82

SUPPLIER/DEPARTMENT

REPRESENTATIVES

AUDITORS

Edgcomb Metals

Bob Fate

3348 S. Pulaski Road

Bob Ford

Chicago, IL

John Heinlen

247-7700

Ken Schaefer

S--SATISFACTORY

U--UNSATISFACTORY

N/A--NOT APPLICABLE

O--OPEN

CHARACTERISTICS

FINDINGS SECT. NO.

COMMENTS

. A procedure for calibration of all applicable equipment and complete record system.

O

ZQS-100

5.0

They have been working on establishing a workable method to record calibration.

. Procedures for performing Quality acceptance on any and all special processes used in manufacturing

S

5.0

. A segregated area for non-conformance materials with tagging method and procedure to process

S

5.0

Establish procedures for protection, labeling, packing and preserving of material from damage

S

5.0

25
64

CHICAGO ☒FLINT ☐

DATE June 5, 1981

Ⓟ W/ NCR # 514

TO Dave Calkins From Christine Z. DeZutel

SUBJECT

ATTENTION

STREET

CITY

his is to inform you of a situation which has recently come to our attention.

piece of foreign (Argentinian) steel was discovered incorporated into an installed hanger on the Clinton Project.

he Zack Company, upon notification from the site, began an immediate investigation of the problem.

e have ascertained, thus far, that Northwest Steel and Wire, Edgecomb Metal, Reliable Galvanizing caused the confusion in the suspect order.

e have tested the suspect channel through Charles C. Kawn Company and have ascertained that the suspect steel conforms to AWS Standards for A-36 steel.

have ceased purchasing and/or galvanizing with the aforementioned organization pending total clarification of this situation.

REPLY - DATE

s The Zack Company's investigation thus far has not pinpointed the cause or causes for this problem, our investigation is continuing. When all the facts are ascertained, your input will be required for proper disposition.



CUSTOM METAL FABRICATION

MEMO

TO: Carl L. Eichstaedt
FROM: Christine Zack DeZutel
SUBJECT: Memo dated 6/30/81

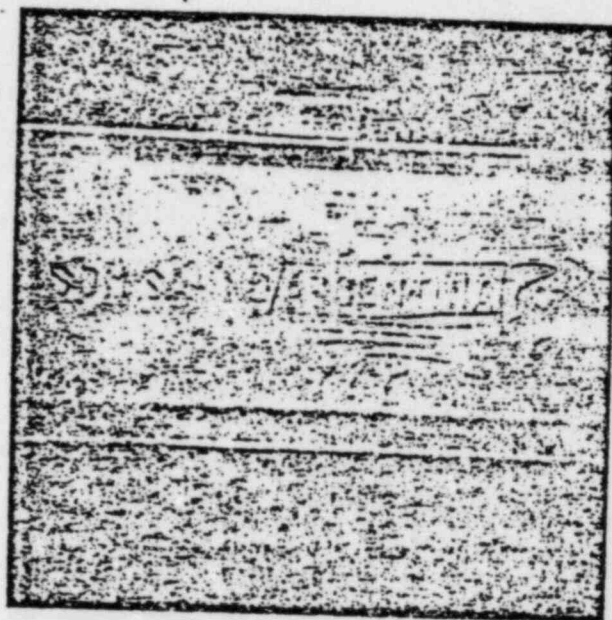
I agree with your evaluation of the evidence regarding the foreign steel. As I also instructed our QA Manager and Purchasing Agent to suspend ordering from Edgecomb, U S Steel Supply, Northwestern Steel and Wire, and Reliable Galvanizing pending the results of the investigation, I now rescind that directive conditionally. Steel procurement may proceed normally.

All nuclear-related steel being galvanized by Reliable Galvanizing will be receipt inspected by Zack's Quality Control inspection force at the Reliable facility, and reinspected there after galvanizing by our inspectors before being released for shipment to us. As heat numbers may become illegible after galvanizing, I suggest some method of marking during the initial inspection that absolutely circumvents any possibility of error. I also encourage back charging Reliable for these increased costs Zack must assume. If, during the next 90 days, any discrepancies are found, Reliable must be removed from Zack's Approved Vendors List and the industry appraised accordingly.

CZDZ

bn

cc J. DeZutel
D. Malzahn
D. Calkins
R. Hagen



018-3

BLDG.

CONTROL

LEVEL

625

JOB NO. 2900

DATE:

4-17-80

CUSTOMER HOLD POINTS

NONE

WELD PROCEDURE

QCP-1-PKS

DIMENSIONAL TOLERANCES

+1/-4

CUTTING LIST

1-1/2" x 1/2" x 3/8" x
 2-Pcs. 99 3/8" - L6
 3- 51 3/8" - L6
 1- 57 1/4" - L6
 1- 53 3/16" - L6

1/4" x 2" BML
 2-Pcs. 51 3/16" - L6

8" x 11.5" CHIN
 2-Pcs. 62 1/4" - L6
 4" x 4" x 3/8" x
 4-Pcs. 7" - L6

CUSTOMER HOLD POINTS

WELD PROCEDURE QCP-

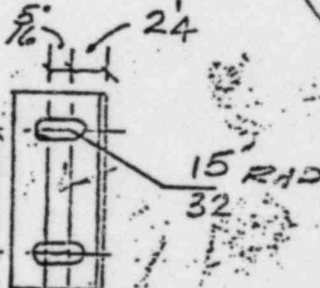
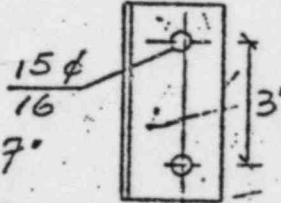
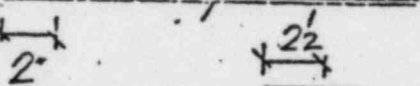
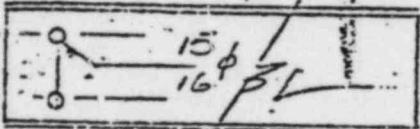
DIMENSIONAL TOLERANCES

CUTTING LIST

C-8 x 11.5

2 REQ.

62 1/4"



A20

A21

QUALITY ASSURANCE

MATERIAL USED

TOP TICKET APPROVED

BP 7/14/80

MIL CONTROL NUMBER

MIL IRON CONTROL NUMBER

EEDER

INSPECTOR

SPRING FINAL INSPECTION

SHOP TRAVELER

THE ZACK CO.

4600 W. 12TH PLACE

CHICAGO, ILL. 60650

AREA CODE 312

PHONES Bishop 2-3434 OLYMPIE 6-3250

VENTILATION

AIR CONDITIONING

DATE 6-11-74

P. O. NO. C 865

THIS NUMBER
APPEARS ON ALL
INVOICES, PACK
SLIPS AND P.O.

SHIP TO

RELIABLE GALVANIZ

TO: EDGECOM Metals
P.O. Box 7440 A
3443 W. PULASKI
CHICAGO, ILL 60622
ATTN: LARRY QUICK

REQUIRED AT DESTINATION ON OR BEFORE

P. O. B. TERMS

SHIP VIA

PAYMENT TERM

QUANTITY AND UNIT	DESCRIPTION OF MATERIAL OR SERVICE	PRICE AND UNIT
40'	W 8 x 31 20's 865	
40'	W 8 x 13 20's 865-1	
40'	W 8 x 20 21 20's 865-2	
100'	W 6 x 12 20's 865-3	
60'	W 6 x 15 150 ft 20's 865-4	
20	W 14 x 43 20 865-5	
ALL ASTM - A36 CERTIFICATES REQUIRED		

QUALITY ASSURANCE REVIEW
COMPLETED BY: DATE 6-11-74
RELEASED: DATE 6-11-74
NOT REQUIRED BY: DATE

PURPOSE:

Job 2401

✓ Reliable X Recd From Reliance

ACKNOWLEDGE ORDER PROMPTLY,
ADVISING WHEN SHIPMENT WILL BE MADE

JOB
NAME

JOB
No.

PARTICULARS:

This order, including the terms and conditions on the face and reverse hereof, contains the complete and final agreement between buyer and seller and no other agreement in any way modifying any of said terms and conditions will be binding upon buyer unless made in writing and signed by the authorized representative.

This order is not binding until accepted. Acceptance is required on acknowledgment copy attached.

See Terms and Conditions on Reverse Side of This Order

THE ZACK CO.

IF ADDITIONAL
INFORMATION IS
REQUIRED, PLEASE
ASK FOR

JOB FILE OR COMMITMENTS FILE

C 865



CUSTOM METAL FABRICATION

October 20, 1981

TO: ALL COGNIZANT ZACK PERSONNEL

RE: Approved Vendors List

As of this date, suspend all ordering from "Delta Screw Company" until further notice.

This supplier has been removed from our "Approved Vendors List".

David E. Calkins
David E. Calkins,
Manager Quality Assurance

ZACK

AUDIT CHECKLIST

☐ SURVEYC/L NO. ZQS-☒ AUDITDATE 2/10/5

SUPPLIER/DEPARTMENT

REPRESENTATIVES

DELTA SCREW COMPANY

JOE LATONA

2036 N. Campbell Ave.

Chicago, IL 60647

AUDITORS

KEN SCHAEFER

S—SATISFACTORY

U—UNSATISFACTORY

N/A—NOT APPLICABLE

O—OPEN

CHARACTERISTICS

FINDINGS SECT. NO.

COMMENTS

1. Supplier responsible for the quality of work and/or material being supplied in compliance with the requirements set on The Zack Company purchase orders.

S

ZQS-100
2.0

Adherence to applicable sections of ZQS-100

2. Supplier shall have a management commitment to provide work and/or material meeting established quality standards.

S

3.0

3. Established Responsibilities for Quality Control personnel:

- A. Guide Lines
- B. Conformance
- C. Acceptability
- D. Non-Conformance

S

3.0

Joe Latona is the only person handling orders.
Review of all material

4. Established procedures or instructions defining methods used to administer Quality Control.

S

3.0

ZACK

AUDIT CHECKLIST

☐ SURVEY

C/L NO.

☒ AUDIT

DATE 2/1/80

SUPPLIER/DEPARTMENT

REPRESENTATIVES

DELTA SCREW COMPANY

JOE LATONA

2036 N. Campbell Ave.

Chicago, IL 60647

AUDITORS

Ken Schaefer

S--SATISFACTORY

U--UNSATISFACTORY

N/A--NOT APPLICABLE

O--OPEN

CHARACTERISTICS

FINDINGS SECT. NO.

COMMENTS

5. A quality plan to show methods for early detection of problems and preventative actions to be taken, inspection methods.

S

ZQS-100
3.0

6. Established corrective action procedures to process as needed non-conformances.

S

3.0

7. Record file of all inspections, test, etc. that verify compliance and acceptability of product.

S

3.0

8. Supplier provurement forms, state the quality requirements, as specified by The Zack Company purchase order.

S

4.0

ACK

AUDIT CHECKLIST

☐ SURVEY

C/L NO. ZQS-100 (1)

☒ AUDIT

DATE 2/10/82

SUPPLIER/DEPARTMENT

REPRESENTATIVES

AUDITORS

DEPT. SCREW COMPANY

JOE LATONA

KEN SCHAEFER

20 S. Campbell Ave.

Champaign, IL 60647

S—SATISFACTORY

U—UNSATISFACTORY

N/A—NOT APPLICABLE

O—OPEN

CHARACTERISTICS

FINDINGS SECT. NO.

COMMENTS

9. Receipt inspection procedures to establish criteria for acceptance and documentation approval

S

ZQS-100
4.0

10. Established method to process all non-conforming conditions as they become evident

S

4.0

11. Manufacturing controls which have established inspection points throughout to determine acceptance criteria

N/A

5.0

There is an established method by which all material is marked and showing tracability

N/A

5.0

ZAC

AUDIT CHECKLIST

☐ SURVEY

C/L NO. ZQS-100 (1)

☒ AUDIT

DATE 2/10/82

SUPPLIER DEPARTMENT

REPRESENTATIVES

VIA MITE COMPANY

JOE LATONA

136 N. Campbell Ave.

AUDITORS

Ken Schaefer

Phone 60647

S-SATISFACTORY

U-UNSATISFACTORY

N/A-NOT APPLICABLE

O-OPEN

CHARACTERISTICS

FINDINGS SECT. NO.

COMMENTS

3. Procedure for calibration of all applicable equipment and complete record system

N/A

ZQS-100

5.0

4. Procedures for performing Quality acceptance on any and all special receptacles used in manufacturing

N/A

5.0

5. Designated area for non-conformance materials with tagging method and procedure to process

N/A

5.0

6. Procedures for protection, handling and preserving of

N/A

5.0

AUDIT REPORT

DEPARTMENT _____

DATA SCREW COMPANY

2026 N. Campbell Ave.

Chicago, IL

AUDITOR: Ken Schaefer

DATE: 2/10/82

SURVEY ☐ C/L NO. ZQS-100(1)

AUDIT ☒

RE-AUDIT ☐

SATISFACTORY ☒

UNSATISFACTORY ☐

RESULTS: SATISFACTORY

Through an audit of the above company facilities it has been found that they are processing all Zack Company orders in accord with ZQS-100. They meet all necessary requirements of ZQS-100 that are applicable. A copy of ZQS-100 was left with Mr. Joe Latona.

Ken Schaefer
Ken Schaefer

2/10/82

AUDITOR

CORRECTIVE ACTION STATEMENT

No action needed

Matthew R. Schaefer FEB. 11, 82
REPORT REVIEWED BY MANAGER OF O.A.

RESPONSIBLE SUPERVISOR

DATE

	Date of P.O.	Item	Rec'd by	
1587 (C)	12/22/81	hex hd cap screws etc	Basiga Stotes 1/14/82	1
1590 (C/L/M)	12/22/81	plain washers etc	Basiga Richards 1/12/82	1
1591 (C)	12/22/81	hx hd cap screws etc	Basiga Richards 1/11/82	1
1592	12/22/81	" " " " etc	Basiga Richards 2/6/82	1
1593	12/22/81	" " " " etc	No RIR	1
1594	12/22/81	washers etc	Basiga Richards 2/4/82	1
1595	12/22/81	nuts etc	Basiga Richards 1/12/82	1
1596	12/22/81	hx hd cap screws	Basiga Richards 1/18/82	1
1629	1/6/82	hx hd bolts No Certs No	RIR	1
1717	2/1/82	washers	Basiga Basiga 2/11/82	1

(10)

Carroll February 1932

[illegible]

P.E.	VENDOR / SUPPLIER	DATE	QTY	DESCRIPTION	JOB#
1	1596 DELTA SCREW	12-22-81	3000	3" X 1/2" 11/4 C/S	200
2	1596 DELTA SCREW	12-22-81	1000	3" X 1/2" 11/4 C/S	200
3	1596 DELTA SCREW	12-22-81	1000	3" X 1/2" 11/4 C/S	200
4	1596 DELTA SCREW	12-22-81	3000	3" X 1/2" 11/4 C/S	200
5	1596 DELTA SCREW	12-22-81	1000	3" X 1/2" 11/4 C/S	200
6	1597 H.I.T.I.	12-23-81	50	3" X 3/4" Kwik Bolts	110
7	1598 RELIABLE CORP	12-24-81		OFFICE SUPPLIES	290
8	1599 RELIABLE CORP	12-24-81		DRAFTING OFFICE SUPPLIES	290
9	1600 RELIABLE CORP	12-24-81		DRAFTING SUPPLIES	290
10	1601 RELIABLE CORP	12-24-81		DRAFTING SUPPLIES	290
11	1602 RELIABLE CORP	12-24-81		OFFICE SUPPLIES	290
12	1603 P.T.L.	12-24-81		TESTING 18 GALV	
13	1604 P.T.L.	12-24-81		TESTING 18 GALV	
14	1605 P.T.L.	12-24-81		TESTING 18 GALV	
15	1606 WELBSTER	12-24-81	3	25# SPOOLS S.S. WIRE	20
16	1607 WELBSTER	12-24-81	3000	WELDING CONSUMABLES	290
17	1608 KRIVO	12-28-81	09NLS	TAP MAGIC CUTTING	290
18	1609 BUSLER	12-28-81		MISC. JUNK	290
19	1610 HOBART NORTH	12-28-81	12	FILET LANGE SETS	290
20	1611 P.T.L.	12-30-81		TESTING OF M.V.M. 19	240
21	1612 H.I.T.I.	12-30-81		DRILL BITS	110
22	1613 2 R.C.	12-30-81	25	2 R.C. SPRAY GALV	290
23	1614 VOID				
24	1615 BRADLEY SUPPLY				
25	1616 P.T.L.	12-30-81		TEST. OF 147 GALV	240
26	1617 WILSON-JONES	12-30-81		LETTER SET	240
27	1618 GREAT WEST ELECTRIC SUPPLY	12-31-81	500 FT	5" THIN WALL CONDUIT	290
28	1619 BUSLER SUPPLY	1-4-82		REPAIR PARTS	110
29	1620 PREMIUM INST. COMPANY	1-4-82	8	PAPER DIE CUT AND REPAIRS	5
30	1621 J.T. RYERSON	1-4-82	20 FT	3/4" 1/2" HR BAR	240
31	1622 J.T. RYERSON	1-4-82	30 FT	5/8" 1/2" HR BAR	240
32	1623 J.T. RYERSON	1-4-82	300 FT	5/16" 1/2" HR BAR	240
33	1624 J.T. RYERSON	1-4-82	200 FT	A.G. GALVANIZED	240
34	1625 J.T. RYERSON	1-4-82	50 FT	HR BAR	240
35	1626 NEW YORK BLOWER	1-5-82	1	G.I. FAN	290
36	1627 J.T. RYERSON	1-6-82	10,000	16ga. GALV COIL - 48"	20
37	"	1-6-82	10,000	18ga. GALV COIL - 48"	30
38	"	1-6-82	10,000	20ga. GALV COIL - 48"	40
39	"	1-6-82	10,000	22ga. GALV COIL - 48"	50
40	"	1-6-82	10,000	24ga. GALV COIL - 48"	60
41	"	1-6-82	10,000	26ga. GALV COIL - 48"	70
42	"	1-6-82	10,000	28ga. GALV COIL - 48"	80
43	"	1-6-82	10,000	30ga. GALV COIL - 48"	90
44	"	1-6-82	10,000	32ga. GALV COIL - 48"	100
45	"	1-6-82	10,000	34ga. GALV COIL - 48"	110
46	"	1-6-82	10,000	36ga. GALV COIL - 48"	120
47	"	1-6-82	10,000	38ga. GALV COIL - 48"	130
48	"	1-6-82	10,000	40ga. GALV COIL - 48"	140
49	"	1-6-82	10,000	42ga. GALV COIL - 48"	150
50	"	1-6-82	10,000	44ga. GALV COIL - 48"	160
51	"	1-6-82	10,000	46ga. GALV COIL - 48"	170
52	"	1-6-82	10,000	48ga. GALV COIL - 48"	180
53	"	1-6-82	10,000	50ga. GALV COIL - 48"	190
54	"	1-6-82	10,000	52ga. GALV COIL - 48"	200
55	"	1-6-82	10,000	54ga. GALV COIL - 48"	210
56	"	1-6-82	10,000	56ga. GALV COIL - 48"	220
57	"	1-6-82	10,000	58ga. GALV COIL - 48"	230
58	"	1-6-82	10,000	60ga. GALV COIL - 48"	240
59	"	1-6-82	10,000	62ga. GALV COIL - 48"	250
60	"	1-6-82	10,000	64ga. GALV COIL - 48"	260
61	"	1-6-82	10,000	66ga. GALV COIL - 48"	270
62	"	1-6-82	10,000	68ga. GALV COIL - 48"	280
63	"	1-6-82	10,000	70ga. GALV COIL - 48"	290
64	"	1-6-82	10,000	72ga. GALV COIL - 48"	300
65	"	1-6-82	10,000	74ga. GALV COIL - 48"	310
66	"	1-6-82	10,000	76ga. GALV COIL - 48"	320
67	"	1-6-82	10,000	78ga. GALV COIL - 48"	330
68	"	1-6-82	10,000	80ga. GALV COIL - 48"	340
69	"	1-6-82	10,000	82ga. GALV COIL - 48"	350
70	"	1-6-82	10,000	84ga. GALV COIL - 48"	360
71	"	1-6-82	10,000	86ga. GALV COIL - 48"	370
72	"	1-6-82	10,000	88ga. GALV COIL - 48"	380
73	"	1-6-82	10,000	90ga. GALV COIL - 48"	390
74	"	1-6-82	10,000	92ga. GALV COIL - 48"	400
75	"	1-6-82	10,000	94ga. GALV COIL - 48"	410
76	"	1-6-82	10,000	96ga. GALV COIL - 48"	420
77	"	1-6-82	10,000	98ga. GALV COIL - 48"	430
78	"	1-6-82	10,000	100ga. GALV COIL - 48"	440
79	"	1-6-82	10,000	102ga. GALV COIL - 48"	450
80	"	1-6-82	10,000	104ga. GALV COIL - 48"	460
81	"	1-6-82	10,000	106ga. GALV COIL - 48"	470
82	"	1-6-82	10,000	108ga. GALV COIL - 48"	480
83	"	1-6-82	10,000	110ga. GALV COIL - 48"	490
84	"	1-6-82	10,000	112ga. GALV COIL - 48"	500
85	"	1-6-82	10,000	114ga. GALV COIL - 48"	510
86	"	1-6-82	10,000	116ga. GALV COIL - 48"	520
87	"	1-6-82	10,000	118ga. GALV COIL - 48"	530
88	"	1-6-82	10,000	120ga. GALV COIL - 48"	540
89	"	1-6-82	10,000	122ga. GALV COIL - 48"	550
90	"	1-6-82	10,000	124ga. GALV COIL - 48"	560
91	"	1-6-82	10,000	126ga. GALV COIL - 48"	570
92	"	1-6-82	10,000	128ga. GALV COIL - 48"	580
93	"	1-6-82	10,000	130ga. GALV COIL - 48"	590
94	"	1-6-82	10,000	132ga. GALV COIL - 48"	600
95	"	1-6-82	10,000	134ga. GALV COIL - 48"	610
96	"	1-6-82	10,000	136ga. GALV COIL - 48"	620
97	"	1-6-82	10,000	138ga. GALV COIL - 48"	630
98	"	1-6-82	10,000	140ga. GALV COIL - 48"	640
99	"	1-6-82	10,000	142ga. GALV COIL - 48"	650
100	"	1-6-82	10,000	144ga. GALV COIL - 48"	660

REF	VENAOR / SUPPLIER	DATE	QTY	DESCRIPTION	PRICE
1596	DELTA SCREW	12-22-81	2000	3/8" X 1 1/2" H/H CIS	200
1597	DELTA SCREW	12-22-81	1000	3/8" X 1 1/2" H/H CIS	200
1598	DELTA SCREW	12-22-81	17000	3/8" X 1 1/2" H/H CIS	200
1599	DELTA SCREW	12-22-81	2000	3/8" X 1 1/2" H/H CIS	200
1600	DELTA SCREW	12-22-81	1000	3/8" X 1 1/2" H/H CIS	200
1601	HILTI	12-23-81	50	3/8" X 3 1/2" XWIK BOLTS	1102
1602	RELIABLE CORP	12-24-81		OFFICE SUPPLIES	2900
1603	RELIABLE CORP	12-24-81		DRAFTING OFFICE SUPPLIES	2900
1604	RELIABLE CORP	12-24-81		DRAFTING SUPPLIES	2900
1605	RELIABLE CORP	12-24-81		DRAFTING SUPPLIES	2900
1606	RELIABLE CORP	12-24-81		OFFICE SUPPLIES	2900
1607	D.T.L.	12-24-81		TESTING 100A CIS	
1608	D.T.L.	12-24-81		TESTING 18 GALV	
1609	D.T.L.	12-24-81		TESTING 18 GALV	
1610	WELDSTAR	12-24-81	3	5/8" SPOCK S.S. WIRE	200
1611	WELDSTAR	12-24-81	2000	WELDING COLUMNS	2900
1612	KRIVO	12-28-81	09AHS	TAP MANGIC CUTTING	2900
1613	BOSLER	12-28-81		MISC JUNK	2900
1614	HOBART NORTH	12-28-81	12	FILE CLAMP SETS	2900
1615	D.T.L.	12-30-81		TESTING OF 14" X 1/4"	2400
1616	HILTI	12-30-81	1	DRILL BIT	1102
1617	Z.R.C.	12-30-81	25	Z.R.C. SPACIAL GALV	2900
1618	VOID				
1619	BRADLEY SUPPLY	12-30-81		MISC TOOLS	2900
1620	P.T.L.	12-30-81		TEST. OF 0.47 GALV	2400
1621	WILSON-JONES	12-30-81		LETTER SET	2440
1622	GREAT WEST ELECTRIC SUPPLY	12-31-81	500FT	5" THIN WALL CONDUIT	2900
1623	BOSLER SUPPLY	1-4-82		REPAIR PARTS	1102
1624	PREMIUM INST. COMPANY	1-4-82	2	POWER DISC VOLT AND RESIST	5
1625	J.T. RYERSON	1-4-82	20FT	3/4" HR BAR	2400
1626	J.T. RYERSON	1-4-82	30FT	5/8" HR BAR	2400
1627	J.T. RYERSON	1-4-82	320FT	5/8" X 1/4" HR A	2400
1628	JOSLYN	1-4-82	2330FT	A GALVANIZED	2400
1629	JOSLYN	1-4-82	50FT	HR BAR	2400
1630	NEW YORK BLOWER	1-5-82	1	G.I. FAN	2900
1631	J.T. RYERSON	1-6-82	10,000	16ga. GALV COIL - 48"	200
1632	"	1-6-82	20,000	18ga. GALV COIL - 48"	300
1633	"	1-6-82	10,000	20ga. GALV COIL - 48"	300
1634	"	1-6-82	10,000	22ga. GALV COIL - 48"	300
1635	VENT FAN	1-5-82	500	VENT FAN #70	110
1636	JOSLYN	1-6-82	506 LBS	1/4" X 1/2" X 7 GALV	240
1637	DELTA SCREW	1-6-82	12RS	5/8" X 1 1/2" H/H CIS	240
1638	KAN WELD	1-6-82		WELDING SUPPLIES	240
1639	HARDCAST	1-6-82	12mm	FRA-20 H.C. AB RESIN	240
1640	JOSLYN	1-6-82	100FT	3/4" X 1/4" HR A (100)	240
1641	VOID				
1642	MEDALIST RESIN BOLT	1-6-82	1700	3/8" THREADED ROD	200
1643	J.T. RYERSON	1-6-82	60RS	HR BAR	240
1644	J.T. RYERSON	1-6-82	2000FT	4" X 4" X 1/4" T.S.	240
1645	J.T. RYERSON	1-6-82	100FT	3/4" X 1/4" HR A	240

PO#	VENDOR / SUPPLIER	DATE	QTY	DESCRIPTION	JOB#
1689	RIERSON	1-22-82	1 PC	W3 1/8" 20 FT.	2300
1690	RIERSON	1-22-82	8 Pcs	3/4" 1/4" 1/2" FLAT BAR	200
1691					
1692	D.T.L.	1-22-82		TESTING OF 22 GA	2400
1693	D.T.L.	1-22-82		TESTING OF 22 GA	2400
1694	D.T.L.	1-22-82		TESTING OF 22 GA	2400
1695	D.T.L.	1-22-82		TESTING OF 22 GA	2400
1696	D.T.L.	1-22-82		TESTING OF 16 GA	2400
1697	D.T.L.	1-22-82		TESTING OF 20 GA	2400
1698	D.T.L.	1-22-82		TESTING OF 22 GA	2400
1699	D.T.L.	1-25-82		WELDER TEST CARDS	
1700					
1701					
1702					
1703					
1704	ILLINOIS BLUE BRINT	2-1-82		REPAIR OF BLUE MARK	2900
1705	WELDSTAR	1-26-82		WELD CORNER JOINTS	2400
1706	J.T. METAL CRAFT	1-26-82		DUCT RESTRAINTS	1102
1707					
1708	P.D. SMITH WIRE CLOTH	1-22-82	1 PC	48" 1/2" 3/16" S.S. MESH	1102
1709	FOSTERHOUSE	1-27-82	0.000	ASD 66S POWER WHEELS	2000
1710	LOCK FORMER COMPANY	1-27-82	12	183A POWER WHEELS	2000
1711					
1712					
1713					
1714	ELECTRIC SUPPLY CO. INC.	2-1-82		ELECTRIC PARTS	1102
1715	INDUSTRIAL TOOL	2-1-82		REPAIR OF 2" PIPE	349-C
1716	MEDASIST RED- BOLT	2-1-82	300 FT.	3/4" ALL THREAD	2300
1717	DELTA SCREW	2-1-82	100	3/8" LOCK WASHERS	2900
	DELTA SCREW	2-1-82	200	1/2" LOCK WASHERS	2900
	DELTA SCREW	2-1-82	500	3/8" LOCK WASHERS	2300
1718	THE RELIABLE CO. INC.	2-1-82		OFFICE SUPPLIES	2900
1719	THE RELIABLE CO. INC.	2-1-82		OFFICE SUPPLIES	2900
1720					
1721					
1722	ILIT	2-2-82	1000s	5/8" 1/2" LOCK BOLTS	2300
1723					
1724					
1725	VOID				

26

8/24/81

The following is a list of QA/QC personnel's training/qualification record that violated Zack procedures as noted:

James Michalik - QC Level II

- (1) Contrary to Zack PQCP-11, Rev. 1, para. 6.2.4, the Zack Co. vision test form (ZQF-21) dated 6/2/81, does not reflect documented evidence of a near vision (or equiv) test for J. Michalik.
- (2) Contrary to Zack PQCP-11, Rev. 1, para. 6.2.4, J. Michalik was overdue for his annual eye exam. He was due on 5/6/81, the actual test was performed on 6/2/81.
- (3) Contrary to Zack PQCP-11, Rev. 1, para. 6.3.1.4, J. Michalik was not given a written examination as a Level I.
- (4) Contrary to Zack PQCP-11, Rev. 1, para. 6.3.1.1, no Level I Q.C. Reading List (ZQF-22A) was on file for J. Michalik.
- (5) Contrary to Zack PQCP-11, Rev. 1, para. 6.5.1, J. Michalik was qualified as Level I on 10/14/80, and no 30 day re-evaluation was performed.

Charles Richards - QC Level II

- (1) Contrary to Zack PQCP-11 Rev. 1, para. 6.5.1, C. Richards was qualified on 4/16/80 and no annual re-evaluation was performed.

Ken Schaefer - QA/QC

- X (1) K. Schaefer's qualifications of 10/22/80 does not meet the requirements of ANSI N45.2.6 for education, experience & training.

COMMENTS AS NOTED DURING THE AUDIT:

- (1) Though records were retrievable, all QA/QC records should be purged and maintained in accordance with the requirements of ANSI N45.2.9
- (2) None of the forms utilized in Zack PQCP-11, & PQCP-17 had the form numbers, designated in the procedure, on the forms.
- (3) For uniformity, all forms in PQCP-11 & PQCP-17 should be given the same form number designation.
- (4) To preclude a procedure violation, it is recommended that D. Calkins be given the assignee status for Zack President in evaluating and certifying QA/QC Personnel.
- (5) Also, to preclude a procedure violation incorporate Form ZQF-u5, (Record of Lead Auditor Qualification) into the procedure.

cc: D.E. Calkins
C.Z. DeZutel
J.C. DeZutel
C. Richards
Q.A. Tiler

The following is a list of QA/QC personnel's training/qualification record that violated Zack procedures as noted:

James Michalik - QC Level II

- (1) Contrary to Zack PQCP-11, Rev. 1, para. 6.2.4, The Zack Co. vision test form (ZQF-2A) dated 6/2/81, does not reflect documented evidence of a near vision (or equiv) test for J. Michalik.
- (2) Contrary to Zack PQCP-11, Rev. 1, para. 6.2.4, J. Michalik was overdue for his annual eye exam. He was due on 5/6/81, the actual test was performed on 6/2/81.
- (3) Contrary to Zack PQCP-11, Rev. 1, para. 6.3.1.4, J. Michalik was not given a written examination as a Level I.
- (4) Contrary to Zack PQCP-11, Rev. 1, para. 6.3.1.1, no Level I Q.C. Reading List (ZQF-22A) was on file for J. Michalik.
- (5) Contrary to Zack PQCP-11, Rev. 1, para. 6.5.1, J. Michalik was qualified as Level I on 10/14/80, and no 30 day re-evaluation was performed.

Q.A. AUDIT CHECKLIST

Page 1 of 5ICR N/AN/AForm POCP-11, POCP-17SUBJECT: QC/QA PersonnelDATE 8/24/81REVIEW [Signature]APPROVAL [Signature]

AUDIT POINTS	BINDINGS	SAT. UNSAT. OR N/A	INITIALS/DATE
1. Verify that QCI's meet the qualification requirements of POCP-11, Rev. 1. (POCP-11, Rev. 1, para. 6.2)	(See attachment)	unsat.	
2. Verify that eye tests are evaluated and documented. The Zack Co. vision test form (ZQF-21) annually.	(See attachment)	unsat.	

Q.A. AUDIT CHECKLIST

Page 2 of 5ER N/ADATE 8/24/81N/ASUBJECT: OC/QA PersonnelREVIEW [Signature]WOM, PQCP-11, PQCP-17APPROVAL [Signature]

AUDIT POINTS	FINDINGS	BAT. 'UNSAT. OR N/A	INITIALS/DATE
1) Verify that training & proficiency testing of QCI's met the requirements of PQCP-11, Rev. 1. (PQCP-11, Rev. 1 para 6.3)	(See attachment)	unsat.	
2) verify that certification documented on the Certification of Qualification Form (CF-24)	(See attachment)	unsat.	

Q.A. AUDIT CHECKLIST

Page 3 of 5LIER N/ADATE 8/24/81N/ASUBJECT: OC/QA PersonnelREVIEW 1/1/82ZQAM, PQCP-11, PQCP-17APPROVAL 1/1/82

AUDIT POINTS	FINDINGS	SAT. UNSAT. OR N/A	INITIALS/DATE
(5) Verify that QCI's are evaluated 30 days after certification & every twelve (12) months thereafter. (PQCP-11 Rev. 1, para 6.5)	(See attachment)	unsat.	
6) Verify that The Zack Co. resident (or designee) is responsible for the evaluation certification of Auditors/Lead Auditors. (PQCP-17, Rev 1, para 5.2)	NONE	Sat/ during the audit, D. Calkins, QA Mgr. was named as designee for The Zack Co. Pres. for evaluation and certification of Auditors/Lead Auditors. This action was taken to preclude a procedure violation	

O.A. AUDIT CHECKLIST

Page 4 of 5

LIER N/A

N/A

SUBJECT: OC/OA Personnel

DATE 8/24/81

REVIEW

APPROVAL

AUDIT POINTS

FINDINGS

SAT. UNSAT. OR N/A

INITIALS/DATE

(7) Verify that Lead Auditor & Auditor are qualified per Zack PQCP-17, Rev. C, para 6.2

NONE

Sat./ Qualifications
for the following
personnel were reviewed:

D.B. Calkins
J. O'Connell
K. Schaeter

8) verify training and proficiency testing per Zack PQCP-17, Rev. C, para 6.3:

NONE

Satisfactory

O.A. AUDIT CHECKLIST

Page 5 of 5

ISER N/A

N/A

ZOF, PQCP-11, PQCP-17

DATE 8/24/81

SUBJECT: CC/OA Personnel

REVIEW

APPROVAL

AUDIT POINTS	FINDINGS	SAT. UNSAT. OR N/A	INITIALS/DATE
(9) Verify that all Auditors/ Lead Auditors are evaluated annually. (PQCP-17, Rev. 0, para. 6.5.	NONE	Satisfactory	

THE ZACK CO.

CERTIFICATE OF QUALIFICATION
(ANSI N 45.2.6-1973)

EMPLOYER: THE ZACK COMPANY
4600 WEST 12TH PLACE
CHICAGO (CICERO), IL 60650

PERSON CERTIFIED: KENNETH D. SCHAEFER

ACTIVITY QUALIFIED TO PERFORM: All actions as detailed in
The Zack Company Quality Program

LEVEL OF CAPABILITY: LEVEL II QCI

EFFECTIVE PERIOD OF CERTIFICATION: March 13, 1981 to March 13, 1984

BASIS OF CERTIFICATION: Education, experience, training, and
test results

TEST RESULTS: GENERAL/SPECIFIC: 80.8

PRACTICAL: N/A

COMBINATION: 80.8

M. E. D'Haem
M. E. D'Haem QAM 3/13/81
CERTIFIED BY / DATE

HUNT ZACK CO.

EVALUATION OF PERFORMANCE (AUDITORS AND LEAD AUDITORS)

NAME Kenneth Schaefer CLASSIFICATION Auditor
DATE OF EVALUATION 2-20-81 DATE QUALIFIED 2-27-81

	ABOVE AVERAGE	AVERAGE	BELOW AVERAGE
KNOWLEDGE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
AUDITING TECHNIQUES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
AUDIT PLANNING	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ORAL COMMUNICATIONS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
WRITTEN COMMUNICATION	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

COMMENTS: _____

Reviewed with above named individual

YES

NO

Individuals signature/date

N/A

Evaluators signature/date

Harry Peyer 2/20/81

CERTIFICATE OF QUALIFICATION

COMMUNICATIONS SKILL: Date Evaluated 2/27/81 by: Michael E. D'Han

AUDITOR PARTICIPATION

	<u>LOCATION</u>	<u>AUDIT</u>	<u>DATE</u>
1.	Midland Nuclear Station Midland, Mi.	The Zack Co.	Feb. 18-20, 1981
2.			
3.			
4.			
5.			

EXAMINATION. TYPE Oral PASSED X DATE 2/27/81EFFECTIVE PERIOD OF CERTIFICATION: 2/27/81 through 2/26/84AUDITOR QUALIFICATION CERTIFIED BY: M. E. D'Han 2-27-81
NAME/DATETITLE Quality Assurance Manager

27
(a-b)

27
(a-b)

Certification OF TEST RESULTS

ZACK COMPANY
4610 WEST 12TH PLACE
CHICAGO, IL 60650

Date FEB. 20, 1981

Customer Order Number C-1253

U. S. Steel Supply Order CHI 53668

Specification Number ASTM A36-77A

Item 25 PCS PLATE 5/8 x 15 x 15

HT# K10404

1253

5 PCS PLATE 5/8 x 20 x 18

HT# K10404

1253-1

30 PCS LAR ANGLE 1-1/2 x 1-1/2 x 1/4 x 20'

HT# 1-12935

1253-2

*This is to certify that the material
shipped against your order is
represented by the attached
test results from the producer.*

The original report is contained in our files.



U. S. Steel Supply
Division of United States Steel

QUALITY ASSURANCE REVIEW	
COMPLETED BY: <u>C2D2</u>	DATE <u>2-23-81</u>
RELEASED: _____	DATE _____
NOT REQUIRED BY: _____	DATE _____
RELEASED TO PURCHASE BY: _____	DATE _____

28

28

THE ZACK CO.

QUALITY ASSURANCE TRAINING REPORT

1. DATE 8/31/81

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.	C.Z. DeZutel	CZDZ	President
3.	J.C. DeZutel	JCDZ	Exec. Vice-President
4.	D. Malzahn	DM	Corporate Sect'y.
5.			
6.			
7.			
8.			
9.			
10.			
11.			

DESCRIPTION OF TRAINING SESSION CONDUCTED

12. Training - 10CFR / ANSI N45.2 (1 hr.)

13. David Calkins

Q.A. TRAINING INSTRUCTOR

D.E. Calkins,

Q.A. Mgr

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

Post Office Box 2167
Midland, Michigan 48640



November 24, 1981

The Zack Company
4600 W. 12th Place
Chicago (Cicero), IL. 60650

Attention: R. Greune

Job 7220 Midland Project
Subcontract 7220-M-151
Meeting Notes
M-151-B-1391

Dear Mr. Greune:

Attached for your information and files, please find one copy of meeting notes for the jobsite meeting held on November 3, 1981 at Midland. If you do not concur with these notes, please advise us within ten (10) days of receipt.

Very truly yours,

RW Sobush for
L. E. Davis
Site Manager

LED/RCA/EE/ck

Attachment: Meeting Notes

Ronalds Lewis - called 11:10

1-517-431-4286

*at 410
411*

Meeting Minutes

M-151

DATE: November 3, 1981

TIME: 9.00 a.m.

PLACE: Jobsite Conference Room

PURPOSE: To discuss the Zack report on 10 CFR 50-55 potentially reportable issues on CMTR's; to provide Project Engineering with additional details and to expedite resolution of the disposition.

ATTENDEES:	Dick Soderholm	Bechtel Power Corporation
	Clark Ash	Bechtel Power Corporation
	Ed Entrekin	Bechtel Power Corporation
	George Ritter	Bechtel Power Corporation
	Tom Baldwin	Bechtel Power Corporation
	Dennis Appel	Bechtel Power Corporation
	Gary Johnson	Consumers Power Company
	Hank Leonard	Midland Project Quality Assurance Dept.
	Bill Doig	Midland Project Quality Assurance Dept.
	Howard McGrove (McGrawe)	Midland Project Quality Assurance Dept.
	Russ McCarley	The Zack Company
	Dave Calkins	The Zack Company

A meeting was held at the Midland Jobsite Conference Room on November 3, 1981 between Bechtel Field, Bechtel Project Engineering, Consumers Power, Midland Project Quality Assurance Department, and Zack Quality Assurance to discuss the Zack 10 CFR 50-55 report on potentially reportable CMTR issues.

Zack was asked to elaborate on the position taken by the two other utilities similarly involved and particularly if related to the Midland site. It was determined that one other site had determined the issue to be reportable and the other one was indeterminate, since November 2, 1981 was the deadline date. However, it was agreed that the dissimilarity in criteria and circumstances between the three sites precluded drawing any conclusions from the other evaluations.

It was pointed out to Zack that many of the columns in the report stated a need for engineering resolution but that it was not clear what Zack was looking for. Zack elaborated that at the time of issue, many additional items of documentation were still being located; that at a given point all data available was collected and incorporated. It was also stated that Zack was asking for engineering concurrence on proposed resolutions.

It was agreed to discuss the issues by category and the following discussions took place:

Sheet and Coil - It was pointed out that the discrepant condition was listed in most cases as less than 36 KSI. In view of the recent DCN accepting 30 KSI, Zack was asked to determine how much less than 36 KSI. Zack responded that in all cases where CMTR's were available, the yield strength was greater than 31 KSI. Zack also explained that the reason for having the CMTR's that they do have is in conjunction with a requirement on another site whereby they cannot purchase material with physical properties certified. In all cases they have tests performed after delivery and in 100 percent of the cases tested, the material has been greater than the 30 KSI required.

Zack feels that the probability of acceptance of all material now in question is quite high. Total disposition appears to be identification of the affected travelers and establishing a testing program to substantiate the physical properties.

Nuts, Bolts, Washers - In all cases it was determined that a C. of C. was available. However, there is some question as to what constitutes an acceptable C. of C. Engineering agreed to provide criteria. Also, Engineering was asked if the specification required a CMTR. Engineering conceded that the specification was not clear and that they would research and provide an interpretation. Primarily they felt that it should not be required on accessory items but probably should be required on structural members.

A Zack was advised that an SDDR had been returned authorizing use of the non-marked bolts in question and they were advised to submit an SDDR on the nuts and washers.

Action items from the meeting are as follows:

- ✓ 1. Zack to provide an addendum to the report by Friday, November 6, 1981, stating that all items with CMTR listed as "below 36 KSI" are greater than 31 KSI.
- ✓ 2. Zack is to prepare a list of all suspect material purchase orders and update to the Field weekly as dispositions are obtained.
- ✓ 3. Zack to address the "Approved Vendors List" situation by Friday, November 6, 1981.
4. MPQAD to determine and advise the date of the follow-up meeting with CPCo management regarding this and other outstanding quality issues.
- ⑤ Zack is to try to get the material certified to federal specification RHEW recertified to ASTM or issue an SDDR against this order.
- ✓ 6. Zack to submit an SDDR against MCH-1138 by next Tuesday, November 10, 1981.
7. BPCo Engineering to issue a specification change notice for ventglas material. - CON
8. BPCo Engineering is to provide an interpretation of the specification as to when CMTR's are required. - 11 NOV. NO
9. BPCo Engineering is to provide clarification as to what constitutes an acceptable C. of C. by November 18, 1981. NO

is this
a reference?

- 10. Zack to issue an SDDR on nuts and washers. ? ok approved.
- 11. Zack to update and resubmit the report in thirty (30) days. *one end of day.*
- 12. BPCo Engineering to perform the safety evaluation by Friday, November 6, 1981.

In summary, it was agreed that in virtually all cases, material is acceptable or will be deemed acceptable. There is no special material involved and the major issue is certification and/or proof. In the worst cases, additional testing may be required.

H. E. Entekin 11/20/81
Meeting Notes Prepared By Date
E. Entekin

Acknowledge: _____
Ray Greune Date

Concurrence: _____
Date

30a

30b

VENTILATION

AIR CONDITIONING

4600 W. 12TH PLACE

CHICAGO, ILL. 60650

AREA CODE 312

BIRMINGHAM 2-3434 CHICAGO 6-0250

DATE 2-4-81

P. O. NO.

G 4286

THIS NUMBER MUST
APPEAR ON ALL
INVOICES, PACKING
SLIPS AND PACK

SHIP TO

OUR SHOP

DELTA SCREW CO.
2036 N. CAMPBELL AVE.
CHICAGO, ILL. 60647

REQUIRED AT DESTINATION ON OR BEFORE

F. O. B. TERMS

SHIP VIA

PAYMENT TERMS

QUANTITY AND UNIT	DESCRIPTION OF MATERIAL OR SERVICE	PRICE AND UNIT
20,000 Pcs	1/4" x 1" HEX HD. CAP SCREWS - ZINC PLATED	19.00 / M
20,000 "	1/4" HEX NUTS	9.00 / M
<p>ASTM A563-78 FOR NUTS ONLY ASTM A207-T6 OR LATER GALV ZINC ASTM A164-71 OR LATER MATERIAL CHEMICAL & PHYSICAL CERTIFICATIONS REQ. SAFETY RELATED</p>		
<p>CONFIRMING - JOHNNY LATONA</p>		

QUALITY ASSURANCE REVIEW
COMPLETED BY: MEO
RELEASED: MEO
NOT REQUIRED BY:
RELEASED TO PURCHASE BY: MEO

DATE 2-10-81
DATE 2-10-81
DATE 2-10-81

PURPOSE:

200-C STOCK

ACKNOWLEDGE ORDER PROMPTLY,
ADVISING WHEN SHIPMENT WILL BE MADE

ACKNOWLEDGMENT COPY

(PLEASE FILL OUT AND RETURN IMMEDIATELY)

We hereby acknowledge receipt of above order and accept the
terms and conditions as printed on reverse side of this order.

FIRM NAME Delta Screw DATE 2/11/81

SIGNATURE J. L. Latona

SHIPMENT WILL BE MADE 2/11/81

This order, including the terms and conditions on the face and reverse side
hereof, contains the complete and final agreement between buyer and seller
and no other agreement in any way modifying any of said terms and conditions
will be binding upon buyer unless made in writing and signed by buyer's
authorized representative.

This order is not binding until accepted. Acceptance is required on acknowl-
edgment copy attached.

See Terms and Conditions on Reverse Side of This Order

THE ZACK CO.

BY Ralph M. Mosen

IF ADDITIONAL
INFORMATION IS
REQUIRED, PLEASE
ASK FOR

INVOICES MUST BE IN DUPLICATE

4286

4600 W. 12th PLACE CHICAGO, ILL. 60650

DELTA SCREW CO.

2036 NO. CAMPBELL AVE.

CHICAGO, IL. 60647

QUANTITY AND UNIT	DESCRIPTION OF MATERIAL AND SERVICE	PRICE AND UNIT
	PER AGREEMENT WITH J. LATOJA 12/17/81	
	RETURN FOR FULL CREDIT	
2000	1/4" x 1" hx hd bolts	
2000	1/4" x 3/4" DINO	
5000	1/4" hx nuts	
	ZINC PLATED	

RPOSE: 2400 MIDLAND

THIS ORDER IS NOT BINDING UNTIL ACCEPTED. ACCEPTANCE IS REQUIRED ON ACKNOWLEDGMENT COPY ATTACHED.

THE ZACK CO.

BY

Purchasing Agent

SELLER'S COPY

4600 W. 12th PLACE CHICAGO, ILL. 60650

THIS DATE 12-22-81

DATA SCREW CO.
2036 W. CAMPBELL AVE
CHICAGO, IL 60647

QUANTITY AND UNIT	DESCRIPTION OF MATERIAL AND SERVICE	PRICE AND UNIT
	PER AGREEMENT WITH J. LATOJA 12/17/81	
	RETURN FOR FULL CREDIT	
20000	1/4" x 1" hx hd cap screws	
20000	1/4" hx nuts	
	ZINC PLATED	

POSE: ~~2-100 MIDWEST~~ ~~12-22-81~~ 200-C

THIS ORDER IS NOT BINDING UNTIL ACCEPTED. ACCEPTANCE
IS REQUIRED ON ACKNOWLEDGMENT COPY ATTACHED

THE ZACK CO.

BY

Delta Screw Company

2036 N. CAMPBELL AVE. • PHONE 384-7600 • CHICAGO, ILLINOIS 60647

COLD HEADED SPECIALS OF ALL TYPES

BOLTS • SCREWS • NUTS • RIVETS • WASHERS

Zack Company
4600 West 12th Place
Cicero, Ill 60650

2-13-81

Attention Ralph Hagen,

This letter certifies that the bolts contained in your order C-4286 conform to the ASTM-A307-78 Specifications for low carbon steel fasteners. They are to be used for general application and have a proof load of 33,000 PSI, and a yieldstrength of 36,000 min. PSI, and a tensile strength of 60,000 min. PSI. The hex nuts conform to the ASTM A-563-78a specification for internally threaded fasteners to be used with grade A 307 steel bolts. The plating conforms to the ASTM A-164-71 specification for commercial zinc finish.

Yours truly,

Joseph Latona

Joseph Latona
Vice President

QUALITY ASSURANCE REVIEW

COMPLETED BY: C2D2 DATE 2-20-81
RELEASED: _____ DATE _____
NOT REQUIRED BY: _____ DATE _____
RELEASED TO PURCHASE BY: _____ DATE _____

My Commission Expires Nov. 29, 1981



AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC AND OURSELVES, ALL REPORTS
ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS, AND AUTHORIZATION
FOR PUBLICATION OF STATEMENTS, WITH LUSINESS OR LETHALITY FROM OR REGARDING
OUR REPORTS IS RESERVED PENDING OUR WRITTEN APPROVAL.

PITTSBURGH, PA. 15

AREA CODE 412 TELEPHONE 922-4000

LABORATORY No. 823078

ORDER No. CH-5094

CLIENT'S No.

REPORT

October 28, 1981

REPORT OF: Actual Tensile Test of Bolts ASTM A307

REPORT TO: Pittsburgh Testing Laboratory
4418 W. Roosevelt Road
Chicago (Hillside), IL 60162

REPORT FOR: The Zack Company

Sample Identification	Item Description	Max. Load Pounds	Specification Requirement, LB	
			Minimum	Maximum
9217-1	C-4055 1/2" x 1" Hex Bolt NCR-Q-115	2,460	1,900	3,18
9217-2	C-4055 1/2" x 3/4" Hex Bolt NCR-Q-115	2,380	1,900	3,18
9217-3	C-4072 1/2" x 1" Cap Screw NCR-Q-114	9,750	8,500	14,19
9217-4	C-4286 1/2" x 1" Hex Hd. Cap Screw NCR-Q-112	2,380	1,900	3,18
9217-5	C-4406 3/8" x 1" Hex Hd. Bolt NCR-Q-111	4,990	4,650	7,75
9217-6	C-4484 1/2" x 20 x 3/4" Cap Screw NCR-M-110	2,540	1,900	3,18
9217-7	C-4484 1/2" x 20 x 1" Cap Screw NCR-M-110	2,510	1,900	3,18
9217-8	C-4491 3/8" x 16 x 1 1/2" Cap Screw NCR-C-109	5,580	4,650	7,75

All samples fractured in the threads.

Length of bolts would not permit loading by the wedge method.

All samples submitted by client for testing.

ZACK QUALITY ASSURANCE	
REVIEWED BY	<i>H. J. J. J.</i>
CONTROL NO.	C-9217-C4513
DATE	10/30/81
COMMENT	<i>For J. J. J. as listed</i>

PITTSBURGH TESTING LABORATORY

Earl Callagher
Earl Callagher, Manager
Physical Testing Department



AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC AND OURSELVES, ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS, AND AUTHORIZATION FOR PUBLICATION OF STATEMENTS, EXTRACTS OR REPRINTS FROM OUR REPORTS IS RESERVED PENDING OUR WRITTEN APPROVAL

ORDER NO. CH 5094

LABORATORY NO. 9217
CUSTOMER NO. C 4513

10-28-1981

PART OF TENSILE TEST OF Bolts and cap screws

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

DESCRIPTION	ORIGINAL AREA SQ. IN.	YIELD POUNDS	MAXIMUM LOAD POUNDS	YIELD LB. PER SQ. IN.	TENSILE STRENGTH LB. PER SQ. IN.	ELONGATION		REDUCTION OF AREA PER CENT	FRAC
						IN	PER CENT		
Description	P.O.			P	S				
1/4 x 1" bolt	C4055		2460	.023	.028				
1/4 x 3/4" bolt	C4055		2380	.004	.016				
1/2 x 1" capscrew	C4072		9750	.004	.024				
1/4 x 1" hex head cap screw	C4286		2330	.023	.022				
3/8 x 1" hex head cap bolts	C4406		4990	.008	.012				
1/4 x 3/4" cap screw	C4484		2540	.004	.011				
1/4 x 1" cap screw	C4484		2510	.003	.018				
3/8 x 1/4" cap screw	C4491		5580	.007	.023				

ZACK QUALITY ASSURANCE

REVIEWED BY [Signature]

CONTROL NO. PT-2-9317-C-4513

DATE 10/30/81

COMMENT For items 115
ASCD

PITTSBURGH TESTING LABORATORY

David A. Dunn
David A. Dunn, Manager Chgo. Dist.

3. Attach additional information when report is not satisfactory
4. Attach additional information when report is not satisfactory

5. Attach additional information when report is not satisfactory

SUPPLIER COMPLETED

FOR SUPPLIER USE		PROJECT		FOR BECHTEL USE	
Supplier SDDH No. 092281-15	Date Submitted 9-22-81	Project Midland Power Station		Bechtel SDDH No. 2187	Date 9-22
1. Supplier Name The Zack Company		Address 4600 W 12th Place		City & State Chicago, IL 60609	
2. Supplier's Order No. 2400	3. Supplier's Part No. N/A	4. Supplier's Part Name A 307 Bolts	5. Deviation Detected N/A	6. All Previous S. & Date's N/A	
7. Bechtel P.O. & Item No. 7220-M-151A	8. Bechtel Part No. N/A	9. Bechtel Part Name A 307 Bolts	10. Bechtel SDDH Modified N/A	11. Bechtel Engr. N/A	
12. Deviation Description (Attach extra sheets, photographs, sketches, etc. as necessary and itemize quantity and serial No.'s as applicable) Technical Spec. 7220-M-151-A(0), paragraph 5.12 and 5.19 ASTM A 307 Section 8, Marking 8.1 "Bolt heads shall be marked (by raised or depressed mark at the option of the manufacturer) to identify the manufacturer. The manufacturer may use additional marking for his own use."					
13. Suppliers Proposed Disposition <input type="checkbox"/> Use As-Is <input type="checkbox"/> Repair <input checked="" type="checkbox"/> Modify Bechtel Requirement					
14. Cost Impact None 15. Schedule Impact None					
16. Proposed Disposition and Technical (plus Cost/Schedule if applicable) Justification: Attach extra sheets, sketches, etc. as necessary Request acceptance of ASTM A 307 bolts without manufacturers identification markings.					
1) Material supplied is substantiated as ASTM A 307 by certificate of conformance on file.					
17. Associated Supplier Document (change/s)					
18. Suppliers Authorized Representative Name Russel B. McCarley Title Project Manager Signature <i>Russel B. McCarley</i> Date 9-22-81					

CONTROL

BECHTEL

19. Bechtel Engrg. Action		Engrg. <input type="checkbox"/> Draw Change (<input type="checkbox"/> Bechtel <input type="checkbox"/> Supplier)		Licensing Doc. Change	
<input checked="" type="checkbox"/> Accepted		Follow-up <input type="checkbox"/> Spec/Req. Change (<input type="checkbox"/> Bechtel <input type="checkbox"/> Supplier)		Price Adjustment	
<input type="checkbox"/> Rejected		<input type="checkbox"/> Other Suppliers Affected		None	
20. Bechtel Disposition Statement (including Justification) (Attach extra sheets, sketches, etc. as necessary) BOLTS WITHOUT MANUFACTURER IDENTIFICATION MARKINGS ARE ACCEPTABLE PROVIDED THEY CONFORM TO ALL OTHER REQUIREMENTS OF TECH. SPEC. M151A					
21. Bechtel Acceptance/Signature By <i>[Signature]</i> Date 10/23/81					
22. Supplier By <i>[Signature]</i> Date 10/23/81					

M151-2355-1

TRM-011405

JOE 7220

10

SEP 24 1981

NOTE:

1. COMPLETE INSTRUCTIONS ON BACK OF THIS SHEET
 2. Items 1-18 below to be completed by supplier
 3. Items, Bechtel entries only
 4. Attach additional information whenever necessary

5. Bechtel must be notified within 5 days after detection of deviation.
 6. A copy of the completed SDDIT form shall be included by the supplier in the quality verification data package for each item to which this SDD applies

FOR SUPPLIER USE		PROJECT		FOR BECHTEL USE	
Supplier SDDR No. 102981-2s	Date Submitted 10/29/81	Midland Power Station JOB NO. 7220		Bechtel SDDR No. 2219	Date Received 11-2-81
1. Supplier Name The Zack Co.		Address 4600 W 12th Place		City & State Chicago, IL zip 60650	
2. Supplier's Order No. 2400	3. Supplier's Part No. N/A	4. Supplier's Part Name Nuts & Washers	5. Deviation Detected N/A	6. All Previous SDDR's & Date's N/A	
7. Bechtel P.C. & Rev. No. 7220-M-151A	8. Bechtel Part No. N/A	9. Bechtel Part Name Nuts & Washers	10. Bechtel SDDR Notified N/A	11. Bechtel Engrg. Name N/A	
12. Deviation Description (Attach extra sheets, photographs, sketches, etc. as necessary and identify quantity and serial No.'s as applicable) Technical Specification 7220-M-151-A(0) para 5.12 and 5.19 ASTM A307. Nuts and washers purchased to ASTM A307. (Nuts should be purchased to ASTM A563 and washers to F436). Nuts and washers do not reflect the manufacturer's identification marks as required by ASTM A307 para 9.1.					
13. Suppliers Proposed Disposition <input type="checkbox"/> Use-As-Is <input type="checkbox"/> Repair <input checked="" type="checkbox"/> Modify Bechtel Requirement					
14. Cost Impact Indeterminate			15. Schedule Impact Indeterminate		
16. Proposed Disposition and Technical (plus Cost/Schedule if applicable) Justification: Attach extra sheets, sketches, etc. as necessary Zack Co. is in the process of procuring certificate of conformance from all suppliers of the nuts and washers on this contract. Request acceptance of all nuts and washers purchased to ASTM A307 without manufacturer's I.D. mark and specification change to reflect revised ASTM Standards.					
17. Associated Supplier Documents Change(s)					
CONTROLLED					
18. Suppliers Authorized Representative Name Russel S. McCarley		Title Project Manager		Date 10-29-81	
Signature <i>Russel S. McCarley</i>					
19. Bechtel Engrg. Action <input checked="" type="checkbox"/> Accepted with Comments <input type="checkbox"/> Rejected		Engrg. Followup <input checked="" type="checkbox"/> Spec/Req. Change (Bechtel <input type="checkbox"/> Supplier) <input type="checkbox"/> Other Suppliers Affected (Item 2 of 21-22)		Licensing Doc. Change Price Adjustment Other	
20. Bechtel Disposition Statement including Justification (Attach extra sheets, sketches, etc. as necessary) 1. ASTMA307 (fastener) recommend nuts per ASTM A563, Grade A, hex style. Unless specified otherwise in the inquiry or order, ASTM A563, Grade A, hex nuts are not required to be marked. Therefore there is no deviation from specification requirement. 2. Washers without manufacturer's identification are acceptable provided the washers conform to all other requirements of ASTM F436. This is a deviation from specification requirement. Construction Action Required <input type="checkbox"/> Yes					
21. Bechtel Acceptance/Signatures GS <i>[Signature]</i> PE <i>[Signature]</i> SA <i>[Signature]</i>					
22. Supplier Date <i>11/7/81</i> 23. Bechtel Supplier Quality Representative Date <i>11-16-81</i> Date <i>11-29-81</i>					

SUPPLIER COMPLETED

BECHTEL RECEIVED

23. Christina Zoladz 2-22-95
QOI REVIEW SIGN DATE

1. REPORT NUMBER Q-112

2. DATE 9-22-81

3. ITEM / PART NUMBER C 4286

4. AREA / BUILDING Plant 1

5. DRAWING NUMBER 4286

6. OWNER FURNISHED MATERIAL OR EQUIPMENT ☐ YES ☒ NO

7. Q. LISTED ☒ YES ☐ NO

8. DESCRIPTION OF NON CONFORMANCE: 20,000 pieces of 1/4 x 1" Hex Head cap
Screws are not marked with a raised or depressed mark
on the Head of the screws as stated in ASTM A-307-7
Supplier: Delta Screw Co.

9. REPORTED BY 146 DO 041039, 13015
3m 9-22-81

10. RECOMMENDED CORRECTIVE ACTION: Return To vendor for proper material
or use as non-nuclear material

11. QC INSPECTOR / DATE missmclark 9-22-81

12. QC MANAGER / DATE C. Richard 9-22-81

13. PROJECT MGR./PLANT SUPT./DATE J. Rosen 9-22-81

14. CORRECTIVE ACTION TAKEN:

INFORMATION ONLY

15. PROJECT ENGINEER / DATE

16. PROJECT MGR./PLANT SUPT./DATE

17. VERIFICATION OF CORRECTIVE ACTION TAKEN:

18. ACCEPTED ☒ REJECTED ☐

19. QC INSPECTOR / DATE

20. MANAGER / DATE

THE ZACK CO.

4600 W 12TH PLACE

CHICAGO, ILL. 60620

AREA CODE 312

TELEPHONE BRANCH 2-3030 C. Lyman 6-0250

VENTILATION

AIR CONDITIONING

DATE

8-26-71

P. O. NO.

C 4473

THIS NUMBER MUST
APPEAR ON ALL
INVOICES, PACKING
SLIPS AND PACKS

SHIP TO

OUR SHOP

TO:

DELTA SCREW CO.
2336 N. CAMPBELL AV.
CHICAGO ILL. 60647

CONF - JOE LATONA

REQUIRED AT DESTINATION ON OR BEFORE

F. O. B. TERMS

SHIP VIA

PAYMENT TERMS

ASAP

B/W

QUANTITY AND UNIT	DESCRIPTION OF MATERIAL OR SERVICE	PRICE AND UNIT
20,000	3/4" FLAT WASHERS ANSI B27.2-1965	11.18 M
20,000	3/8" HEX NUTS ASTM A563-72	18.50 M
20,000	3/8" X 1 1/4" HEX BOLTS ASTM A307-78	37.60 M
ALL ITEMS ZINC PLATED TO ASTM A164-71		
TEST REPORTS W/ SHIPMENT		
SAFETY RELATED		
<p>"Provisions of Zack Company letter, dated December 19, 1978, in regards to Federal Regulation 10 CFR, Part 21, are included as an integral part of this Purchase Order/Sub-Contract. Qa Program in accordance with 10 CFR 50, Appendix B."</p>		

QUALITY ASSURANCE REVIEW	DATE	8-31-81
	DATE	
	DATE	
	DATE	
COMPLETED BY:		
RELEASED:		
NOT REQUIRED BY:		
RELEASED TO PURCHASE BY:		

PURPOSE:

2400 MIDLAND

R 925

ACKNOWLEDGE ORDER PROMPTLY,
ADVISING WHEN SHIPMENT WILL BE MADE

ACKNOWLEDGMENT COPY (PLEASE FILL OUT AND RETURN IMMEDIATELY)

I hereby acknowledge receipt of above order and accept the terms and conditions as printed on reverse side of this order.

FIRM NAME Delta Screw Co. DATE 9-1-71

SIGNATURE Joe Latona TITLE President

SHIPMENT WILL BE MADE

This order, including the terms and conditions on the face and reverse side hereof, contains the complete and final agreement between buyer and seller and no other agreement in any way modifying any of said terms and conditions will be binding upon buyer unless made in writing and signed by buyer authorized representative.

This order is not binding until accepted. Acceptance is required on acknowledgment copy attached.

See Terms and Conditions on Reverse Side of This Order

THE ZACK CO.

IF ADDITIONAL
INFORMATION IS
REQUIRED, PLEASE
ASK FOR

INVOICES MUST BE IN DUPLICATE

ACKNOWLEDGMENT AND ACCEPTANCE

4473

the ZACK CO.

DATE 1/29/71

EQUIPED:

20,000 1/2" Kind Machine ASIM 1-11-71
20,000 3/8 NUTS " " " " " "
20,000 1/8 x 1 1/4 Hex Bolts " A: 307 78 " " " "

DB NO. 2400 JOB NAME Midland SHIP TO. Oil Shop

QUALITY CONTROL MATERIAL
YES ☒ NO ☐
CERTIFICATE REQ'D.
YES ☒ NO ☐
SPECIAL NOTES: Test Reports w/shipment
QUALITY ASSURANCE REVIEW
COMPLETED BY: DATE 1-29-71
RELEASED: DATE
NOT REQUIRED BY: DATE
RELEASED TO PURCHASE BY: DATE

NEED BY: (DATE) ASAP
REQUESTED BY: Ray Greene

PROJECT MANAGER REVIEW

ART 2 PURCHASING DEPT. FILL IN BELOW

DETAILS OF PURCHASE:
(STATE: "AS ABOVE" OR SPECIFY IF DIFFERENT)
P.O. NO. C4473
P.O. DATE 2-24-71

AS ABOVE

PURCHASED FROM DELTA SCREEN SALESMAN J.E. LATINA

DATE PROMISED PHONE NO. 214 7100 SIGNED P. Greene

RECEIVING REPORT: RECEIVED OK DATE

SPECIAL DETAILS TO REPORT:

DAMAGED? WET STEEL? EXPLAIN:

QUANTITIES RECEIVED: STATE "SAME AS ORDERED" OR STATE DETAILS IF -

DIFFERENT

DATE SIGNED

AND BUFF COPIES - TO PURCHASING DEPARTMENT (Leave Carbon Between)
COPY - TO PERSON REQUISITIONING MATERIAL
REQUISITION NUMBER 925

SUPPLEMENT OR CHANGE No. 1

TO PURCHASE ORDER NO.

C4475 DATED 8-26-81

THE ZACK CO.

4600 W. 12th PLACE CHICAGO, ILL. 60650

THIS DATE 12-22-81

DELTA SCREW CO.
2036 NO. CAMPBELL AVE
CHICAGO, IL. 60647

QUANTITY AND UNIT	DESCRIPTION OF MATERIAL AND SERVICE	PRICE AND UNIT
	PER AGREEMENT WITH J. LATONA 12/17/81	
	RETURN FOR FULL CREDIT	
20000	3/8" hex nuts ZINC PLATED	

PURPOSE: 2400 MIDLAND

THIS ORDER IS NOT BINDING UNTIL ACCEPTED. ACCEPTANCE
IS REQUIRED ON ACKNOWLEDGMENT COPY ATTACHED.

THE ZACK CO.

BY _____

Purchasing Agent

Delta Screw Company

2036 N. CAMPBELL AVE. • PHONE 384-7600 • CHICAGO, ILLINOIS 60647
COLD HEADED SPECIALS OF ALL TYPES
BOLTS • SCREWS • NUTS • RIVETS • WASHERS

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

Attention: Ralph Hagen,

9-4-81	
COPIED BY: <i>RH</i>	DATE: <i>9-15-81</i>
COPIED BY: _____	DATE: _____
COPIED BY: _____	DATE: _____
COPIED BY: _____	DATE: _____

This letter certifies that the hex head bolts contained in your order C4473 meet the requirements of ASTM-A-307-78 Externally Threaded Low Carbon Steel Fasteners. The hex nuts are in accordance with ASTM-A563-78a specification for low carbon steel nuts. The following are the laboratory test results.

	<u>3/8-16 x 1 1/4 Bolts</u>	<u>3/8-16 Hex Nuts</u>
Carbon	.10	.04
Manganese	.40	.30
Phosphorus	.012	.005
Sulfur	.021	.008
Silicon	.01	.01
Nickel	.01	.01
Chromium	.02	.01
Molybdenum	.01	.01
Copper	.02	.01
Hardness	84 Rb	94.5 Rb
Tensile Strength	70,190 PSI	
Proof	Passed	Passed

The flat washers are made to the same requirements as the low carbon steel fasteners and are in accordance with ANST B27.2 1965. They are made from AISI 1010 Steel and a hardness of 89.2 Rb.

All items are zinc plated in accordance with the ASTM-A164-71 specification for commercial zinc finish.

Yours truly,

Joseph Latona
Joseph Latona
Vice President

My Commission Expires Nov. 29, 1981

Delta Screw Company

2036 N. CAMPBELL AVE. • PHONE 384-7600 • CHICAGO, ILLINOIS 60647

COLD HEADED SPECIALS OF ALL TYPES

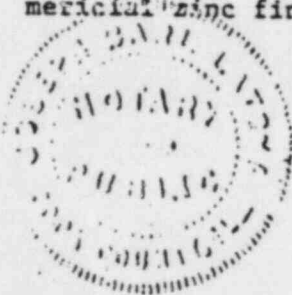
BOLTS • SCREWS • NUTS • RIVETS • WASHERS

January 13, 1982

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

Attention : Carl Eichstaedt

We hereby certify that the material furnished on your order C-4473 was manufactured by a domestic source and in accordance with applicable quality requirements per ANSI B27.2-1965 specification for low carbon steel flat washers. The washers are made from AISI-1010 steel. They are zinc plated in accordance with the ASTM-B633-78 specification for commercial zinc finish.



Joseph Latona
NOTARY PUBLIC
FOR COOK COUNTY, ILLINOIS
My commission expires
November 29, 1985

Delta Screw Company

Joseph Latona
Joseph Latona
Vice President

ZACK QUALITY ASSURANCE	
REVIEWED BY	<i>Sam J. Monahan</i>
CONTROL NO.	C 44 73
DATE	
COMMENT	

2. Items 1-16 below to be completed by supplier
 3. * Items 17-21 Bechtel entries only
 4. Attach additional information when warranted necessary

5. Attach additional information when warranted necessary
 6. Attach additional information when warranted necessary

FOR SUPPLIER USE		PROJECT <u>Midland Tower Station</u>		FOR BECHTEL USE	
Supplier BDR No. <u>092281-1s</u>	Date Submitted <u>9-22-81</u>	JOB NO. <u>7220</u>		Bechtel BDR No. <u>2187</u>	Date <u>9-2</u>

1. Supplier Name The Zack Company Address 4600 W 12th Place City & State Chicago, IL Zip 60

2. Supplier's Order No. <u>2400</u>	3. Supplier's Part No. <u>N/A</u>	4. Supplier's Part Name <u>A 307 Bolts</u>	5. Division Directed <u>N/A</u>	6. All Previous S & Date's <u>N/A</u>
--	--------------------------------------	---	------------------------------------	--

7. Bechtel P.O. & Rev. No. <u>7220-M-151A</u>	8. Bechtel Part No. <u>N/A</u>	9. Bechtel Part Name <u>A 307 Bolts</u>	10. Bechtel SDR Modified <u>N/A</u>	11. Bechtel Engr <u>N/A</u>
--	-----------------------------------	--	--	--------------------------------

12. Deviation Description (Attach extra sheets, photographs, sketches, etc. as necessary and identify quantity and serial No.'s as applicable)

Technical Spec. 7220-M-151-A(0), paragraphs 5.12 and 5.19
ASTM A 307

Section 8, Marking

8.1 "Bolt heads shall be marked (by raised or depressed mark at the option of the manufacturer) to identify the manufacturer. The manufacturer may use additional marking for his own use."

13. Suppliers Proposed Disposition ☐ Use As-Is ☐ Repair ☒ Modify Bechtel Requirement

14. Cost Impact None 15. Schedule Impact None

16. Proposed Disposition and Technical (plus Cost/Schedule if applicable) Justification: Attach extra sheets, sketches, etc. as necessary

Request acceptance of ASTM A 307 bolts without manufacturers identification markings.

1) Material supplied is substantiated as ASTM A 307 by certificate of conformance on file.

17. Associated Supplier Document Change(s)

CONTROLLED

18. Suppliers Authorized Representative
 Name Russel B. McCarley Title Project Manager
 Signature Russel B. McCarley Date 9-22-81

19. Bechtel Engr. Action
☒ Accepted ☐ Rejected
 Engr. ☐ Dwg Change (☐ Bechtel ☐ Supplier) ☐ Licensing Doc. Change
 Followup ☐ Spec/Req. Change (☐ Bechtel ☐ Supplier) ☐ Price Adjustment
☐ Other Suppliers Affected ☒ NONE

20. Bechtel Disposition Statement Including Justification (Attach extra sheets, sketches, etc. as necessary)

BOLTS WITHOUT MANUFACTURERS IDENTIFICATION MARKINGS ARE ACCEPTABLE PROVIDED THE BOLTS CONFORM TO ALL OTHER REQUIREMENTS OF TECH. SPEC. M151A

SEP 26 1981

Bechtel Project No. 7220

M151-2352-1

Trans 04405

Construction Action Required ☐ Yes ☒ No

21. Bechtel Acceptance/Signature
 GS [Signature] Date 10/2/81
 PE [Signature] Date 10/2/81
 QE [Signature] Date 10/2/81
 QA [Signature] Date 10/2/81

22. Supplier [Signature]
 23. Bechtel Supplier [Signature]

SUPPLIER COMPLETED

BECHTEL

Supplier Deviation Request

NOTE:

1. COMPLETE INSTRUCTIONS ON BACK OF THIS SHEET
2. Items 1-18 below to be completed by supplier
3. Items, Bechtel entries only
4. Attach additional information whenever necessary

5. Bechtel must be notified within 5 days after detection of deviation
6. A copy of the completed SDDR form shall be included by the supplier in the quality verification data package for each item to which this SDDR applies

FOR SUPPLIER USE		PROJECT		FOR BECTEL USE	
Supplier SDDR No. 102981-2s	Date Submitted 10/29/81	Midland Power Station JOB NO. 7220		Bechtel SDDR No. 2219	Date Received 11-2-81
1. Supplier Name The Zack Co.		Address 4600 W 12th Place		City & State Chicago, IL zip 60650	
2. Supplier's Order No. 2400	3. Supplier's Part No. N/A	4. Supplier's Part Name Nuts & Washers	5. Deviation Detected N/A	6. All Previous SDDR & Drawings N/A	
7. Bechtel P.O. & Rev. No. 7220-M-151A	8. Bechtel Part No. N/A	9. Bechtel Part Name Nuts & Washers	10. Bechtel SDDR Notified N/A	11. Bechtel Engrg. Mark N/A	
12. Deviation Description (Attach extra sheets, photographs, sketches, etc. as necessary and identify quantity and serial No.'s as applicable) Technical Specification 7220-M-151-A(0) para 5.12 and 5.19 ASTM A307. Nuts and washers purchased to ASTM A307. (Nuts should be purchased to ASTM A563 and washers to F436). Nuts and washers do not reflect the manufacturer's identification marks as required by ASTM A307 para 9.3.					
13. Suppliers Proposed Disposition <input type="checkbox"/> Use-As-Is <input type="checkbox"/> Repair <input checked="" type="checkbox"/> Modify Bechtel Requirement					
14. Cost Impact Indeterminate			15. Schedule Impact Indeterminate		
16. Proposed Disposition and Technical (plus Cost/Schedule if applicable) Justification: Attach extra sheets, sketches, etc. as necessary Zack Co. is in the process of procuring certificate of conformance from all suppliers of the nuts and washers on this contract. Request acceptance of all nuts and washers purchased to ASTM A307 without manufacturer's I.D. mark and specification change to reflect revised ASTM Standards.					
17. Associated Supplier Documents (Change/s)					
18. Suppliers Authorized Representative Name Russel S. McCarley Title Project Manager Signature [Signature] Date 10-29-81					
19. Bechtel Engrg. Action <input checked="" type="checkbox"/> Accepted with Comments <input type="checkbox"/> Rejected Engrg. <input type="checkbox"/> Draw Change <input type="checkbox"/> Bechtel <input type="checkbox"/> Supplier <input type="checkbox"/> Licensing Doc. Change <input checked="" type="checkbox"/> Spec/Req. Change <input type="checkbox"/> Bechtel <input type="checkbox"/> Supplier <input type="checkbox"/> Price Adjustment <input type="checkbox"/> Other Suppliers Affected (Items 2 of 2 of 2) <input type="checkbox"/> Other					
20. Bechtel Disposition Statement including Justification (Attach extra sheets, sketches, etc. as necessary) ASTM A307 (fastener) recommend nuts per ASTM A563, Grade A, hex style. Unless specified otherwise in the inquiry or order, ASTM A563, Grade A, hex nuts are not required to be marked. Therefore there is no deviation. Washers without manufacturer's identification are acceptable provided the washers conform to all other requirements of ASTM F436. This is a deviation from the standard requirement that the material be marked. Construction Action Required: None.					
21. Bechtel Acceptance/Signature [Signature] Date 11/7/81					
22. Supplier [Signature] Date 11/2/81					

SUPPLIER COMPLETED

CONTROLLED

RECEIVED
MIDLAND POWER CORP.
OCT 25 1981
F7220-M-151-2272-1

1. PROJECT: ATLANTAREPORT No. 1003. DATE 9-8-81

ITEM IDENTITY AND QUANTITY

20,000.00 3/8-16 x 1 1/2 Hex Hd Cap Screws
3000 1/2-4 NUTS 3/8-16 Flat Washers all Zinc Plated

SUPPLIER

DELTA SCREW

P/O No.

C11472

QCI RX INSPECTION

	ACCEPT	REJECT	N/A
VERIFY ITEM I.D.	✓		
Verify mfg. documentation (maint., storage, Inst. CTR, C of C. etc.	✓		
Visual inspection for shipping damage.	✓		
Inspect item's workmanship and perform dimensional check.	✓		
Inspect protection covers, seals, preservatives, coatings and cleanliness of item.	✓		
Inspect item's weldments and weld prep areas.			✓
Inspect item's electrical components and insulation.			✓
Inspect item's lubricant and oil reservoirs.			✓

N.C.R. No.

N/A

REMARKS:

17.

C. Richard
QCI sign/stamp9-15-81

Date

COMPLETE

N/A

TAGGING

COLOR CODING

MARKING

REMARKS:

CERTSReviewed SignedBy ZORC. Richard
QCI SIGN/STAMP9-15-81C. Richard9-15-81

REPORT NUMBER Q-194

C-4473

DATE 9-28-81

See ATTACHED SHEET

Plant-1

See ATTACHED SHEET

ITEM/PART NUMBER

4. LOCATION

5. P.O. NUMBER

DESCRIPTION OF HOLD CONDITION Certifications for material on
the attached sheet have not been reviewed as of this
date 9-28-81

HOLD TAG NUMBER

SEE ATTACHED SHEET

INSPECTOR/DATE

ins. m. d. 9-28-81

9. QC MANAGER/DATE

C. Richards 9-28-81

10. PLANT SUPT./DATE

R. Lewis 9-28-81

CORRECTIVE ACTION TAKEN: Certifications received and
accepted by track QA

REGISTRATION ONLY

11. PLANT ENGINEER/DATE

13. PLANT SUPT./DATE

VERIFICATION OF CORRECTIVE ACTION TAKEN:

ACCEPTED

REJECTED

#	TYPE OF MATERIAL	Hold TAG NO	Inspector	Date close
34	Hinges (Black)	00227 THRU 00228		
73	3/8" Ø Bolts, NUTS, WASHERS	00221 THRU 00225	J. Michael	12-16-87
76	Wire mesh S.S	00226	Jm	10-2-81

30c

THE ZACK CO.

VENTILATION

AIR CONDITIONING

4600 W. 12TH PLACE

CHICAGO, ILL. 60650

AREA CODE 312

PHONES: BRIDGE 2-3434 CH. YOUTH 6-0250

DATE

9/11/81

P. O. NO.

64484

THIS NUMBER MUST
APPEAR ON ALL
INVOICES, PACKING
SLIPS AND PACKAG

SHIP TO

OUR SHIP

TO:

DELTA SCREW CO.
2036 N. CAMPBELL AV.
CHICAGO IL 60647

REQUIRED AT DESTINATION ON OR BEFORE

ASAP

F. O. B. TERMS

SHIP VIA

B/W

PAYMENT TERMS

QUANTITY AND UNIT	DESCRIPTION OF MATERIAL OR SERVICE	PRICE AND UNIT
2000	1/4 x 1" HEX BOLT > ASTM	2.20 C 2.2
2000	1/4 x 3/4" " " " > A327-7A	
5000	1/4" HEX NUTS ASTM A563-7A	1.10 C
5000	1/4" FLAT WASHERS ANSI B27.2-65	.65
ALL ZINC PLATED TO ASTM A164-71		
MILL REPORTS WITH SHIPMENT		
SAFETY RELATED		
<p>"Provisions of Zack Company letter, dated December 19, 1978, in regards to Federal Regulation 10 CFR, Part 21, are included as an integral part of this Purchase Order/Sub-Contract". Supplier shall maintain a QA Program in accordance with 10 CFR 50, Appendix B.</p>		

QUALITY ASSURANCE REVIEW

COMPLETED BY: 9-15-81 DATE

RELEASED: 9-15-81 DATE

NOT RECORDED BY: 9-15-81 DATE

RELEASED TO PURCHASE BY: 9-15-81 DATE

PURPOSE:

2400 MIDLAND

R-965

(644-401)

ACKNOWLEDGE ORDER PROMPTLY,
ADVISING WHEN SHIPMENT WILL BE MADE

JOB NAME: _____ JOB No. _____

PARTICULARS: _____

This order, including the terms and conditions on the face and reverse side hereof, contains the complete and final agreement between buyer and seller and no other agreement in any way modifying any of said terms and conditions will be binding upon buyer unless made in writing and signed by buyer's authorized representative.

This order is not binding until accepted. Acceptance is required on acknowledgment copy attached.

See Terms and Conditions on Reverse Side of This Order

THE ZACK CO.

BY

R. Hagen
PURCHASING AGENT

IF ADDITIONAL
INFORMATION IS
REQUIRED, PLEASE
ASK FOR

INVOICES MUST BE IN DUPLICATE

64484

the ZACK co.

DATE 9/10/81

REQUIRED:

2000 pc $\frac{1}{4} \times 1$ HEX HEAD BOLTS A-307-78

2000 pc $\frac{1}{2} \times \frac{3}{4}$ " " " " " "

5000 pc $\frac{1}{4}$ HEX HEAD NUTS A-563-78A A-164

5000 pc $\frac{1}{4}$ F1/1+ WASHERS B-27-2-65 A-164

50,000 pc 10x16x $\frac{3}{4}$ TEK SCREWS - IFI-113-1971 ^{OR} LATER _{ENT}

Job
Site
STOCK

JOB NO. 2400 JOB NAME MIDLAND

SHIP TO OUR SHOP

QUALITY CONTROL MATERIAL

QUALITY ASSURANCE REVIEW

YES ☒ NO ☐

COMPLETED BY: K. Schaefer

DATE 9-11-81

CERTIFICATE REQ'D.

RELEASED: S

DATE S

YES ☒ NO ☐

NOT REQUIRED BY: S

DATE S

SPECIAL NOTES:

RELEASED TO PURCHASE BY: S

DATE S

Mill. Reports w/Shipmost

NEED BY: (DATE) ASAP

REQUESTED BY Beed Prince

PROJECT MANAGER REVIEW D. Greene

PART 2 PURCHASING DEPT. FILL IN BELOW

DETAILS OF PURCHASE:

(STATE: "AS ABOVE" OR SPECIFY IF DIFFERENT)

C 4484 ITEM 1 -
P.O. NO. C 4485 ITEMS

P.O. DATE 9-11-81

AS ABOVE

PURCHASED FROM C 4484 - DELTA SCREW CO.
C 4485 - STAR EXPANSION CO.

SALESMAN JOE LATINA
JERRY KOELNISKI

DATE PROMISED 1-2 WEEKS PHONE NO. 384-7600

SIGNED R. Angers

RECEIVING REPORT: RECEIVED OK DATE

SPECIAL DETAILS TO REPORT:

DAMAGED? WET STEEL? EXPLAIN: -

QUANTITIES RECEIVED: STATE "SAME AS ORDERED" OR STATE DETAILS IF -

DIFFERENT -

Form No. clh 515781

DATE 9-11-81 SIGNED -

LINK AND BUFF COPIES - TO PURCHASING DEPARTMENT. (Leave Carbon Detachment)
GREEN COPY - TO PERSON REQUISITIONING MATERIAL.

REQUISITION NUMBER

065

THE ZACK CO.

1600 W. 12th PLACE CHICAGO, ILL. 60650

THIS DATE 12-22-81

DELTA SCREW CO.
2036 NO. CAMPBELL AVE.
CHICAGO, IL. 60647

QUANTITY AND UNIT	DESCRIPTION OF MATERIAL AND SERVICE	PRICE AND UNIT
	PER AGREEMENT WITH J. LATOJA 12/17/81	
	RETURN FOR FULL CREDIT	
2000	1/4" x 1" hx hd bolts	
2000	1/4" x 3/4" DITTO	
5000	1/4" hx nuts	
	ZINC PLATED	

RPOSE: 2400 MIDLAND

THIS ORDER IS NOT BINDING UNTIL ACCEPTED. ACCEPTANCE IS REQUIRED ON ACKNOWLEDGMENT COPY ATTACHED.

THE ZACK CO.

BY

Purchasing Agent

SELLER'S COPY



PITTSBURGH TESTING LABORATORY

ESTABLISHED 1881

850 POPLAR STREET, PITTSBURGH, PA. 15220

AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC AND OURSELVES, ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS, AND AUTHORIZATION FOR PUBLICATION OF STATEMENTS, CONCLUSIONS OR DETAILS FROM OR REGARDING OUR REPORTS IS RESERVED PENDING OUR WRITTEN APPROVAL.

PLEASE REPLY TO:
P. O. BOX 1648
PITTSBURGH, PA. 152

AREA CODE 412 TELEPHONE 622-4000

LABORATORY No. 823078

CLIENT'S No.

ORDER No. CH-5094

REPORT

October 28, 1981

REPORT OF: Actual Tensile Test of Bolts ASTM A307

REPORT TO: Pittsburgh Testing Laboratory
4418 W. Roosevelt Road
Chicago (Hillside), IL 60162

REPORT FOR: The Zack Company

Sample Identification	Item Description	Max. Load Pounds	Specification Requirement, LBF	
			Minimum	Maximum
9217-1	C-4055 1/2" x 1" Hex Bolt NCR-Q-115	2,460	1,900	3,180
9217-2	C-4055 1/2" x 3/4" Hex Bolt NCR-Q-115	2,380	1,900	3,180
9217-3	C-4072 1/2" x 1" Cap Screw NCR-Q-114	9,750	8,500	14,190
9217-4	C-4286 1/2" x 1" Hex Hd. Cap Screw NCR-Q-112	2,380	1,900	3,180
9217-5	C-4406 3/8" x 1" Hex Hd. Bolt NCR-Q-111	4,990	4,650	7,750
9217-6	C-4484 1/2" x 20 x 3/4" Cap Screw NCR-M-110	2,540	1,900	3,180
9217-7	C-4484 1/2" x 20 x 1" Cap Screw NCR-M-110	2,510	1,900	3,180
9217-8	C-4491 3/8" x 16 x 1 1/2" Cap Screw NCR-C-109	5,580	4,650	7,750

All samples fractured in the threads.

Length of bolts would not permit loading by the wedge method.

All samples submitted by client for testing.

ZACK QUALITY ASSURANCE	
REVIEWED BY	<i>[Signature]</i>
CONTROL NO.	C-9217-C4513
DATE	10/31/81
COMMENT	<i>For Items as listed</i>

PITTSBURGH TESTING LABORATORY

[Signature]
Earl Gallagher, Manager
Physical Testing Department

Delta Screw Company

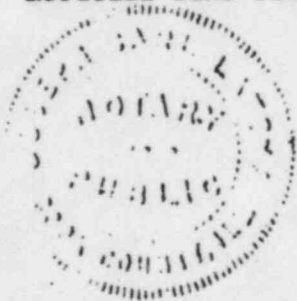
2036 N. CAMPBELL AVE. • PHONE 384-7600 • CHICAGO, ILLINOIS 60647
COLD HEADED SPECIALS OF ALL TYPES
BOLTS • SCREWS • NUTS • RIVETS • WASHERS

January 13, 1982

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

Attention Carl Eichstaedt

We hereby certify that the material furnished on your order C-4484 was manufactured by a domestic source and in accordance with applicable quality requirements per ANSI B27.2-1965 specification for low carbon steel flat washers. The washers are made from AISI-1010 steel. They are zinc plated in accordance with the ASTM-B633-78 specification for commercial zinc finish.



Joseph Latona
NOTARY PUBLIC
FOR COOK COUNTY, ILLINOIS
My commission expires -
November 29, 1985

Delta Screw Company

Joseph Latona
Joseph Latona
Vice President

ZACK QUALITY ASSURANCE	
REVIEWED BY	<i>Long J. Mendel</i>
CONTROL NO.	C-4484
DATE	1-12-82
COMMENTS	



PITTSBURGH, PENNA.

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FOR PUBLICATION OF STATEMENTS, CONCLUSIONS OR EXTRACTS THEREFROM OR REPRODUCING
OUR REPORTS IS RESERVED PENDING OUR WRITTEN APPROVAL

ORDER NO. CH 5094

LABORATORY NO. 9217
CUSTOMER NO. C-4513

10-23-1981

PART OF TENSILE TEST OF Bolts and cap screws

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

DESCRIPTION	ORIGINAL AREA SQ. IN.	TILLO POUNDS	MAXIMUM LOAD POUNDS	YIELD LB. PER SQ. IN.	TENSILE STRENGTH LB. PER SQ. IN.	ELONGATION IN. IN. PER CENT	REDUCTION OF AREA PER CENT	FRACTURE
Description	P.C.			P	S			
1/4 x 1" bolt	C4055		2460	.023	.028			
1/4 x 3/4" bolt	C4055		2380	.004	.016			
1/2 x 1" capscrew	C4072		9750	.004	.024			
1/4 x 1" hex head cap screw	C4286		2380	.023	.022			
3/8 x 1" hex head cap bolts	C4406		4990	.008	.012			
1/4 x 3/4" cap screw	C4484		2540	.004	.011			
1/4 x 1" cap screw	C4484		2510	.003	.018			
3/8 x 1/4" cap screw	C4491		5580	.007	.023			

ZACK QUALITY ASSURANCE

REVIEWED BY *[Signature]*
CONTROL NO. 10-2-4211-C-4513

DATE 10-23-81

COMMENT For items AS
L-4513

PITTSBURGH TESTING LABORATORY

[Signature]
David A. Dunn, Manager Chem. Inst.

1. REPORT NUMBER m-110

2. DATE 9-22-81

C-4484
3. ITEM / PART NUMBER

Plant-1
4. AREA / BUILDING

4484
5. DRAWING NUMBER

6. OWNER FURNISHED MATERIAL OR EQUIPMENT ☐ YES ☒ NO

7. Q. LISTED ☒ YES ☐ NO

3. DESCRIPTION OF NON CONFORMANCE: 2000 pieces each of 1/4 x 20 x 1 and 1/4 x 20 x 3/4
cap screws are not marked with a raised or depressed mark
on the head of the screws as stated in ASTM A-307-78
Supplier: Delta Screw Co.

AG No. 04029, 04030

9. REPORTED BY James Michalik

8. RECOMMENDED CORRECTIVE ACTION: Return To Vendor For proper
screws or use as non-nuclear material

James Michalik 9-22-81
11. QC INSPECTOR / DATE

C. Richard 9-22-81
12. QC MANAGER / DATE

R. J. [Signature] 9-22-81
13. PROJECT MGR./PLANT SUPT./DATE

14. CORRECTIVE ACTION TAKEN: SEE BECHTEL SDDR 2187

COPY ATTACHED TO THIS NLR.

MATERIAL ACCEPTED PER BECHTEL SDDR 2187

Carl E. [Signature] 12/30/81
15. PROJECT ENGINEER / DATE

Carl E. [Signature] 12/30/81
16. PROJECT MGR./PLANT SUPT./DATE

17. VERIFICATION OF CORRECTIVE ACTION TAKEN:

CORRECTIVE ACTION AS OF 12-30-81

ACCEPTED ☒

REJECTED ☐

C. Richard 12-30-81
19. QC INSPECTOR / DATE

R. J. [Signature] 12-30-81
20. MANAGER / DATE

QC

VC-4484

BEING USED FOR MIDLAND FLEX CON.

SEE SDDR #2187 AND #2219

11-22-81

VC-4473

SHIPPED TO MIDLAND SAME SDDR'S LOAD #154 (12-31-81)

VC-4286

(4-14-81)

MIDLAND JOB SITE LOAD #127 - LASALLE JOB SITE LOAD #290
REST IN SHOP. ON UCR # Q-1121 FOR MIDLAND USE (5-18-81)

only.

C. Richard

2-15-82

Mark S.

12-22-81 all rec. Supplements #1

1. REPORT NUMBER m-110

2. DATE 9-22-81

3. ITEM / PART NUMBER C-4484

4. AREA / BUILDING Plant-1

5. DRAWING NUMBER 4484

6. OWNER FURNISHED MATERIAL OR EQUIPMENT ☐ YES ☒ NO

7. Q. LISTED ☒ YES ☐ NO

8. DESCRIPTION OF NON CONFORMANCE: 2000 pieces each of 1/4 x 20 x 1 and 1/4 x 20 x 3/4
cap screws are not marked with a raised or depressed mark
on the head of the screws as stated in ASTM A-307-78
Supplier: Delta Screw Co.

Tag No. 04029, 04030

9. REPORTED BY: James Michaelik

10. RECOMMENDED CORRECTIVE ACTION: Return To Vendor For proper
screws or use as non-nuclear material

James Michaelik 9-22-81
11. QC INSPECTOR / DATE

C. Richards 9-22-81
12. QC MANAGER / DATE

R. J. Casper 9-22-81
13. PROJECT MGR. / PLANT SUPT. / DATE

4. CORRECTIVE ACTION TAKEN: SEE BECHTEL SDDR 2187

copy ATTACHED this NCR.

MATERIAL ACCEPTED PER BECHTEL SDDR 2187

Carl E. Eichstaedt 12/30/81
5. PROJECT ENGINEER / DATE

Carl E. Eichstaedt 12/30/81
16. PROJECT MGR. / PLANT SUPT. / DATE

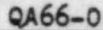
7. VERIFICATION OF CORRECTIVE ACTION TAKEN:

CORRECTIVE ACTION AS OF. 12-30-81

8. ACCEPTED ☒ REJECTED ☐

C. Richards 12-30-81
19. QC INSPECTOR / DATE

R. J. Casper 12-30-81
20. MANAGER / DATE



PROJECTS, ENGINEERING
AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

14. Evaluation Reviewed by Manager,
MPQA or Section Head, QAE&I/Date:



CUSTOM METAL FABRICATION

April 16, 1982

To: All Zack Personnel
From: Christine Zack DeZutel
Ref: Document Control Records

EFFECTIVE IMMEDIATELY !

It has been brought to Managements attention that certain allegations have been made to Consumers Power Corp. that questions the integrity of The Zack Quality Assurance Records.

Let me assure you that nothing is farther from the truth! The Zack Company has now and always will stand behind the integrity of its products; both metal and paper.

The Zack Company has notified Consumers Power Corp. that it will cooperate and assist in everyway possible to clear the Zack Company name.

In order to provide the greatest assurance to ourselves and to the Investigating Team that nothing changes its present condition in the Document Control area, the following special provisions now apply:

1. A. Wanninger has been appointed Overseer of the Records Department until the completion of the investigation. In this capacity he will be the watchdog of upper management to verify no unauthorized personnel has access to the records or that the records are changed from the present condition, except as stated below:
 - A. NO packages will be taken from the Document Control center. If copies are needed for reference they will be run by the document control personnel only under the authorization of Mr. Wanninger.
THERE ARE NO EXCEPTIONS!

Continued

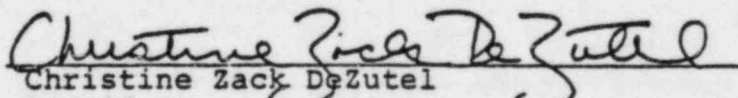
April 16, 1982

Memo to Zack Personnel

Page 2

- B) NOTHING will be removed from the existing document packages. New material received will be reviewed and stamped in accordance with present practice. Old material will be left in the folder and stamped void and initialed and dated.
- C) All changes to packages are to be verified and authorized by Mr. Wanninger.
- D) All keys to the Document Control Room and cabinets will be turned over to Mr. Wanninger immediately. No other persons will have access to those files.
- E) The Document Control Department will function only according to the following schedule:
- 8:00 AM - Mr. Wanninger will unlock room & cabinets. Work may begin.
- 12:00 Noon - All files will be returned and cabinets locked.
- 12:30 PM - Mr. Wanninger will unlock files - work may resume.
- 4:30 PM - All files will be returned and cabinets locked.
2. The above rules will stay in affect until the investigation is complete.

Your cooperation and adherence to these rules is expected and any violations could result in dismissal.


Christine Zack DeZutel
President

CZDZ/nw

Amesbury

35

QUALITY ASSURANCE TRAINING REPORT

35

PROJECT NO. _____

1. DATE APRIL 27, 1982

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	D. Allbritten	Dma	OAE
3	M. Cione	MTC	Doc. Control ^{PERSONNEL} Clerk
4	T. Howard	OUT	Doc. Control Super.
5	C. Grant	CG	Doc. Control ^{PERSONNEL} Clerk
6	A. Wanninger	AW	Plant Engineer
7			
8			
9			
10			
11			

DESCRIPTION OF TRAINING SESSION CONDUCTED

12. Indoctrination in the proper flow of documentation
(CMTR, C of C, P.O., RIR, Receiving checklist, Hold, NCR)
and individual responsibilities.

13. Rf Buciaga LOAE
Q.A. TRAINING INSTRUCTOR

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

ZQF-23



CUSTOM METAL FABRICATION

April 29, 1982

To: CHRISTINE DeZUTEL

From: TERRY HOWARD

Re: CAR 20 (see attached)

Some comments on item #7 of subject CAR:

1. Records are insufficient to verify necessary training of all personnel connected with 'Q' (Quality) materials that are used by The Zack Company in Nuclear related contracting.
2. All personnel includes those who have a part in the Quality Assurance functions of the company.
3. Document Control Department extends to those same individuals.
4. Compressed time schedules are certainly germane to the forgoing three.

In keeping with the recommendation and direction of yourself and Mr. Skates, may I submit the following corrective action proposal outline to be the subject of a subsequent Corrective Action Request (CAR):

I. The Zack Company Quality Assurance Training Program....

- A. Formal, Documented and Published.
- B. Identification of personnel directly engaged in Quality Assurance Functions.
- C. Identification of personnel indirectly engaged in Quality Assurance activities.

II. The Zack Company Quality Assurance Training Program - Subject Items:

- A. Priority Studies
 1. Client Contract Specifications
 2. Federal Regulations 10CFR50 (Appx. B), etc.

(cont'd)

To: Christine DeZutel
From: Terry Howard
Re: CAR 20

-2-

April 29, 1982

3. Applicable nationally recognized codes:
(i.e.) ANSI, ASME, AISI, AWS, etc.

4. Zack Company QAM's.

B. Procedural Priority Studies

1. QAI - 3)
2. QAI - 4 } (Suggested updating)
3. PQCP-7, Rev. 5 (Document Control) - Midland
4. PQCP-7, Rev. 8 (Plant Document Control) - Clinton

C. Required Reading

1. All published material listed in A & B
2. Any assigned reading by qualified instructors engaged in the performance of carrying out the Zack Company Quality Assurance Training Program.

III. Zack Company Commitment

- A. Incorporate in official company policy.
- B. Monetary impact.
- C. Compensated release-time for participants.

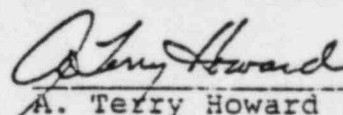
IV. Employee Commitment

- A. Adopt formalized training as a necessary step in continued employment.
- B. Follow through with more efficient and effective work habits.

The foregoing is an outline that merely encompasses what, I believe, are necessary actions. Such actions will, without any doubt or question, update the verification issue of all personnel engaged in the Quality Assurance functions of the Zack Company.

It is my intention to discuss this same 'recommended direction' with you.

TH/lf
CC: M. Skates
.QA File


A. Terry Howard



CUSTOM METAL FABRICATION

April 30, 1982

To: Terry Howard
From: Christine Zack DeZutel, President
Re: Memo dated 4/29/82

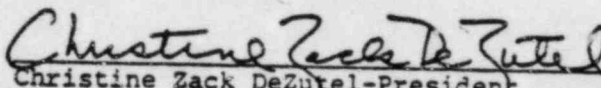
1. CAR #20, issued 4/28/82, action assignee yourself, specifically delineated the Document Control Department.
2. The only connection between the Document Control and Quality Assurance Department was a reporting line on Zack Company's organizational chart.
3. You supervised a clerical function.
4. As supervisor of this function for four months, and your stated 24 year experience in high school educating, your lack of documented training of your clerks is appalling.
5. You have been employed by The Zack Company for 6 months. Your total lack of previous business expertise, especially in the nuclear industry, in my opinion, precludes you from making value judgements and hypothecations regarding a nuclear related quality program. Suggestions, as such, would be appropriately channeled to the corporate Quality Assurance Manager Mr. Martin Skates.

April 30, 1982

To: Terry Howard

Page 2

6. In my opinion, sir, your performance with The Zack Company is a classic example of the "Peter Principle".
7. The corrective action you prescribe is not applicable to CAR #20 and, therefore, unacceptable.
8. I have redirected the disposition of CAR #20 to Mr. Howard McGrane.


Christine Zack DeZutel-President

~~SECRET~~

39

THE ZACK CO
4600 WEST 12 PL
CHICAGO IL 60650

Mailgram

4-056299S120 04/30/82 ICS IPMBNGZ CSP CGCB
3122423434 MGM TDBN CHICAGO IL 76 04-30 0255P EST

MR MARK CIONE
1335 GUNDERSON
BERWYN IL 60402

MR CIONE,

AS YOU ELECTED TO LEAVE WORK BEFORE THE CLOSE OF BUSINESS ON FRIDAY, APRIL 30, 1982 THIS TELEGRAM WILL SERVE TO NOTIFY YOU THAT YOUR EMPLOYMENT WITH THE ZACK COMPANY TERMINATED EFFECTIVE 230 PM FRIDAY, APRIL 30, 1982 DUE TO A STRUCTURAL REORGANIZATION. THE ZACK COMPANY HAS MAILED YOUR CHECK FOR A FULL 40 HOUR WEEK BY REGISTERED MAIL RETURN RECEIPT REQUESTED.

CHRISTINE ZACK DEZUTEL PRESIDENT

14:57 EST

MGMCOMP

the **ZACK** co.

CUSTOM METAL FABRICATION

January 22, 1982

RMC Inc.
321 E. Grand Ave.
Chicago, Ill. 60611

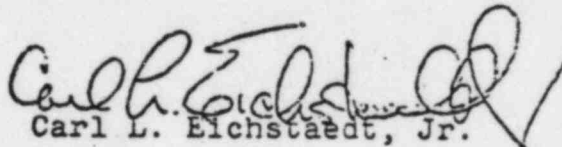
Attn: Mr. Bruno Blachowicz

Re: LaSalle County Power Station
J-2590/HVAC
Zack Co. P.O. C-9509

Gentlemen:

Kindly issue a letter of conformance for the above
purchase order. We are enclosing an example.

Yours very truly,
THE ZACK COMPANY


Carl L. Eichstaedt, Jr.

CLE/nw

cc: C. Baumgardner
Q.A.
File

Attachment (1)

January 22, 1982
RMC Inc.
Attachment

Zack Company
4600 W. 12th Place
Chicago, Ill. 60650

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

Re: Commonwealth Edison Company
LaSalle Nuclear Power Station
Project No. 4266/4267
HVAC/J-2590
P.O. C-9509

Gentlemen:

This is a letter of conformance certifying that the materials furnished by us for the refrigeration piping for the following systems are in compliance with Sargent & Lundy's J-2590 Technical Specifications and Sargent & Lundy approved Vendor/Supplier accessory data sheets. The systems are; Service Building 1, 2 and 3 (OVS); Off Gas Building 1 and 2 (OVO); Auxilliary Building Office (QVA); Auxilliary Building Laboratory (OVL); Control Room 1 and 2 (OVC) and Auxilliary Electrical Equipment 1 and 2 (OVE).

Bruno Blachowicz
Vice President

Contracting
Engineering
Since 1930



REFRIGERATION • AIR CONDITIONING • HEATING

321 East Grand Avenue, Chicago, Illinois 60611 • Service Department: 321-1300 • Sales and Offices 321-1333

January 22, 1982

RMC, Inc.

Attachment

Zack Company

4600 W. 12th Place

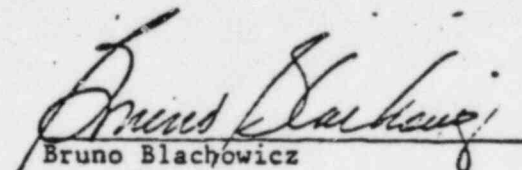
Chicago, IL 60650

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

Re: Commonwealth Edison Company
LaSalle Nuclear Power Station
Project No. 4266/4267
HVAC/J-2590
P.O. C-9509

Gentlemen:

This is a letter of conformance certifying that the materials furnished by us for the refrigeration piping for the following systems are in compliance with Sargent & Lundy's J-2590 Technical Specifications and Sargent & Lundy approved Vendor/Supplier accessory data sheets. The systems are; Service Building 1, 2 and 3 (OVS); Off Gas Building 1 and 2 (OVO); Auxilliary Building Office (OVA); Auxilliary Building Laboratory (OVL); Control Room 1 and 2 (OVC) and Auxilliary Electrical Equipment 1 and 2 (OVE).


Bruno Blachowicz
Vice President



Service • Contracting • Engineering • Since 1930

MEMBER: Air Conditioning and Refrigeration Contractors Association

91



"WELDERS SERVICE CENTER"

1750 MITCHELL ROAD • AURORA, ILL. 60504 • PHONE (312) 859-3100

LINDE (UNION CARBIDE)
INDUSTRIAL GASES
SPECIALTY GASES
WELDING EQUIPMENT
CHEMETRON

LINCOLN
MILLER
McKAY
VICTOR
RANSOME

April 6, 1982

Mr. Carl Eichstaedt
The Zack Company
4600 W. 12th Place
Chicago, Illinois 60650

REFERENCE: YOUR LETTER DATED MARCH 31, 1982

Dear Mr. Eichstaedt:

In answer to your letter dated March 31, 1982, we do not have any recall on any certification papers dating as far as back as 1978.

Lincoln Electric Company has a form, which we are enclosing for your evaluation and files. This form will enable you to type any information that you are missing. Due to this material in question being typical material, there should be no problem with your company filling out this information.

I trust this will help you with this problem.

Yours truly,

WELDSTAR COMPANY

Ed Houk

Ed Houk
Manager of Customer Service

EH:ld
Encl.

cc: Tim Shanahan
Nuclear Sales Engineer

DEPOSED AND SWORN TO BEFORE ME THIS

DAY OF May 1981Juanita S. Huynh

JUANITA S. HUYNH, Notary Public

State of Ohio - (State Seal)

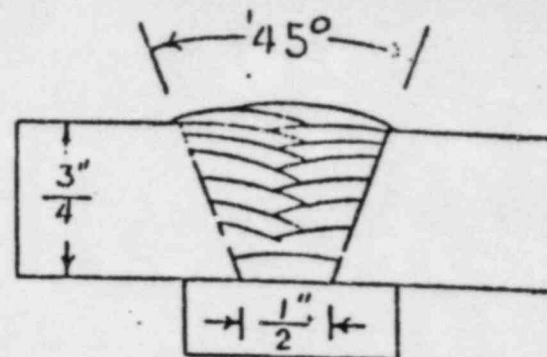
My Commission expires November 8, 1983

CERTIFICATE OF CONFORMANCE TO REQUIREMENTS
FOR WELDING ELECTRODE
(APPLIES ONLY TO U.S. MANUFACTURED PRODUCTS)

SUPPLIED TO: _____

DATE: _____

ORDER NO. _____



This is to certify that Fleetweld® 35, classification E6011, supplied on the above order number is of the same classification, manufacturing process and material requirements as the electrode used for this annual test, concluded on May 14, 1981. All tests required by AWS A5.1-78 and ASME SFA-5.1 were performed in conformance with these specifications and the above material met all requirements. Joint configuration and pass sequence for 5/32" electrode are shown at upper right.

Operating settings and mechanical properties of the weld deposits were as follows:

	AWS/ASME Requirements	5/32"		3/16"		1/4"	
		AC	DC+	AC	DC+	AC	DC+
Current (amps)		145	140	180	170	250	240
Number of Passes/Layers		15/8	15/8	12/7	12/7	17/10	17/10
Preheat Temp. (°F)	225 ± 25	225	225	225	225	225	225
Interpass Temp. (°F)	225 to 350	300	300	300	300	300	300
Tensile Strength (psi)	62,000 min.	78,900	78,900	72,500	72,500	70,300	70,900
Yield Strength (psi)	50,000 min.	68,200	67,200	61,900	62,900	62,600	63,900
Elongation, % in 2"	22 min.	24	25	30	32	27	29
Hardness, Rockwell B (avg)	Not required	84	81	82	81	79	77
Impact Properties (Charpy V-Notch), ft-lbs. at -20°F	20 min.	49 (42, 50, 54)	59 (58, 59, 60)	56 (47, 60, 60)	63 (56, 66, 67)	44 (35, 46, 50)	57 (52, 61, 64)

Chemical analysis is not required for this classification.

Radiographic Test, Grade II: Met requirements.

Fillet Test (positions as required): Met requirements.

No tests are required of the 1/8" and 7/32" sizes.

Charles W. Haynes
Supervising Engineer

J. Gonzalez
Chief Engineer

J. F. Lincoln Jr.



CUSTOM METAL FABRICATION

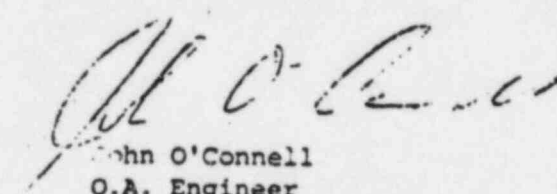
September 14, 1981

DISTRIBUTION

FROM: John O'Connell

SUBJECT: Internal audit results on "Audits, Vendor/Supplier, Procurement"

Enclosed are the internal audit results for "Audits, Vendor/Supplier, Procurement" performed on 9/10/81.


John O'Connell
Q.A. Engineer

cc: G.Z. DeZutel
J.C. DeZutel
D.E. Calkins
R. Hagen
C. Richards
Q.A. files

THE ZACK CO.

QA AUDIT REPORT

1. Project Internal
 2. Organization Audited Audits, Vendor/Supplier, Procurement
 3. Audit Location Zack Company
4600 W. 12th Pl.
Chicago, (Cicero) IL 60650
 4. Audit No. IZC/B1-7
 5. Audit Date(s) 9/10/81
 6. Auditors J. O'Connell

7. Audit Purpose and Scope: To verify compliance with PQCP-17, ZOAM, 10CFR50 Appendix B and ANSI N45.2 on Zack plant facilities

8. Individuals Contacted:

Name	Position	Pre-Audit	Entrance	Exit	Other
D.E. Calkins	Q.A. Mgr.	—	—	—	✓
R. Hagen	Purchasing	—	—	—	✓
C. Richards	QC Mgr.	—	—	—	✓
K. Schaeffler	QA Engineer	✓	—	—	✓
		—	—	—	—
		—	—	—	—
		—	—	—	—
		—	—	—	—
		—	—	—	—
		—	—	—	—
		—	—	—	—
		—	—	—	—
		—	—	—	—

9. Audit Summary Several serious program deficiencies were noted: No vendor evaluation for suppliers on the AVL & no designation for safety or non-safety related on requisition or purchase order. Other findings are noted in the attached checklist. It also appeared that a lack of attention to detail in filling out requisitions was noted, a large number of requisitions were missing signatures.

10. Lead Auditor J. O'Connell

Date 9/15/81

THE ZACK CO.

QUALITY ASSURANCE FINDING

PAGE _____ OF _____

1. PROJECT/DEPARTMENT/SUPPLIER Audits, Vendor/Supplier, Procurement		2. TYPE OF AUDIT/SURVEILLANCE Office <input type="checkbox"/> Internal <input checked="" type="checkbox"/> Field <input type="checkbox"/>		3. AUDIT IDENT. IZC/81-7
4. AUDITOR J. O'Connell		5. DATE OF FINDING 9/14/81		7. DISCUSSED WITH D. Calkins
6. CONTROLLING DOCUMENT, SECTION, PARAGRAPH, ETC. ZQAM, PQCP-17, Rev. 0 para 2.13				
8. REQUIREMENTS Corrective action deficiencies shall be verified by re-audit				
9. FINDING Verification by re-audit could not be determined.				
10. RECOMMENDED ACTION/S re-evaluate				
11. SCHEDULED COMPLETION DATE 10/14/81		12. RESPONSIBILITY FOR CORRECTIVE ACTION D. Calkins		
13. CORRECTIVE ACTION TAKEN Zack is in the process of re-evaluating all vendors, this finding will remain open until complete evaluation has been performed.				
14. DATE COMPLETED Nov. 13, 81	15. SUBMITTED BY RESPONSIBLE AUTHORITY <i>M.L. Skates</i> M.L. SKATES, I.Q.A.E.		16. CORRECTIVE ACTION ACCEPTED <input checked="" type="checkbox"/> NOT ACCEPTED <input type="checkbox"/>	
17. VERIFICATION ACTIONS BY				
18. IMPLEMENTATION ACCEPTED <input type="checkbox"/> NOT ACCEPTED <input type="checkbox"/>		DATE		
19. DISTRIBUTION				

THE ZACK CO.

QUALITY ASSURANCE FINDING

PAGE _____ OF _____

1. PROJECT/DEPARTMENT/SUPPLIER Audits, Vendor/Supplier, Procurement		2. TYPE OF AUDIT/SURVEILLANCE Office <input type="checkbox"/> Internal <input checked="" type="checkbox"/> Field <input type="checkbox"/>		3. AUDIT IDENT. IZC/81-7
4. AUDITOR J. O'Connell		5. DATE OF FINDING 9/14/81		7. DISCUSSED WITH D. Calkins
6. CONTROLLING DOCUMENT, SECTION, PARAGRAPH, ETC. ZQAM, PQCP-17, Rev. 0 para. 8.1				
8. REQUIREMENTS Surveys shall be performed by Auditors or Lead Auditors.				
9. FINDING Zack has historically not performed any surveys on approved vendors, nor is there any historical data to back-up qualification of vendors.				
10. RECOMMENDED ACTION/S Re-qualify all vendors.				
11. SCHEDULED COMPLETION DATE 12/1/81		12. RESPONSIBILITY FOR CORRECTIVE ACTION D. Calkins		
13. CORRECTIVE ACTION TAKEN Surveys of vendors are in process, this finding will remain open until all vendors can be re-evaluated.				
14. DATE COMPLETED	15. SUBMITTED BY RESPONSIBLE AUTHORITY <i>D. Calkins</i> D. CALKINS, Q.A.M.		16. CORRECTIVE ACTION ACCEPTED <input checked="" type="checkbox"/> NOT ACCEPTED <input type="checkbox"/>	
17. VERIFICATION ACTIONS BY				
18. IMPLEMENTATION ACCEPTED <input type="checkbox"/> NOT ACCEPTED <input type="checkbox"/>		19. DISTRIBUTION		

1. PROJECT/DEPARTMENT/SUPPLIER Audits, Vendor/Suppliers, Procurement		2. TYPE OF AUDIT/SURVEILLANCE OFFICE <input type="checkbox"/> INTERNAL <input checked="" type="checkbox"/> FIELD		3. AUDIT IDENT. I7C/81-7
4. AUDITOR J. O'Connell		5. DATE OF FINDING 9/14/81		7. DISCUSSED WITH D. Calkins K. Schaefer
6. CONTROLLING DOCUMENT, SECTION, PARAGRAPH, ETC. 70AV, PQCP-15, Rev. 1 para. 6.1.2				
8. REQUIREMENTS "The requisition will include the following, identification as safety related or non-safety related"				
9. FINDINGS There is no designation or identification of material as safety or non-safety related.				
10. RECOMMENDED ACTION/S Re-evaluate material requisitions.				
11. SCHEDULED COMPLETION DATE 10/14/81		12. RESPONSIBILITY FOR CORRECTIVE ACTION R. Hagen		
13. CORRECTIVE ACTION TAKEN Zack Co. takes the position that any material requiring certification is determined to be safety related. Changes in PQCP-15 are being initiated by Zack Co. to change some of these requirements.				
14. DATE COMPLETE 9/29/81	15. SUBMITTED BY RESPONSIBLE AUTHORITY D. Calkins		16. CORRECTIVE ACTION ACCEPTED <input checked="" type="checkbox"/> NOT ACCEPTED <input type="checkbox"/>	
17. VERIFICATION ACTIONS BY				
18. IMPLEMENTATION ACCEPTED <input type="checkbox"/> NOT ACCEPTED <input type="checkbox"/>		19. DISTRIBUTION		

QUALITY ASSURANCE FINDING

PAGE 1 OF 1

1. PROJECT/DEPARTMENT/SUPPLIER Audits, Vendor/Supplier, Procurement		2. TYPE OF AUDIT/SURVEILLANCE OFFICE <input type="checkbox"/> Internal <input type="checkbox"/> FIELD		3. AUDIT IDENT. IZC/81-7												
4. AUDITOR J. O'Connell		5. DATE OF FINDING 9/14/81		7. DISCUSSED WITH D. Calkins												
6. CONTROLLING DOCUMENT, SECTION, PARAGRAPH, ETC. FORM 8002-15, Rev. 1 para 6.7																
8. REQUIREMENTS The requisition after approval by the QAM is forwarded to the purchasing dept. for assignment to a vendor/supplier & preparation of purchase order.																
9. FINDING The following requisitions did not have signature approval by purchasing: <table border="0"> <tr><td>#915</td><td>904</td></tr> <tr><td>877</td><td>884</td></tr> <tr><td>898</td><td>866</td></tr> <tr><td>888</td><td>900</td></tr> <tr><td>873</td><td>878</td></tr> <tr><td>917</td><td></td></tr> </table>					#915	904	877	884	898	866	888	900	873	878	917	
#915	904															
877	884															
898	866															
888	900															
873	878															
917																
10. RECOMMENDED ACTION/S re-evaluate requisition																
11. SCHEDULED COMPLETION DATE 10/14/81		12. RESPONSIBILITY FOR CORRECTIVE ACTION R. Hagen														
13. CORRECTIVE ACTION TAKEN All Purchase Requisitions are now being reviewed by Q.A. to insure proper signatures and the spec. requirements are incorporated.																
14. DATE COMPLETED Nov. 13, 81	15. SUBMITTED BY RESPONSIBLE AUTHORITY <i>M.L. Skates</i> M.L. SKATES, L.Q.A.E.		16. CORRECTIVE ACTION <input checked="" type="checkbox"/> ACCEPTED <input type="checkbox"/> NOT ACCEPTED													
17. VERIFICATION ACTIONS BY																
18. IMPLEMENTATION <input type="checkbox"/> ACCEPTED <input type="checkbox"/> NOT ACCEPTED		19. DISTRIBUTION														

43
A-W

Test Report

JOB, CONTRACT NO.

P.O. DATE

PURCHASE ORDER NO.

SHIPPERS NO.

200341

MILL ORDER NO.

INVOICE NO.

161-00704

VEHICLE
IDENTITY

TRUCK

WE HEREBY CERTIFY THAT THE CHEMICAL
ANALYSES AND/OR TEST RESULTS SHOWN IN
THIS REPORT ARE CORRECT AS CONTAINED
IN THE RECORDS OF THE COMPANY.

SIGNATURE *Belkin*

DATE

1-4-79

MANAGER QUALITY ASSURANCE

THE ZACK COMPANY

CHICAGO, ILLINOIS

S
H
I
P
T
O

USS GALV. LPQ G90

QUALITY ASSURANCE REVIEW

COMPLETED BY: *ccy*

RELEASED BY: _____

NOT REQUIRED BY: _____

RELEASED TO PURCHASE BY: _____ DATE: _____

1-4-79

PURCHASE ORDER NO.	MILL ORDER NO.	ITEM NO.	MATERIAL DESCRIPTION		HEAT NO.	TEST OR PIECE IDENTITY	YIELD ST.	TENSILE STR.	ELONGATION %		% RED. OF AREA
			THICKNESS OR SECTION	WIDTH, DIA. OR FT. WT.					IN 8"	IN 12"	
C-739	CH53990	01	.0580 IN. MIN. THICKNESS		J74531	AVG. CTG. WEIGHT .94					
<div>QUALITY ASSURANCE REVIEW</div> <div>COMPLETED BY: _____</div> <div>RELEASED BY: _____</div> <div>NOT REQUIRED BY: _____</div> <div>RELEASED TO PURCHASE BY: _____ DATE: _____</div>											

ITEM NO.	TYPE	C	MN	P	S	SI	CU	NI	CR	MO
4531		.08	.46	.006	.013					

COIL No. 402-10040*
" " 403-9400*

CHICAGO
ILL. 60623DETROIT
MICHIGANFLINT
MICHIGANGARY
INDIANAMIAMI
FLORIDA

THE ZACK CO.

4600 W. 12TH PLACE

CHICAGO, ILL. 60620

AREA CODE 312

PHONES Ullshtp 2-3434 OLYmpic 6-0250

VENTILATION

AIR CONDITIONING

DATE 6-11-73

P. O. NO. C 865

SHIP TO

THIS NUMBER MUST
APPEAR ON ALL
INVOICES, PACKING
SLIPS AND PACKAGE

TO:

Edgcomb Metals
P.O. Box 740 A
3140 W. Fullerton
Chicago, Ill 60623
ATTN: Larry Quirk

KELINCE GALVANIZED

REQUIRED AT DESTINATION ON OR BEFORE

F. O. B. TERMS

SHIP VIA

PAYMENT TERMS

QUANTITY AND UNIT	DESCRIPTION OF MATERIAL OR SERVICE	PRICE AND UNIT
40'	W 8 x 31 20's 865	
40'	W 8 x 13 20's 865-1	
40'	W 8 x 21 20's 865-2	
100'	W 6 x 12 20's 865-3	
60'	W 6 x 15.5 20's 865-4 15.5 ft	
20	W 6 x 43 20 865-5	
All ASTM - A36 CERTIFICATES REQUIRED		

QUALITY ASSURANCE REVIEW	DATE 6-11-73
COMPLETED BY: [Signature]	DATE 6-11-73
RELEASED: [Signature]	DATE 6-11-73
NOT REQUIRED BY: [Signature]	DATE 6-11-73
RELEASE TO PURCHASE BY: [Signature]	DATE 6-11-73

PURPOSE:

JOB 2401

ACKNOWLEDGE ORDER PROMPTLY,
ADVISING WHEN SHIPMENT WILL BE MADE

JOB NAME	JOB NO.
PARTICULARS:	

This order, including the terms and conditions on the face of the reverse side hereof, contains the complete and final agreement between buyer and seller and no other agreement in any way modifying any of said terms and conditions will be binding upon buyer unless made in writing and signed by buyer's authorized representative.

This order is not binding until accepted. Acceptance is required on acknowledgment copy attached.

See Terms and Conditions on Reverse Side of This Order

THE ZACK CO.

BY

PURCHASING AGENT

IF ADDITIONAL
INFORMATION IS
REQUIRED PLEASE
ASK FOR

INVOICES MUST BE IN DUPLICATE

FOR FILE OR COMMUNICATIONS FILE

C 865

1000 N. 60th St.
Chicago, Ill. 60631
312-7700

☐ 7201 W. Bradley Rd.
Milwaukee, Wisc. 53223
414-354-1900

☐ 5151 Wesson Ave.
Detroit, Mich. 48210
313-896-3000

☐ 401 Harding St. N.E.
Minneapolis, Minn. 55413
612-331-4000

☐ 4565 McRae Ave.
St. Louis, Mo. 63110
314-771-5255

☐ 2185 N. Sherman Dr.
Indianapolis, Ind. 46218
317-546-1535

CERTIFICATE OF TESTS

☒ ACTUAL ☐ NOMINAL
REPORT No.

Purchaser Zack Co of Chicago
4600N. 12th Place
Address Chicago, Il. 60650

Date June 15, 19 7

Item	Purchaser's Order No.	Our Order No.	DESCRIPTION	SPECIFICATION
1	C865	X79353	W8 x 31# x 20 ft HR Struct Beams	
2	" 865-1	"	W8 x 13# x 20 ft HR Struct Beams	
3	" 865-2	"	W8 x 21# x 20 ft HR Struct Beams	
4			<i>See labels new shape / weight in lieu of W8 x 20#</i>	
5				

CHEMICAL COMPOSITION

Item	Al.	Cu.	Fe.	Si.	Mn.	Mg.	Zn.	Cr.	Ni.	Pb.	Sn.	C	Sul.	PH.	TI.	Mo.
1			AS PER ATTACHED MILL CERTS													
2			"	"		"										
3			"	"		"										
4																
5																

TEST RESULTS

Item	Tensile P.S.I.	Yield P.S.I.	Elong %	In.	Red in Area %	Bend Test
1	Ht. No. 85297					
2	Ht. No. 73256					
3	Ht. No. 83974					
4						
5						

☒ TESTED BY JK DATE 6-17-77
☒ CHECKED BY JK DATE 6-17-77
 TESTED BY _____ DATE _____
 CHECKED BY _____ DATE _____

Subscribed and sworn to before me this _____ day of _____

19 _____

NOTARY PUBLIC

RESULTS AS ABOVE CERTIFIED

EDGCOMB METALS

Signed

Male Planete

NORTHWESTERN STEEL AND WIRE COMPANY

STERLING, ILLINOIS 61081

METALLURGICAL DEPARTMENT - CERTIFIED MILL TEST REPORT

NSW NUMBER	SHIP DATE	R/L NO.	CUSTOMER P.O. NO.	SHIP METHOD	CAR OR TRUCK NUMBERS	SHIP LOC	INS. CO.	COPIES	DATE	TIME	CC#	1
24171	06-02-79	26704	H96017-10XG073	TRUCK	NIT 45 6	20	3				48	1

SHIP TO

EDGCOHB METALS COMPANY

2200 W 47TH ST
CHICAGO ILL

60609

SOLD TO

EDGCOHB METALS COMPANY

P O BOX 7400A
CHICAGO ILLINOIS

60600

We hereby certify that the following data is a true copy from tests performed in our laboratory.

NORTHWESTERN STEEL & WIRE COMPANY

M. B. Middleton, Supt. of Inspection

THE FOLLOWING TESTS CONFORM TO THE REQUIREMENTS OF THE SPECIFICATIONS LISTED													M. B. Middleton, Supt. of Inspection		
SECTION	SPEC.	LENGTH	PIECES	WEIGHT	HEAT #	YIELD POINT PSI	TENSILE STRENGTH PSI	ELONG. % IN 8"	BEND TEST	CAR	MAN	PHOS	SUL		
W S X 31	A36-77	60'	12	22320	85297 85297	44500 45200	66900 67200	28.1 28.1	OK OK	21	55	014	033		
865															

I, _____, A NOTARY PUBLIC IN AND FOR THE COUNTY OF WHITESIDE IN THE STATE OF ILLINOIS, DO HEREBY CERTIFY THAT THIS AFFIDAVIT WAS SWORN TO BEFORE ME BY _____

_____ A DULY AUTHORIZED AGENT OF NORTHWESTERN STEEL AND WIRE COMPANY, GIVEN UNDER MY HAND AND NOTARIAL

DAY OF _____ 19__

MY COMMISSION EXPIRES _____

REMARKS:

ORIGINAL AND DUPLICATE COPIES BY: *[Signature]* 6-11-79

DATE: _____

TIME: _____

BY: _____

DATE: _____

STERLING, ILLINOIS 61081

METALLURGICAL DEPARTMENT - CERTIFIED MILL TEST REPORT

SW NUMBER	SHIP DATE	B/L NO.	CUSTOMER P.O. NO.	SHIP METHOD	CAR OR TRUCK NUMBERS	SHIP LOC.	NO. OF COPIES	OST.	NOT.	CORR.	PAGE
SP-1	03-06-77	84871	H0350H-10XS073	RAIL	CNW 96411 CNW	24	3			40	1

EDGCOHB METALS CO
P O BOX 8855
GANTT PLANT
GREENVILLE SO CAR

29604

S
O
L
D
T
O
EDGCOHB METALS CO
P O BOX 8855
GANTT PLANT
GREENVILLE SO CAR

29604

We hereby certify that the following data is a true copy from tests performed in our laboratory.
NORTHWESTERN STEEL & WIRE COMPANY

M. B. Middleton, Capt. of Inspection

SECTION	SPEC.	LENGTH	PIECES	WEIGHT	HEAT #	YIELD POINT PSI	TENSILE STRENGTH PSI	ELONG % IN 8"	BEND TEST	CAR	MM	PHOS	SUL
W 8 X 13 ✓	A36-77	40'	40	20800	73256	46600	66200	25.1	OK	22	45	U11	026
					73256	47600	66100	26.6	OK				
W 8 X 13	A36-77	40'	28	20160	73180	49280	65700	24.2	OK	20	49	010	026
					73180	49500	66200	25.1	OK				

865-1



REMARKS:

A NOTARY PUBLIC IN AND FOR THE COUNTY OF WINDSOR IN THE STATE OF ILLINOIS, DO HEREBY CERTIFY THAT THIS AFFIDAVIT WAS

MADE AND SWORN TO BEFORE ME BY

A DULY AUTHORIZED AGENT OF NORTHWESTERN STEEL AND WIRE COMPANY, GIVEN UNDER MY HAND AND NOTARIAL

DAY OF _____ 19__

QUANTITY RECEIVED BY: *16* DATE: *6-17-77*
 COMPLETED BY: *16* DATE: _____
 NOT RECEIVED BY: _____ DATE: _____
 DEDUCTED TO PURCHASE BY: _____ DATE: _____

EDGCOMB

3. METALS
ONE OF THE WILLIAMS COMPANIESRd.
60623
41-7100☐ 7201 W. Bradley Rd.
Milwaukee, Wisc. 53223
414-354-1900☐ 5151 Wesson Ave.
Detroit, Mich. 48210
313-896-3000☐ 401 Harding St. N.E.
Minneapolis, Minn. 55413
612-331-4000☐ 4535 McRee Ave.
St. Louis, Mo. 63110
314-771-5255☐ 2185 N. Sherman Dr.
Indianapolis, Ind. 46211
317-546-1535

CERTIFICATE OF TESTS

☒ ACTUAL ☐ NOMINAL

REPORT No.

Purchaser Zack Co of Chicago4600 W. 12th PlaceAddress Chicago, Il. 60650Date July 2, 19

No. Item	Purchaser's Order No.	Our Order No.	DESCRIPTION	SPECIFICATION
1	C865-2	Y02968	420 lbs. W8 x 21 lb 20 ft HR Structural	Ht. No. 73170
2				
3				
4				
5				

CHEMICAL COMPOSITION

Item	Al.	Cu.	Fe.	Si.	Mn.	Mg.	Zn.	Cr.	Ni.	Pb.	Sn.	C	Sul.	PH.	Ti.	Mo.
1			AS PER ATTACHED MILL CERTS													
2																
3																
4																
5																

TEST RESULTS

Item	Tensile P.S.I.	Yield P.S.I.	Elong %	In.	Red in Area %	Bend Test
1	Ht. No. 73170					
2						
3						
4						
5						

COMPLETED BY CECDATE 2-4-67

NOT RECEIVED BY

DATE

RELEASED TO PURCHASER BY

DATE

Subscribed and sworn to before me this _____ day of

19 _____

RESULTS AS ABOVE CERTIFIED

EDGCOMB METALS

Signed Irma Planeta

NOTARY PUBLIC

NORTHWESTERN STEEL AND WIRE COMPANY

STERLING, ILLINOIS 61081

METALLURGICAL DEPARTMENT - CERTIFIED MILL TEST REPORT

NSW NUMBER	SHIP DATE	B/L NO.	CUSTOMER P.O. NO.	SHIP METHOD	CAR OR TRUCK NUMBERS	SHIP LOC.	NO. OF COPIES	TEST	NOT.	COAR	TIME
35043	10-19-78	51359	301-100557	TRUCK	GEN 180	24	3			30	1

SHIP TO

EDGCOHB METALS COMPANY

2250 W 47TH ST
CHICAGO ILL

60609

SOLD TO

EDGCOHB METALS COMPANY

P O BOX 7400A
CHICAGO ILLINOIS

60680

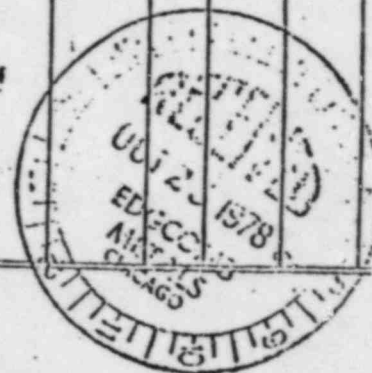
WE HEREBY CERTIFY THAT THE FOLLOWING DATA IS A TRUE COPY OF THE MILL TEST REPORTS RESULTING FROM TESTS IN OUR LABORATORY.

NORTHWESTERN STEEL AND WIRE COMPANY

BY *M. B. Middleton*

THE FOLLOWING TESTS CONFORM TO THE REQUIREMENTS OF THE SPECIFICATION LISTED HEREON														BY	
SECTION	SPEC.	LENGTH	PIECES	WEIGHT	HEAT #	YIELD POINT PSI	TENSILE STRENGTH PSI	ELONG % IN 8"	BEND TEST	CAR	AM	PHOS	SUL		
W & X (21)	A36-77	60'	8	10080	63974 33974	43700 44400	63800 63200	25.7 28.1	OK OK	25	48	006	018		
<div>new per structural shape change no longer 20'</div> <div>865-2</div>															
<div>QUALITY ASSURANCE CONTROLLED BY INSPECTED BY TESTED BY DATE DATE DATE DATE</div> <div>RECEIVED JUL 23 1978 ED-ECOM NIST</div>															

QUALITY ASSURANCE	DATE
CONTROLLED BY	DATE
REVIEWED BY	DATE
APPROVED BY	DATE



FOR THE COUNTY OF WHITESIDE IN THE STATE OF ILLINOIS. DO HEREBY CERTIFY THAT THIS AFFIDAVIT WAS

REMARKS:

A DULY AUTHORIZED AGENT OF NORTHWESTERN STEEL AND WIRE COMPANY. GIVEN UNDER MY HAND AND NOTAR

DAY OF

439 N. 1st St.
St. Louis, Mo. 63103
312-247-7700

☐ 7201 W. Bradley Rd.
Milwaukee, Wis. 53223
414-354-1800

☐ 5151 Western Ave.
Detroit, Mich. 48213
313-856-3600

☐ 401 Harding St. N.E.
Minneapolis, Minn. 55413
612-331-4000

☐ 4565 McRae Ave.
St. Louis, Mo. 63110
314-771-5255

☐ 2125 N. Sherman Dr.
Indianapolis, Ind. 46219
317-546-1535

CERTIFICATE OF TESTS

☒ ACTUAL ☐ NOMINAL

REPORT No. _____

Architect Zack Co of Chicago
4600W. 12th Place
Address Chicago, Il. 60650

Date June 15, 19 79

Purchaser's Order No.	Our Order No.	DESCRIPTION	SPECIFICATION
C865	X79353	W8 x 31# x 20 ft HR Struct Beams	
" 865-1	"	W8 x 13# x 20 ft HR Struct Beams	
" 865-2	"	W8 x 20# x 20 ft HR Struct Beams	
		<i>See sketch new shape/weight in lieu of W8 x 20#</i>	

CHEMICAL COMPOSITION

Al.	Cu.	Fe.	Si.	Mn.	Mg.	Zn.	Cr.	Ni.	Pb.	Sn.	C	Sul.	PH.	Ti.	Mo.

AS PER ATTACHED MILL CERTS

TEST RESULTS

	Tensile P.S.I.	Yield P.S.I.	Elong %	In.	Red in Area %	Bend Test
Ht. No. 85297						
Ht. No. 73256						
Ht. No. 83974						

COPIES DESTROYED BY <u>CRW</u>	DATE <u>6-18-79</u>
COPIES DESTROYED BY <u>CRW</u>	DATE <u>6-18-79</u>
COPIES DESTROYED BY <u>CRW</u>	DATE <u>6-18-79</u>

Subscribed and sworn to before me this _____ day of _____

RESULTS AS ABOVE CERTIFIED

EDGCOMB METALS

Signed _____

NOTARY PUBLIC

STERLING, ILLINOIS 61081

METALLURGICAL DEPARTMENT - CERTIFIED MILL TEST REPORT

AS ORDER NUMBER	SHIP DATE	S/L NO.	CUSTOMER P.O. NO.	SHIP METHOD	CAR OR TRUCK NUMBERS	QTY	QTY	QTY	QTY
11-76	07-25-79	59764	2723 2-2	TRUCK	47	24	3		30

We hereby certify that the following data is a true copy from tests performed in our laboratory.

NORTHWESTERN STEEL & WIRE COMPANY

M. B. Middleton, Dept. of Inspection

S H I P T O

CROWN STEEL SALES INC
3355 W 31ST ST
CHICAGO ILL 60623

S O L D T O

CROWN STEEL SALES INC
3355 W 31ST ST
CHICAGO ILL 60623

SECTION	SPEC.	LENGTH	PIECES	WEIGHT	HEAT #	YIELD POINT PSI	TENSILE STRENGTH PSI	ELONG % IN 8	MINI TEST	CAR	MM	PHOS	SUL
1 W 2 X 21	A36-77	40'	24	20160	73170	43600	66000	25.0	OK	20	55	007	026
			12	10080	73170	45100	67200	25.3	OK	20	57	009	038
					84851	42210	68240	30.5	OK	20	57	009	038
					84851	42500	66400	27.3	OK				

865-22

REMARKS:

A NOTARY PUBLIC IN AND WITH RESIDENCE IN THE STATE OF ILLINOIS, DO HEREBY CERTIFY THAT THIS AFFIDAVIT WAS

SUBSCRIBED AND SWORN TO before me by

A DULY AUTHORIZED AGENT OF NORTHWESTERN STEEL AND WIRE COMPANY, GIVEN UNDER MY HAND AND NOTARIAL

SEAL DAY OF 19

MY COMMISSION EXPIRES

QUALITY ASSURANCE REVIEW

COMPLETED BY: *[Signature]* DATE 7-9-79

RELEASED: DATE

NOT REQUIRED BY: DATE

RELEASED TO PURCHASE BY: DATE

ONE OF THE WILLIAMS COMPANIES

ADDRESS ALL
CORRESPONDENCE TO

YOUR ORDER NO. C865

DATE 7-2-79 OUR NO. X79381

SOLD TO Zack Co of Chicago
4600 W. 12th Place
Chicago, IL 60630

SHIPPED TO

DATE SHIPPED

<input type="checkbox"/> 10501 ALLEN ROAD ALLEN PARK, MI 48101 (313) 369 1000	<input type="checkbox"/> 2185 N SHERMAN DRIVE INDIANAPOLIS IN 45218 (317) 546 1535	<input type="checkbox"/> P.O. BOX 6055 PHILADELPHIA PA 191 (215) 627 1000
<input type="checkbox"/> P.O. BOX 16467 CHARLOTTE, NC 28216 (704) 394 7341	<input type="checkbox"/> P.O. BOX C LIVERPOOL, NY 13088 (315) 451 1551	<input type="checkbox"/> 4555 MILES AVENUE ST LOUIS MO 63113 (314) 771 5255
<input type="checkbox"/> P.O. BOX 7540A CHICAGO IL 60680 (312) 247 7700	<input type="checkbox"/> 950 BRIDGEPORT AVENUE MILFORD CT 06460 (203) 874 1621	<input type="checkbox"/> P.O. BOX 43 PROY VA 22974 (800) 973 6246
<input type="checkbox"/> P.O. BOX 71167 GREENSBORO, NC 27420 (919) 775 8421	<input type="checkbox"/> 7201 W BRADLEY ROAD MILWAUKEE WI 53223 (414) 254 1905	<input type="checkbox"/> ONE WILLIAMS CENTER P.O. BOX 130 TULSA OK 74101 (918) 588 2632
<input type="checkbox"/> P.O. BOX 8555 GREENVILLE, SC 29604 (803) 777 6011	<input type="checkbox"/> 401 HARCING STREET NE MINNEAPOLIS MN 55413 (612) 311 4000	<input type="checkbox"/> P.O. BOX 225 YORK PA 17405 (717) 755 1725

DESCRIPTION OF MATERIAL AND SPECIFICATIONS

1. 5 Pcs 1200 lbs W6 x 12 lb x 20 ft HR Structurals A-36 P65-3

2.

3.

CHEMICAL ANALYSIS

	COPPER	MANGANESE	MANG.	IRON	SILICON	ZINC	CHROMIUM	ALUM.		
1.										
2.										
3.										

HEAT NUMBER	CARBON	MANG.	PHOS.	SULPHUR	SILICON	COPPER	NICKEL	CHROMIUM	MOLY.
1. 84905	AS PER ATTACHED MILL CERTS								
2.									
3.									

MECHANICAL PROPERTIES

TENSILE STRENGTH LBS/50 IN	YIELD LBS/50 IN	ELONGATION % IN	REDUCTION AREA %	HARDNESS	BEND TEST	CHAIN SIZE	HARDEN- ABILITY
1.							
2.							
3.							

SPECIAL TESTS

U.S. DEPT. OF COMMERCE

QUANTITY 5 Pcs 7-9-79
 DELIVERED TO ACK
 BY ACK
 DATE 7-9-79

I, the undersigned, being a duly qualified and licensed assayer, have analyzed the material described in the foregoing description and have found that the same conforms to the requirements of the specification and that the material has the chemical composition and mechanical properties as stated in the foregoing description.

I, a Notary Public, do hereby certify that this affidavit was subscribed and sworn to before me by a duly authorized agent of Edgcomb Metals Company.

Signed Notary Public
 For Edgcomb Metals Company

Notary Public
 My commission expires

This certificate is hereby certified to be a true and correct copy of the original as filed in the office of the Notary Public.

NORTHWESTERN STEEL AND WIRE COMPANY

STERLING, ILLINOIS 61081

METALLURGICAL DEPARTMENT - CERTIFIED MILL TEST REPORT

NSW NUMBER	SHIP DATE	B/L NO.	CUSTOMER P.O. NO.	SHIP METHOD	CAR OR TRUCK NUMBERS				
4129	03-19-79	61304	2645A 1-23	TRUCK	REDIEHS 4521	2	3		

SHIP TO
CROWN STEEL SALES INC
3355 W 31ST ST
CHICAGO ILL 60623

SOLD TO
CROWN STEEL SALES INC
3355 W 31ST ST
CHICAGO ILL 60623

We hereby certify that the following data is a true copy from tests performed in our laboratory.
NORTHWESTERN STEEL & WIRE COMPANY

M. B. Middleton, Supv. of Inspection

THE FOLLOWING TESTS CONFORM TO THE REQUIREMENTS OF THE SPECIFICATION LISTED															M. B. Middleton, Engr. of Inspection	
LINE NO.	SECTION	SPEC	LENGTH	PIECES	WEIGHT	HEAT #	YIELD POINT PSI	TENSILE STRENGTH PSI	ELONG % IN 8	BEND TEST	CAR	VA	PHOS	SUL		
1	N 6 X 12	A36-77	40'	42	20160	84905 84905	45600 48200	62900 65300	24.2 25.8	OK OK	23	42	008	024		
865-3																

ANALYST: P. L. C. AND
DATE: 03-22-79

REMARKS:

RECEIVED
03-22-79
2-9-79

☐ 7201 W. Bradley Rd.
Milwaukee, Wis. 53223
414-354-1500

☐ 5151 Wasson Ave.
Detroit, Mich. 48210
313-816-3000

☐ 401 Harding St. N.E.
Minneapolis, Minn. 55413
612-331-4000

☐ 4555 McRee Ave.
St. Louis, Mo. 63110
314-771-5255

☐ 2185 N. Sherman Dr.
Indianapolis, Ind. 4621
317-543-1555

CERTIFICATE OF TESTS

☒ ACTUAL ☐ NOMINAL

REPORT No.

Zack Co of Chicago
4600 W. 12th Place
Chicago, Il. 60650

Date June 15, 197

Purchaser's Order No.	Our Order No.	DESCRIPTION	SPECIFICATION
C865-4	X75173	W6 x 15# x 20 ft HR Struct Beams	
"865-5"	"	W14 x 43# x 20 ft HR Struct Beams	

CHEMICAL COMPOSITION

	Al.	Cu.	Fe.	Si.	Mn.	Mg.	Zn.	Cr.	Ni.	Pb.	Sn.	C	Sul.	PH.	Ti.	Mo
1			AS PER ATTACHED MILL CERTS													
2			"	"	"	"										
3																
4																
5																

TEST RESULTS

Item		Tensile P.S.I.	Yield P.S.I.	Elong %	In.	Red in Area %	Bend Test
1	Ht. No. 84339						
2	Ht. No. 181C737						
3							
4							
5							

QUANTITY ASSUR. NOT VERIFIED
COMPLETED BY Allyn 6-21-79
RELEASED: _____ DATE _____
NOT RELEASED BY _____ DATE _____
RELEASED TO PURCHASE BY _____ DATE _____

Subscribed and sworn to before me this _____ day of _____

RESULTS AS ABOVE CERTIFIED

19

EDGCOMB METALS

Signed

John A. Plante

NORTHWESTERN STEEL AND WIRE COMPANY

STERLING, ILLINOIS 61081

METALLURGICAL DEPARTMENT - CERTIFIED MILL TEST REPORT

NSW NUMBER	SHIP DATE	B/L NO.	CUSTOMER P.O. NO.	SHIP METHOD	SALES MAN
615	11-26-79	60141	H47862-10XG073	TRUCK	RR
				4123	11

EDGCONB METALS COMPANY

2255 W 47TH ST
CHICAGO ILL

60609

EDGCONB METALS COMPANY

P O BOX 7400A
CHICAGO ILLINOIS

60680

We hereby certify that the following data is true copy from tests performed in our laboratory.

M. B. Middleton, President of Northwestern Steel & Wire Company

SECTION	SPEC.	LENGTH	PIECES	WEIGHT	HEAT #	YIELD POINT PSI	TENSILE STRENGTH PSI	ELONG. IN 8"	BEND TEST	CAR	FIN	PHOS	SUL
2 1/2 X 6 X 13	A36-77	60'	11	5900	84889	43300	59900	26.6	OK	23	51	000	02
3 1/2 X 6 X 25	A36-77	60'	7	16500	84850	42200	60000	23.4	OK	14	51	017	04
					84850	42800	62500	28.1	OK				

QUALITY ASSURANCE REVIEW	DATE
COMPLETED BY: <i>H. J. J. J.</i>	DATE
RELEASED BY:	DATE
NOT REQUIRED BY:	DATE
RELEASED TO PURCHASE BY:	DATE

865-4

FOR THE COUNTY OF WINNEBAGO IN THE STATE OF ILLINOIS, DO HEREBY CERTIFY THAT THIS AFFIDAVIT WAS SWORN AND SIGNED TO BEFORE ME BY

REMARKS:

A NOTARY PUBLIC IN AND FOR THE STATE OF ILLINOIS

A DUTY AFFIDAVIT





REPORT OF MECHANICAL
AND CHEMICAL TESTS

103

BETHLEHEM STEEL CORPORATION
METALLURGICAL DEPARTMENT

PAGE 1

PURCHASE ORDER NO. 8377-500831	MAIL ORDER NO. 021-5990-C	SHIPPER'S NO. 104-13136-01/01	SHIPPED FROM BETHLEHEM	DATE 4/12
-----------------------------------	------------------------------	----------------------------------	---------------------------	--------------

SOLD TO

EDGCOMB METALS CO
90X 7400-A
CHICAGO IL 60680

SHIP TO

EDGCOMB METALS CO
2250 W 47TH ST
CHICAGO IL

SPECIFICATION

ASTM A35-75

INSPECTION—TEST REPORTS

10330 3 TEST REPORTS

HEAT NO.	NO. PIECES	DESCRIPTION	LENGTH			WEIGHT	YIELD POINT	TENSILE STRENGTH	IN
			Feet	In.	Fra.				
181C737	4	W14X43	60			10320	42884	64326	4 9
<div style="position: relative; height: 300px;"> 865-5 </div>									

QUALITY ASSURANCE REVIEW
COMPLETED BY: Wesley DATE 6
RELEASED: _____ DATE _____
NOT REQUIRED BY: _____ DATE _____
RELEASED TO PURCHASE BY: _____ DATE _____

HEAT NO.	C	Mn	P	S	Si	Co	Ni	Cr	Mo	V	N	Ti	Z
181C737	.19	.69	.018	.025									

Wesley

103



RELIABLE GALVANIZING
819 West 88th Street Chicago, Illinois 60620
Phone (312) 651-2500



✓ 65-5 1 Pc 14" x 43# x 20' Beams
✓ 65-6 2 Pcs 8" x 31# x 20' "
✓ 65-1 2 " 8" x 13# x 20' "
✓ 65-2 1 Pc 8" x 21# x 20' "
✓ 65-3 5 Pcs 6" x 12# x 20' "
✓ 65-2 1 Pc 8" x 21# x 20' "
✓ 65-4 3 " 6" x 15# x 20' Beams

PIECES OF PART # 5848#

OUR INVOICE # 34265

ORDER # Zack Company # C865

HAVE BEEN GALVANIZED IN ACCORDANCE WITH

PLANT MANAGER

SPECIFICATION A-123

QUALITY ASSURANCE REVIEW	
COMPLETED BY: <u>65</u>	DATE: <u>10-23-79</u>
RELEASED: _____	DATE: _____
NOT REQUIRED BY: _____	DATE: _____
RELEASED TO PURCHASE BY: _____	DATE: _____

Subscribed and sworn to before me on: 10/19/

[Signature]

NOTARY PUBLIC



Commonwealth Edison
La Salle County Nuclear Station
Rural Route #1 Box 2-80
Marseilles, Illinois 61341
815-357-8861

August 20, 1980
QAL #2753

17 to
8 11-80

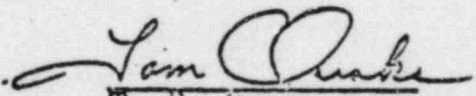
Mr. E. Thompson
Quality Assurance Manager
The Zack Company
4600 W. 12th Place
Chicago, IL 60650

SUBJECT: Commonwealth Edison LaSalle Audit Trend Analysis

Dear Mr. Thompson:

Enclosed, please find Commonwealth Edison's Audit Trend Analysis Report dated August 18, 1980 in which a response is required by September 5, 1980. It is requested that the Zack Company respond to the trends identified within the summary and conclusion, indicating the corrective actions which will be initiated to prevent reoccurrence and the dates these actions will be completed. Your response is to be addressed to T. E. Quaka, Q.A. Supervisor, LaSalle County Station.

Sincerely,

 8/20/80
T. E. Quaka
Q. A. Supervisor
LaSalle County Station

Enclosure

TEQ/ccc

cc: W. J. Shewski/G. F. Marcus (w/encl.)
Christine Zack DeZutel (w/encl.)
B. B. Stephenson (w/encl.)
L. J. Burke (w/encl.)
W. Donaldson (w/encl.)
T. E. Quaka/Q. A. File

Surveillance Date August 18, 1980

File No J-2590.22

LASALLE Q.A. SURVEILLANCE REPORT NO. 80-402

Contractor/Organization Observed: The Zack Company Category: (9)

Audit Trend Analysis

SUMMARY:

On May 19, 1980, a trend analysis was performed by site Quality Assurance on Commonwealth Edison audit's of Zack Company between the period of January 12, 1979 and May 17, 1980 (See Surveillance Report #80-231 Memo To File). During this time frame, a total of 12 audits resulted in 32 findings and 13 observations. As a result of that review, the following areas were identified as possible trends.

- 1) Zack's failure to adequately document and/or perform QC inspections.
- 2) Zack's failure to adequately document and control nonconformances and design changes.
- 3) Zack's failure to adequately address and perform all required audit's/subcontractor surveillances.
- 4) Zack's failure to adequately qualify and certify both auditors or inspection personnel.

At that time, Zack Company had just hired a new Q.A. Manager, a new site Q.C. Manager and four(4) new inspectors for LaSalle, who were in the process of revising an extensive number of work procedures. It was hoped that these procedural revisions would eliminate misunderstandings and help clarify to what extent required inspections were to be performed.

Since that time, Zack has had approximately two months to implement these procedures, as well as, train the new inspectors. On August 15, 1980, Commonwealth Edison finished two extensive audits covering Zack's Design Control and QC Inspections. The results of these audits were less than satisfactory and resulted in a "stop work" order being issued by Station Construction on August 6, 1980.

Discussion: In order to group the deficiencies so a meaningful review could be made, nine categories were established which had the following number of deficiencies in each:

<u>NO.</u>	<u>AREA OF CONCERN</u>	<u>FINDINGS</u>	<u>OBSERVATIONS</u>
1.	Design Control	5	---
2.	Procurement/Receiving	3	1
3.	Document Control	4	2
4.	Welding	4	2
5.	Inspections	7	3
6.	Nonconformances	6	2
7.	Audits	6	0
8.	Personnel Qualifications	5	1
9.	Calibration	1	1
Total:		<u>41</u>	<u>17</u>

Below is a detailed list of deficiencies found during both the original trend analysis and the subsequent two special audits performed on Zack Company:

<u>Audit Number</u>	<u>Results</u>
✓ 1-80-49 (Design) Report Date: 8/15/80	<p>(1) <u>Finding #1:</u> Zack Company failed to received prior approval for design alterations.</p> <p>(1) <u>Finding #2:</u> Zack Company failed to document review of all drawing changes as required.</p> <p>(3) <u>Finding #3:</u> Zack Company failed to maintain an adequate document control system for drawing and procedures.</p>
✓ 1-80-43 (QC Inspections) Report Date: 8/15/80	<p>(8) <u>Finding #1:</u> Zack auditor and Q.C. Inspector qualifications were found deficient.</p> <p>(6) <u>Finding #2:</u> A) Nonconforming items were found not being adequately segregated to prevent use. B) Nonconforming items were not being identified on Zack's final Inspection Reports. C) Zack's Nonconformance system failed to adequately control the number of nonconformances written and dispositioned.</p> <p>(9) <u>Finding #3:</u> Zack failed to maintain suitable tool histroy calibration cards.</p> <p>(5) <u>Finding #4:</u> Final Inspections being performed by Zack Q.C. were being inadequately completed for the following:</p> <p style="margin-left: 400px;">A) Hangers</p> <p style="margin-left: 400px;">B) Duct</p> <p style="margin-left: 400px;">C) Equipment Installations</p> <p style="margin-left: 400px;">D) Storage</p> <p>(2) <u>Finding #5:</u> A) Zack failed to sufficiently document their weld rod receiving. B) Zack failed to follow their daily issuance requirements for weld rod. C) Zack failed to adequately control welding materials in the field.</p>

Audit Number

Results

✓* 1-80-48
(con'd)

- (4) Finding #6: A) Zack failed to document welder identification. B) Zack failed to sufficiently review welder qualifications.
- (5) Observation #1: Zack failed to make provisions for subcontractor's work to be "final" inspected
- (3) Observation #2: Zack failed to adequately maintain an inspection status program.
- (6) Observation #3: Zack failed to regularly review the status and adequacy of the QA program.
- (5) Observation #4: Three (3) CECOs surveillances remain open pending Zack's corrective action.

✓* 1-80-19
Report Date:
4-10-80

- (5) Finding #1: The Zack Company has not adequately implemented the provisions necessary for assuring cleanliness of installed duct work.
- (6) Finding #2: Zack failed to implement a system to remove all hold tags from equipment prior to installation.
- (5) Finding #3: Zack has failed to implement procedure necessary to assure acceptable installation of Zack and CECO furnished equipment.
- (2) Finding #4: The site procedure for receiving Zack furnished material is inadequate.

✓* 1-80-16
Corp. Office
Report Date:
4-7-80

- (7) Finding #1: Zack's Corporate Management failed review the Q.A. program at least annually.
- (8) Finding #2: Zack failed to meet inspector certification levels necessary to perform inspection.
- (8) Finding #3: Zack lacked evidence that the audit qualification program had been implemented.
- (7) Finding #4: Zack has failed to implement a system of planned and periodic audits.
- (3) Finding #5: Zack did not submit their revised organizational chart to CECO Corporate Q.A. for review.
- (7) Finding #6: Zack Audits contained insufficient evidence to support determinations made on the audited items.

✓* 1-80-6
Report Date:
2-13-80

- (3) Finding #1: Zack failed to maintain the latest welding procedure in the field.
- (1) Finding #2: During the installation of seismic hangers, Zack failed to follow approved instructions, procedures, or drawings.

<u>Audit Number</u>	<u>Results</u>
1-80-1D Report Date: 2-7-80	(8) <u>Finding #1</u> : Zack QCP lacked the detailed methods for meeting the requirements of ANSI N45.2.6 (3) <u>Observation #1</u> : Zack has failed to meet certification for a level II according to ANSI Guidelines.
* 1-79-97 Report Date: 12-12-79	(5) <u>Finding #1</u> : Zack has failed to establish a complete comprehensive final inspection procedure. (5) <u>Observation #1</u> : Zack inspections were not complete because the Inspection forms failed to include provisions to identify which procedures were used to accomplish the work.
✓ 1-79-77	No Findings/No Observations
* 1-79-70 Report Date: 10/8/79	(8) <u>Finding #1</u> : Zack has failed to perform training sessions on the Q.A. Manual and has not documented results of examinations. (5) <u>Observation #1</u> : Zack was unable to provide documentation of evaluation of hoisting and rigging equipment.
* 1-79-60 Report Date: 10-15-79	(2) <u>Finding #1</u> : Zack has failed to properly document their receipt inspection of equipment received from CECO. (5) <u>Finding #2</u> : Zack has failed to document deficiencies and their resolutions for storage area inspections. (5) <u>Observation #1</u> : The Zack Company does not document that special storage requirements are being complied with. (5) <u>Observation #2</u> : Zack has failed to establish acceptance criteria for inspection of rigging and handling equipment.
* 1-79-50 Report Date: 8/6/79	(3) <u>Finding #1</u> : Procedures used in testing were not controlled and contained missing pages. Design drawings did not contain revision numbers making verification of current drawing for testing impossible. (8) <u>Finding #2</u> : Zack has failed to establish and maintain Qualification Records of personnel. (7) <u>Finding #3</u> : Audits were not performed on the HVAC System according to Zack Q.A. Manual (3) <u>Observation #1</u> : Revised drawings were transmitted to the site and were in use without being reviewed and accepted. (5) <u>Observation #2</u> : Zack has failed to correctly identify each welders work.

<u>Audit Number</u>	<u>Remarks</u>
✓* 1-79-50 (Con'd)	(9) <u>Observation #3:</u> Failure to establish and maintain a tool history card of calibration frequency.
	(4) <u>Observation #4:</u> Test reports of welder qualifications were not being reviewed.
	(4) <u>Observation #5:</u> Failure to maintain welding material issuance log.
✓* 1-79-40 Report Date: 6-1-79	(1) <u>Finding #1:</u> Zack failed to generate control measures for field changes from the installation drawings.
	(5) <u>Finding #2:</u> Zack failed to properly inspect installed work which resulted in acceptance of deficient work.
	(4) <u>Finding #3:</u> Zack failed to maintain a qualified procedure in accordance with AWS Welding Code.
✓* 1-79-27 Report Date: 5-10-79	(5) <u>Finding #1:</u> The field Q.C. inspector failed to conduct checklist inspections of material when removed from storage.
	(6) <u>Finding #2:</u> Zack failed to control non-conforming material until corrective action was completed.
	(4) <u>Finding #3:</u> Welders Qualification results were not reviewed properly.
	(6) <u>Finding #4:</u> Zack failed to receive approval for repair work performed on CECO furnished equipment.
	(5) <u>Observation #1:</u> Zack discontinued the use of the Q.C. weekly inspection report.
✓* 1-79-2 Report Date: 2-20-79	(2) <u>Finding #1:</u> Zack Company failed to maintain a copy of the open purchase order on-site for verification of conformance during receipt inspection.
	(6) <u>Finding #2:</u> Zack failed to control nonconforming material until corrective action was completed
	(6) <u>Finding #3:</u> Zack's Field Superintendent failed to sign the "corrective action complete" on completed NCR's.
	(7) <u>Finding #4:</u> Zack's Q.C. Manager failed to perform an internal audit on sections 10-15 of Zack's Q.A. Manual in 1978.
	(7) <u>Finding #5:</u> Zack failed to assure timely close-out of site audits.
	(6) <u>Observation #1:</u> Copies of NCR's sent off site for the project managers signature have not been kept on file.
	(2) <u>Observation #2:</u> Shipping-Receiving documents were missing from shipment package.

Conclusions:

Due to the large number of deficiencies found during this time frame and the possibility of these trends reoccurring, the Zack Company is requested to respond to this surveillance concerning these four areas of trends by September 5, 1980. Zack's response should specifically state all corrective measures taken to date on these areas to prevent the likelihood of future problems reoccurring. This response should be addressed to T. E. Quaka, Q.A. Supervisor, LaSalle County Station.

Reported by: Bruce A. [Signature] Date: 8-19-

Approved by: [Signature] Date: 8/20/80

FU Action Verified: _____ Date: _____
Q.A. Eng./Insp.

FU Action Approved: _____ Date: _____
Q.A. Supervisor

cc: W. J. Shewski/C. F. Marcus
L. J. Burke
Contractor
T. E. Quaka/Q. A. File

7807.

REG. JOI. CONTRACT NO.

P. O. DATE

PURCHASE ORDER NO.

5/23/80

SHIPPING NO.

MILL ORDER NO.

INVOICE NO.

Ln5284

6,28,80

SH62446

107-30552

VEHICLE
IDENTITY

EJE 33309

VENDOR SOLD TO

SOUTH WORKS
CHICAGO, ILL. 60617

CHICAGO WAREHOUSE
UNITED STATES STEEL SUPPLY DIV
UNITED STATES STEEL CORP
P O BOX 7310
CHICAGO ILL 60680

UNITED STATES STEEL SUPPLY DIV
UNITED STATES STEEL CORP
13535 SOUTH TURKENCE AVE
CHICAGO ILL 60633

SHIP
TO

BEING DULY SHOWN ACCORD
TO LAW, DEPOSES AND SAY
THAT THE CHEMICAL ANALY
AND/OR TEST RESULTS SHO
IN THIS REPORT ARE CORR
AS CONTAINED IN THE REC
OF THE COMPANY

D. D. FREESE
CHIEF METALLURGIST
6/28/50

**SPEC.
&
INSPECTION**

PLATE CARBON

ASTM A36-77A ASME SA36-77A WITH S14 BEND TEST SEC II 1978 SUMMER
APPENDIX

WILL RA/SN ALSO RA/LT SHOWN T/R - ANALYSIS - REPORT TEST
RESULTS PER PRODUCT SPECN CAPTION

STATE OF ILLINOIS
COUNTY OF COOK
SUBSCRIBED AND SHOWN TO BEFORE
THIS 15 DAY OF July 1900

NOTARY PUBLIC
MY COMMISSION EXPIRES

[illegible]



CUSTOM METAL FABRICATION

April 16, 1981

TO: THE ZACK COMPANY'S SUPPLIERS/VENDORS/MANUFACTURERS OF
MATERIAL USED FOR NUCLEAR POWER STATION PROJECTS.

FEDERAL REGULATION 10 CFR, PART 21 -

"REPORTING OF DEFECTS AND NONCOMPLIANCE" APPLIES TO WORK
DESCRIBED IN THIS PURCHASE ORDER/SUB-CONTRACT AGREEMENT.

FEDERAL REGULATION 10 CFR 21 IS NOT APPLICABLE TO WORK
IN PROCESS - ONLY TO COMPLETED WORK WHICH HAS BEEN ACCEPT-
ED BY THE PURCHASER. THE FOLLOWING REQUIREMENTS ARE BASED
ON THE ASSUMPTION THAT THE SUPPLIER/VENDOR HAS DISCOVERED
A POTENTIAL DEFECT SUBSEQUENT TO ACCEPTANCE OF THE WORK.

1. SUPPLIER/VENDOR SHALL NOTIFY THE ZACK COMPANY
IN WRITING WITHIN THIRTY (30) DAYS AFTER NOTI-
FICATION OF AWARD WHO SHALL HAVE THE RESPONSIBI-
LITY WITHIN HIS ORGANIZATION FOR IMPLEMENTING
THE REQUIREMENTS OF 10 CFR 21.
2. SUPPLIER/VENDOR SHALL, PRIOR TO THE START OF
WORK, DEVELOP PROCEDURES FOR IMPLEMENTATION OF
THESE REQUIREMENTS. SUCH PROCEDURES SHALL EN-
SURE THAT THE RESPONSIBLE INDIVIDUAL DESIGNAT-
-ED PURSUANT TO "1" ABOVE RECEIVES INFORMATION
OF POSSIBLE DEVIATIONS WITHIN THE MEANING OF
10 CFR 21 AND PROMPTLY REFERS THAT INFORMATION
TO THE ZACK COMPANY IF, IN HIS OPINION, SUBSE-
QUENT EVALUATION MAY RESULT IN A DETERMINATION
THAT A REPORTABLE DEFECT OR NONCOMPLIANCE EXISTS.
3. REFERRALS TO THE ZACK COMPANY WILL BE EVALUATED
JOINTLY BY THE ZACK COMPANY AND THE SUPPLIER/
VENDOR. THEY WILL BE REPORTED TO THE NUCLEAR
REGULATORY COMMISSION (NRC) BY THE ZACK COMPANY
IF THEY ARE DETERMINED TO BE REPORTABLE DEFECTS
WITHIN THE MEANING OF 10 CFR 21. SUCH REPORTS
TO THE NRC SHALL BE MADE WITHIN THE TIMES PRE-
SCRIBED BY 10 CFR 21, AND THE ZACK COMPANY SHALL
PROVIDE THE SUPPLIER/VENDOR WITH WRITTEN EVIDENCE

THAT SUCH REPORTS HAVE BEEN MADE.

4. SUPPLIER/VENDOR MAY REPORT INDEPENDENTLY TO THE NRC IF IT HAS REASON TO BELIEVE THAT THE ZACK COMPANY MAY NOT FILE AN APPROPRIATE REPORT IN TIME TO COMPLY WITH THE REQUIREMENTS OF 10 CFR 21 OR IF SUPPLIER/VENDOR DISAGREES WITH THE ZACK COMPANY EVALUATION THAT NO REPORTABLE DEFECT EXISTS.
5. IF SUPPLIER/VENDOR DECIDES TO FILE AN INDEPENDENT REPORT, PRIOR NOTICE (VERBAL OR WRITTEN) SHALL BE GIVEN TO THE ZACK COMPANY, AND A COPY OF THE REPORT SHALL BE TRANSMITTED TO THE ZACK COMPANY.
6. SUPPLIER/VENDOR SHALL REQUIRE PROVISIONS SUBSTANTIALLY SIMILAR TO THOSE SET FORTH IN THIS SECTION TO BE INCLUDED AT ALL APPROPRIATE LEVELS OF PROCUREMENT IN CONNECTION WITH THIS PURCHASE ORDER.

IT IS THE INTENT OF THIS CONTRACT THAT THE REQUIREMENTS OF 10 CFR 21 SHALL BE MET BY THE ZACK COMPANY AND ITS SUPPLIERS SO THAT THE STATUTORY RESPONSIBILITIES OF EACH PARTY ARE PRESERVED, A DETERMINATION OF DEFECTS IS MADE, AND THE REPORTING OF DEFECTS TO THE NRC IS ACCOMPLISHED EFFECTIVELY, EFFICIENTLY, AND IN A MANNER WHICH MINIMIZES SUPPLICATION, CONFUSION AND MISINFORMATION.



CUSTOM METAL FABRICATION

April 16, 1981

TO: Zack Company Personnel

RE: Purchase Orders/Sub-Contracts for
Nuclear Power Station Projects

All Purchase Orders and/or Sub-Contracts issued for material, equipment, services, etc., for our Nuclear Power Station projects will have the following statement included as part of the order.

"Provisions of Zack Company letter, dated December 19, 1978, in regards to Federal regulation 10 CFR, Part 21, are included as an integral part of this Purchase Order/Sub-Contract".


JOSEPH A. DE ZUTEL,
EXECUTIVE VICE-PRESIDENT

JCDZ/art

Surveillance Date: October 9, 1981

File No. J-2590.26

LASALLE Q.A. SURVEILLANCE REPORT NO. 81-661

Contractor/Organization Observed: Zack Company

81 OCT 30 All: 14 Category: (1,2,3,5)

Item Observed:

On October 9, 1981, a surveillance was performed at Zack's Corporate Office to evaluate the steps taken to date concerning Zack's notification of a possible 10CFR 50.55 (e) relating to documentation discrepancies. Upon arrival, Mr. D. E. Calkins, Zack's Manager of Quality Assurance presented an interim report dated October 9, 1981 (See Attached), on Zack's review so far. This surveillance is based on a review of Zack's activities in progress and the above report dated 10-9-81.

Zack is currently re-reviewing all purchase orders and associated documentation. This documentation is being reviewed in detail, specifically for missing certs, missing signatures, any alterations, proper physicals and chemicals and compliance with purchase order and specification requirements. A log is being maintained on each purchase order, showing results of this review and any corrective action required. For certs that are missing, found deficient or appear to have been altered, Zack is notifying the Supplier and requesting new certifications. These conversations are followed up by letters, to hopefully assure a response. To date, numerous revised certs have been received, but many more are required.

The personnel Zack has acquired to perform this indepth review were found to be adequately qualified and properly trained. The group leader was found to be a Consumer Power employee with 15 years of documentation experience. Three Quan-tech personnel were also hired to assist the Group Leader. Finally, two additional Zack personnel were brought in to be trained and to eventually take over the documentation review once this initial evaluation is complete.

During this initial re-review, all necessary standards and specifications were found being used. Some questions did exist concerning LaSalle's Specification due to vagueness in actual documentation requirements. These questions will be addressed in Zack's Final Report scheduled for completion on October 26, 1981.

The following information was checked during this surveillance to assure the quality of Zack's review. All comments and questions raised by Zack were being entered in their Master Log as required. Some of the comments found by Zack may not be concerns for LaSalle Start-Up of Unit #1 based on my understanding of Specification J-2590 requirements. The following Certifications were reviewed:

A) Certs containing clerical errors and missing signatures:

- P.O. #624 - Inland Steel Co. (Coils) P.O. required certifications; however, certs failed to identify which year of ASTM A527 was used.
- P.O. #831 - U.S. Steel Supply (HR Bars) P.O. required certifications, but the Northwestern Steel Cert failed to identify "ASTM" A-36. The C. of C. from U.S. Steel Supply did however show heat # and ASTM-A36.
- P.O. #947 - National Metal Fabricators (Angle rings) P.O. required Certs. Some of the heats received did not state "ASTM" only A36-77. Other heats failed to identify either ASTM or A36 designation.
- P.O. #1094 Edge-comb metals (Plate) P.O. required certs. The actual CMTR was missing a legible signature. The cover sheet was however signed and acceptable.

B) Missing Certifications

- P.O. #508 - P.O. was written for A-325 bolts. Certifications were required, however, only a Cert of Compliance was received which failed to reference "ASTM".
- P.O. #572 - No certs were available, could not be located.
- P.O. #586 - P.O. was for duct sealant and required a Product Spec. sheet which was received. Zack is now requesting certs for the shipment. LaSalle spec is not clear on if certs are required.
- P.O. #565 - Brock Tool Co. (Phillips Redhead Wedge anchor) letter certification only, no actual CMTR's received. P.O. required certs.
- P.O. #4105 Key Crest Inc. (Nuts & Bolts) P.O. required certs, however, only C of Compliance received.

C) Altered reports

- P.O. #914 - P.O. required certs, however, the CMTR's received contained an ASTM date which had a different type setting.
- P.O. #947 - P.O. required certs. One CMTR was of poor quality. As a result, the heat # was highlighted by someone. It should be noted that there was another acceptable heat # shown on the CMTR.

D) Chemical and physical results not per specification

- P.O. #826 - Calumet Steel (HR Angle) P.O. required ASTM A-36 steel, which was received. Although, LaSalle's Spec. for this type of steel required ASTM A575 Grade M-1020.
- P.O. #630 - Reliable Galvanizing (HR Angle) P.O. required A36 which was received, however, LaSalle required ASTM A575 Grade M-1020.

D) Con't: 2

- P.O. #1094 - Edge-comb Metals (Plate Steel) P.O. required ASTM- A36, however, LaSalle Spec. required ASTM-A2 Grade A.
- P.O. #1102 - Edge-comb Metals (Plate) Same as P.O. #1094.

Based on these results, Zack's review appears sufficient to identify any inconsistencies within Zack's procurement documentation. Various Spec. deviations have been identified which should have been accepted by Commonwealth Edison Engineering prior to use. These will still need to be resolved. Sargent & Lundy will also be contacted to clarify actual record requirements for certain materials. Pending Zack's submittal of their Final Report on 10-26-81, disposition from Project Engineering and Zack's success in obtaining revised certs, no additional problems can be foreseen. Site QA will review the records to substantiate acceptable disposition of identified concerns at a later date.

Corrective Action Taken:

N/A

Follow Up Action:

N/A

Reported by: Paul M. [Signature] Date: 10/11Approved by: RAB [Signature] Date: 10/11FU Action Verified: N/A [Signature] Date: —
QA Eng./Insp.FU Action Approved: N/A RAB [Signature] Date: 10/11
QA Supervisor

cc: R. J. Shewski/G. F. Marcus
 L. J. Burke/W. H. Donaldson
 T. E. Quaka/Q. A. File
 Contractor

1157-

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



CUSTOM METAL FABRICATION

October 29, 1981

TO: ALL ZACK COMPANY COGNIZANT PERSONNEL

FROM: M.L. Skates, L.Q.A.E.

SUBJECT: Quality Assurance Document Control

ALL Quality Assurance Documentation to and from "Suppliers" of materials, shall be transmitted to the Document Control Clerk for indexing prior to issuance.

The following documents shall include but not be limited to;

- Purchase Requisitions
- Purchase Orders
- Correspondence
- QMR
- C of C
- etc.

THE ZACK COMPANY

M. L. Skates

M.L. Skates, L.Q.A.E.

Quality Assurance Department/Chicago



CUSTOM METAL FABRICATION

November 4, 1981

To: All Cognizant Personnel
From: C. L. Eichstaedt, Jr.
Re: Purchase Requisitions and Purchase Orders for
Nuclear Projects and Commercial Operations.

Effective today, November 4, 1981 the following shall be adhered:

1. All purchase orders for Chicago Commercial operations (specific to a job, not stock) shall be issued by purchasing dept. Five (5) digit numbers shall be used beginning with C-17428. All P.O.'s shall be accountable.
2. For Nuclear projects and shop stock - ALL purchase orders shall be issued by purchasing dept./Quality Assurance dept. at CORPORATE headquarters.
 - A. Site requested
 1. Site to transmit purchase requisition for office supplies, tools, etc. (not part of project) to Chicago.
 2. Site to transmit fabrication ticket (Traveler) to Chicago for requisition of project incorporated material.
 3. All requisitions/travelers transmitted to corporate project management.
 4. Corporate project management to issue purchase requisition to purchasing dept./QA dept.
 5. Purchasing dept./QA dept. to generate and issue order to supplier/vendor.

NOTE: If "Time-is-of-the-essence", site to telephone and/or Qwip requisition to corporate project management. Corporate project management thru purchasing dept./QA dept. will verbally issue purchase number to site. Site shall then issue verbal purchase order number to supplier/vendor. Site is still responsible for transmitting written requisition.

Continued

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tion to corporate project management. Confirming written purchase order shall not be issued without written requisition/traveler within 72 hours.

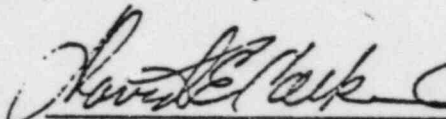
B. Plant Generated (specific project and stock)

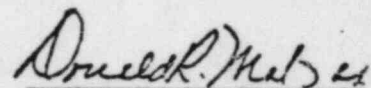
1. All Requisitions shall be transmitted thru corporate project management.
2. Corporate project management shall generate requisition and transmit to purchasing dept./QA dept.
3. Purchasing dept./QA dept. shall generate and issue purchase order to supplier/vendor.

C. All purchase orders for nuclear projects shall be four (4) digit numbers commencing with C-1422.

The above directive shall be in effect until permanent changes/procedures are developed and implemented.


Carl L. Eichstaedt, Jr.


David Calkins


Donald R. Malzahn

Sites to return all unused purchase orders and P.O. logs to corporate headquarters.

Note: Distribution of purchase orders is as follows:

- A. Two (2) copies (white and goldenrod) to supplier/vendor.
- B. One (1) copy (yellow) to corporate QA dept. file.
- C. One (1) copy (green) to corporate accounting dept. file.
- D. One (1) copy (Xerox) to purchase requisition initiator.
- E. One (1) copy (Xerox) to corporate engineering dept. file.
- F. One (1) copy (Xerox) to corporate purchasing dept. file.



Ⓟ

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

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- DEDICATED TO CLEANING AND CUSTOMIZING THE AIR OF THE WORLD •

Done

Typed and

date 11-11-81

136

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 data 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 door for the two ben's

T. Yes
have typed and post
then

Nov. 11, 1981 •

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 DATA WILL BE MADE BY DOCUMENTATION PERSONNEL.
4. FILE MATERIAL IS AVAILABLE TO ZACK OR ZACK RELATED PERSONNEL INVOLVED IN RELATED RESEARCH.


DOCUMENT CONTROL SUPERVISOR

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



CUSTOM METAL FABRICATION

MEETING SCHEDULED FOR:

FRIDAY, NOV. 13, 1981

10:00 A.M. -CONFERENCE ROOM-

You are requested to attend the above scheduled meeting to
be held in the "Conference Room" at 10:00 a.m. 11/13/81

SUBJECT: Bechtel Audit of November 18, 19, 20th 1981 at the
Chicago facilities.

David E. Calkins,
Manager Quality Assurance

ATTENDEES: C.Z. DeZutel
N. Rosa
B. Prim
G. Kollaritsch
J. Engh
R. Greune
T. Howard
D. Henigan
H. McGrane
R. Basiaga
M. Skates

1. REPORT NUMBER Q-111

2. DATE 9-22-81

3. ITEM / PART NUMBER C-4406

4. AREA / BUILDING PLANT 1

5. DRAWING NUMBER 4406

6. OWNER FURNISHED MATERIAL OR EQUIPMENT ☐ YES ☐ NO

7. Q. LISTED ☐ YES ☐ NO

8. DESCRIPTION OF NON CONFORMANCE: 20,000, 3/8 x 1. Hex Head bolts are not marked with a raised or depressed mark on the head of the bolts as stated in ASTM-A-307-78 Supplier: Delta Screw Co.

TAG NO. 04031, 13014

9. REPORTED BY James Michalik

10. RECOMMENDED CORRECTIVE ACTION: RETURN TO Vendor For proper material or use as non-nuclear material

11. QC INSPECTOR / DATE James Michalik 9-22-81

12. QC MANAGER / DATE C. Richard 9-22-81

13. PROJECT MGR. / PLANT SUPT. / DATE J. R. Rouse 9-22-81

14. CORRECTIVE ACTION TAKEN: Material being returned to Vendor

15. PROJECT ENGINEER / DATE Carl E. Eickhoff 12/22/81

16. PROJECT MGR. / PLANT SUPT. / DATE Carl E. Eickhoff 12/22/81

17. VERIFICATION OF CORRECTIVE ACTION TAKEN:

18. ACCEPTED ☐ REJECTED ☐

19. QC INSPECTOR / DATE

20. MANAGER / DATE

REPORT NUMBER Q-111

2. DATE 9-22-81

C-4406
3. ITEM / PART NUMBER

PLANT-1
4. AREA / BUILDING

4406
5. DRAWING NUMBER

6. OWNER FURNISHED MATERIAL OR EQUIPMENT ☐ YES ☐ NO

7. O. LISTED ☐ YES ☐ NO

8. DESCRIPTION OF NON CONFORMANCE: 20,000, 3/8x1 Hex Head bolts
are not marked with a raised or depressed mark on the
head of the bolts as stated in ASTM: A-307-78
Supplier: Delta Screw Co.

TAG NO. 04031, 13014
3m 9-23-81

9. REPORTED BY James Michalik

10. RECOMMENDED CORRECTIVE ACTION: Return To Vendor For proper material
or use as non-nuclear material

James Michalik 9-22-81
11. QC INSPECTOR / DATE

Richard 9-22-81
12. QC MANAGER / DATE

R. Rose 9-22-81
13. PROJECT MGR. / PLANT SUPT. / DATE

14. CORRECTIVE ACTION TAKEN: To BE used as
non-nuclear product.

Andy Wanning 4/14/82
15. PROJECT ENGINEER / DATE

R. Rose 4-14-82
16. PROJECT MGR. / PLANT SUPT. / DATE

17. VERIFICATION OF CORRECTIVE ACTION TAKEN: SEE Block #14

18. ACCEPTED ☒ REJECTED ☐

Richard 4-14-82
19. QC INSPECTOR / DATE

Richard 4-14-82
20. MANAGER / DATE



CUSTOM METAL FABRICATION

1-25-82

Please Rate The Following Employee

Albert T. Howard

	Excellent	Good	Average	Fair
Job Proficiency				
Accuracy		✓		
Timeliness	✓			
Thoroughness		✓		
Follow Through		✓		
Attendance	✓			
Tardiness	✓			
Courtesy		✓		
Professionalism			✓	
Ambition		✓	✓	

Comments: Mr. Howard has shown a good ability to take command of the doc. personnel and provide positive direction and to obtain required results.

Signed: A. T. Howard

Date: 1-25-82



CUSTOM METAL FABRICATION

DATE 1-25-82

NAME Albert T. Howard

POSITION Document Control Supervisor

UNION _____ NON-UNION ✓

STARTING DATE Oct 19, 1981

PRESENT COMPENSATION 461.53/wk

CHANGE \$510/wk (12.75/hr)

EFFECTIVE DATE 2/1/82

AUTHORIZED BY Dec 1/25/82

NEXT REVIEW DATE Aug 82

SPECIAL CIRCUMSTANCES: Merit increase for assuming
supervisory responsibility and good performance
at directing more experienced personnel.



CUSTOM METAL FABRICATION

DATE 2-11-82

NAME Albert T. Hivard

POSITION Doc. Control Supervisor

UNION _____ NON UNION ☒

STARTING DATE 10-19-81

PRESENT COMPENSATION 24,000 per year = 461.54/wk

CHANGE To hourly rate from salary of 10.68 per hr.

EFFECTIVE DATE 2/1/82

AUTHORIZED BY CD2 2-11-82

NEXT REVIEW DATE August 1982

SPECIAL CIRCUMSTANCES:

Terry Howard

4/13/82

To the best of my memory your pay rate change occurred at the time of my transition from Quality Assurance Manager to that of Project Manager (i.e. end of January 82). The rate sheet originally submitted by myself was to convert your salary to an hourly rate and was subsequently modified by "Upper Management" based upon their evaluation of the job function and its corresponding pay rate.

It is my understanding that the subsequent pay rate and revisions for it were to be discussed with you by Melzahn.

Since the initial submittal of a base pay rate change, I have not been involved nor am I cognizant of management's position in this matter.

Walter E. Calkins

P.S. At the time you were originally advised of change to hourly by me no indication was given that that you would change the amount of time it took to do the job.

ILLINOIS

MICHIGAN

FLINT
MICHIGANGARY
INDIANAMIAMI
FLORIDA

THE ZACK CO.

 4600 W. 12TH PLACE
CHICAGO, ILL. 60650

 Telephone:
Bishop 2-3434

 Transmitted #CZC
226

 Date: 12 February 1982

 TO: C&CO

 RE: La Salle

 ATTN: R. Casano

 File # 3300

Gentlemen:

 We are Sending to you (Below)

 of the
following

- | | |
|-------------------------------------|-----------------------|
| <input type="checkbox"/> | Drawings |
| <input type="checkbox"/> | Approved Dwgs. |
| <input type="checkbox"/> | Certified Prints |
| <input type="checkbox"/> | Approved Cert. Prints |
| <input type="checkbox"/> | Specifications |
| <input checked="" type="checkbox"/> | Details |

<u> </u> Herewith	<u>1</u> Copy
<u> </u> Under Separate Cover	<u> </u> Copies

For

- | | |
|-------------------------------------|--|
| <input type="checkbox"/> | Approval |
| <input type="checkbox"/> | Approval & Comment |
| <input type="checkbox"/> | Correction |
| <input type="checkbox"/> | Your files |
| <input type="checkbox"/> | Your files & Distribution |
| <input type="checkbox"/> | Final Approval |
| <input type="checkbox"/> | Release for Production |
| <input type="checkbox"/> | For use on Job |
| <input type="checkbox"/> | Release for immediate Production |
| <input type="checkbox"/> | Your Estimate for <u> </u> work |
| <input checked="" type="checkbox"/> | See Description Below |

 Description Reportable Defect Evaluation - 4th Inspection Report

 Remarks Information of Material Status

Please Acknowledge

 By: Mail Messenger

 Daily return 1 Copy(s) to us

Yours very truly,

THE ZACK CO.

Robert J. Howard



C13 J

CUSTOM METAL FABRICATION

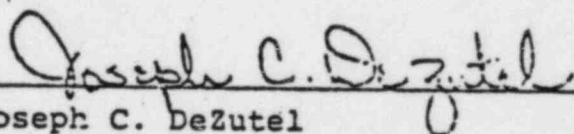
24 February 1982

INTEROFFICE MEMO

To: Zack Company Document Control Department - Chicago
QA/QC - Chicago

Re: Written Reports

Effective this date, any and all written reports to Zack Company clients, customers or suppliers must be reviewed and approved by Corporate Senior Management prior to dispatch.


Joseph C. DeZutel
Executive Vice President

JCDZ/nw

NON CONFORMANCE REPORT

C13

I

REPORT NUMBER L 254

DATE 2/19/82

P.O. C13205 C11072, C12704

3300 LaSalle Site

ITEM / PART NUMBER

4. AREA / BUILDING

N/A

5. DRAWING NUMBER

OWNER FURNISHED MATERIAL OR EQUIPMENT ☐ YES ☒ NO

7. O. LISTED ☐ YES ☐ NO

DESCRIPTION OF NON CONFORMANCE: Blanket order for E6011 Electrode (1/8" ϕ and 3/32" ϕ) has no requirement for any certs and none are on file. (C13205) AND 400# OF 1/8" ϕ AND 400# OF 3/32" ϕ E6011 ELECTRODE ALSO HAVE NO CERTS ON FILE.

9. REPORTED BY *Rf Bruegg*

RECOMMENDED CORRECTIVE ACTION:

N/A
C INSPECTOR / DATE

Rf Bruegg 2-24-82
12. QC MANAGER / DATE

Carl E. Eichler 2/24/82
13. PROJECT MGR. / PLANT SUPT. / DATE

CORRECTIVE ACTION TAKEN: C13205 IS BLANKET ORDER FOR E6011 DING ROD FROM WELDSTAR SHIPPED DIRECTLY TO JOBSITE. ALL CMTR'S ARE KEPT PER HT. NO. AT JOBSITE. C11072 IS E-6011 ROD FROM HOBART WORTH, TYPICAL TR'S AS REQUIRED BY AWS A5.1 ARE ON FILE IN DOCUMENT CASE FOR 1/8", 3/32" TYPICAL CMTR IS NOT ON FILE.

N/A
JECT ENGINEER / DATE

Carl E. Eichler 2/24/82
16. PROJECT MGR. / PLANT SUPT. / DATE

IFICATION OF CORRECTIVE ACTION TAKEN:

INFORMATION ONLY

CEPTED ☐ REJECTED ☐

19. QC INSPECTOR / DATE

20. MANAGER / DATE

L-254

CONTINUATION

14. CORRECTIVE ACTION TAKEN:

C-12204 IS FOR E6011 WEDGING ROD FROM HOBART NORTH. THIS ROD WAS FOR NON-NUCLEAR USE. 5/32" IS NOT USED AT ALL ON NUCLEAR. SINCE ONLY TYPICAL CMTR'S ARE REQUIRED, SUBMIT TO CECD FOR "ACCEPT-AS-IS."

Carl E. Eichstedt 2/24/82

In addition our site personnel have been contacted and will supply us with copies of all certs in their possession. The number of certs available is indeterminate at this time.

Of Baraga 2-26-82

4600 W. 12TH PLACE • CHICAGO (CICERO) ILL. 60650 • 312/242-3434

4401 WESTERN • FLINT MICHIGAN 48506 • 313/736-2040



CUSTOM METAL FABRICATION

CORPORATE ORGANIZATION CHART
(Attachment 1)

PRESIDENT

CHRISTINE
ZACK
DE ZUTEL

EXECUTIVE
VICE
PRESIDENT

J. C. DE ZUTEL

VICE
PRESIDENT
OPERATIONS

D. R. MALZAHN

PROJECT
MANAGER
MIDLAND

D. CALKINS

MANAGER
COMMERCIAL

H. JUNG

MANAGER
MARKETING

J. DE ZUTEL

MANAGER
FINANCE

D. MALZAHN

BRANCH
MANAGER

E. LIPP

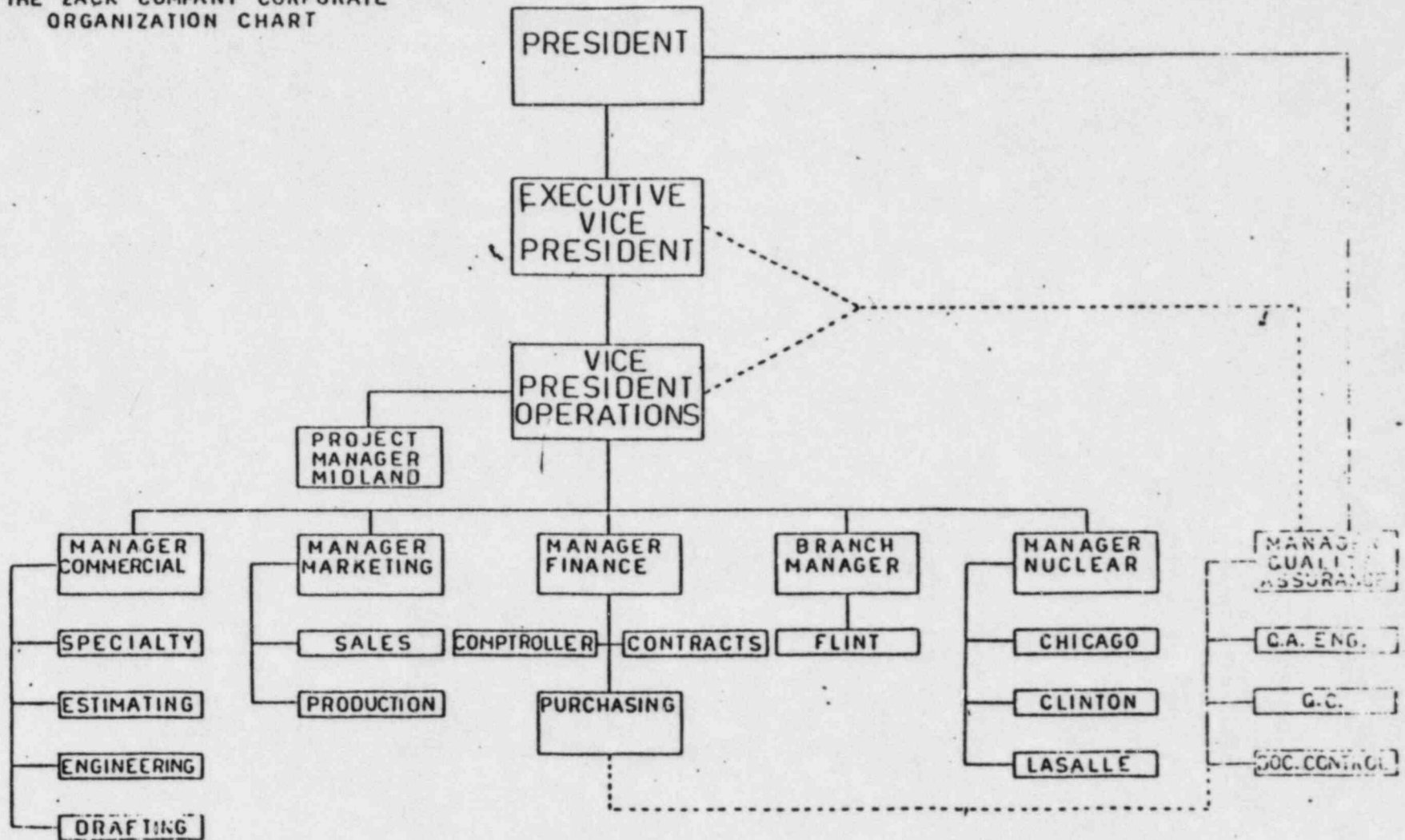
MANAGER
NUCLEAR

C.L. EICHSTAELT

MANAGER
QUALITY
ASSURANCE

M. L. SKAT

THE ZACK COMPANY CORPORATE
ORGANIZATION CHART





CUSTOM METAL FABRICATION

March 1, 1982

Commonwealth Edison Company
R.R. #1 Box 240
Marseilles, IL 62341

Attn: Mr. J. Dierbeck

Re: NCR's Related to Reportable Defect Evaluation Report

Mr. Dierbeck,

Attached are 99 NCR's that have been generated to close out items that are currently included on the reportable defect evaluation list. Items covered by these NCR's are items purchased solely for the LaSalle Project and items purchased for stock and used at LaSalle.

Of the 99 reports, 30 have been closed internally by The Zack Company. Closure of these reports was accomplished through project management review and the surfacing of documents and information made available by project management. On these grounds we determined that it was within the authority of the The Zack Company to close these reports. Xerox copies of the closed reports are included for information. Any comments or additional information you may have concerning the affected items would, of course, be welcome.

The 69 open NCR's are submitted for an accept as is disposition in all cases. These are items for which, at this point in time, it seems unlikely that necessary documentation to correct deficiencies can be obtained. Also in this group are items that are correctly documented but are not included in the LaSalle Tech. Spec.

Closure of the above referenced NCR's will reduce the number of open items on the list to 35. These items are of a clerical nature and we are reasonably certain that necessary documentation can be obtained to correct the deficiencies. NCR's were not written on these remaining items based on this belief.

Although a time frame for completion of all items on the list cannot be established, closure of the enclosed NCR's and continuing effort on the remaining items will certainly bring this matter to a close in a timely manner.

Very truly yours,
The Zack Company

Raymond J. Basinga
Raymond J. Basinga
Q.A. Engineer

Christine Zack Basinga
Zack Senior Management

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

March 1, 1982

CECo. Mr. J. Dierbeck

Page 2

RJB/dm

cc: C. DeZutel
J. DeZutel
M. Skates
Q.A. Files



43 17

CUSTOM METAL FABRICATION

March 18, 1982

To: Detailing/Drafting Dept.
Hourly Non-Manual Personnel

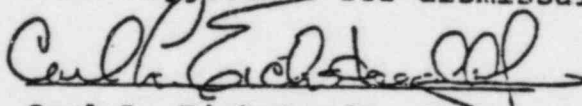
From: C.L. Eichstaedt, Jr.

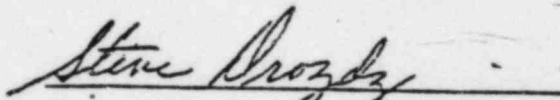
Re: Time Cards/Time Clock

Effective Monday March 22, 1982 a new time clock will be installed in the main first floor office for use of all hourly, non-manual Zack employees. The time cards will be weekly in lieu of daily.

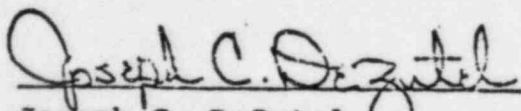
This clock will be used for initial "Check-In", final "Check-Out" as well as Lunch, personal time, school, etc. Company errands will still be on a sign-in/out sheet of Steve Drozd. This is company policy and there will be no deviations.

Each person will be responsible for punching their own time card. Being caught punching someone else's card, will be grounds for dismissal.


Carl L. Eichstaedt, Jr.


Steve Drozd

Concurred:


Joseph C. DeZutel



43 d
CUSTOM METAL FABRICATION

April 8, 1982

A meeting took place this afternoon with Mr. Dennis Albritten in the presence of:

Christine DeZutel	- President
Joseph DeZutel	- Executive Vice President
Donald Malzahn	- Vice President
Martin Skates	- Corporate Q.A. Manager
Ray Basiaga	- Head Q.A. Engineer

Areas of concern of Zack Management and of the employee, Mr. Albritten were discussed.

Specifically, the following two areas were voiced, discussed and ameliorated:

A. Dress Code :

Although the company does not specify a required mode of attire for employees, we do insist upon a neat appearance. We are a professional corporation and, as such, are visited by customers, suppliers, inspectors, etc. Mr. Albritten acknowledges that perhaps on occasion, he has not given this area all the attention required but will correct the situation. (See Employee Policy Booklet under "Company Image").

B. Professional Courtesy

The Zack Company basically functions under the open office layout style. It is, therefore, strongly requested that employees have regard for their fellow employees and limit personal conversations and telephone calls.

Continued

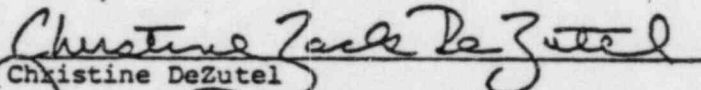
April 8, 1982

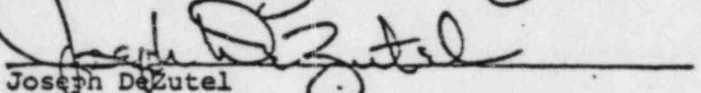
Page 2

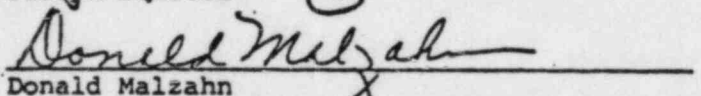
Professional Courtesy - continued

The volume of these interchanges are to be kept down so as not to interfere with the concentration and job function of others. Zack management request that Mr. Albritten monitor his conversations accordingly.

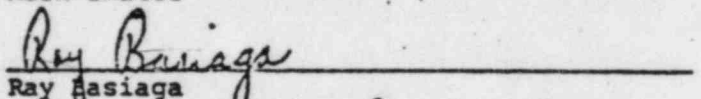
Acknowledge:

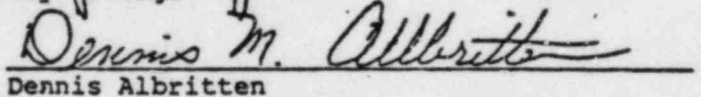

Christine DeZutel


Joseph DeZutel


Donald Malzahn


Mark Skates


Ray Basiaga


Dennis Albritten



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.
2. 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

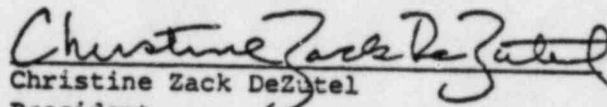
Continued

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 DeZutel
President

CZDZ/nw



4/30

CUSTOM METAL FABRICATION

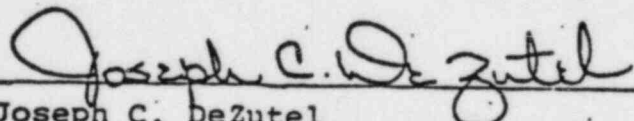
12 April 1982

TO: Chicago Non-Manual/Hourly Personnel Supervisors
FROM: J. C. DeZutel/Executive Vice President
Re: Regular Working Hours/Overtime

Effective immediately, the normal working hours are 8:00 AM to 4:30 PM, with a 1/2 hour lunch break. Any and all exceptions must be approved by myself or Mr. Malzahn.

Also effective immediately, any and all overtime must be requested and submitted in writing to myself or Mr. Malzahn for approval.

There will be no exceptions


Joseph C. DeZutel
Executive Vice President

JCDZ/nw



Consumers
Power
Company

44

B W Margulio
Director of Environmental &
Quality Assurance

General Offices: 1955 West Parnell Road, Jackson, MI 49201 • (517) 788-2060

June 15, 1982

Mr Thomas Devine
Legal Director
Government Accountability Project
PO Box 130
Midland, MI 48640

It has come to my attention that GAP is publically recruiting anyone who has a complaint regarding work activities at the Midland Nuclear Plant. While any group or individual is free to pursue this type of activity, I am concerned that your process may subvert both the effectiveness of the quality assurance program to detect problems, and the obligation of plant workers to bring any problem of which they may become aware to the attention of the quality assurance organization or plant management.

Consumers Power Company, as the Midland licensee, has been acknowledged by its regulatory overseers as having fulfilled its responsibility to identify and report, where appropriate, any problem that was identified at this site. Posted conspicuously throughout the site are notices of two types - one inviting workers to report problems to us, either publically or anonymously, and the other dealing with the mechanism by which to make an allegation to the NRC.

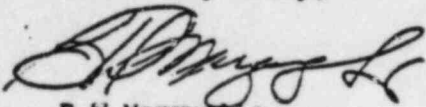
We have an established allegation procedure for use by the Midland Project Quality Assurance Department (MPQAD) which has been exercised on a number of occasions. This procedure can be utilized in either a public or an anonymous mode, and anyone making an allegation is assured that he will be fully protected from any reprisal that might be engendered by the allegation. Further, all allegations are fully investigated and a written report is submitted to the allegator at the conclusion of the investigation. It is also a requirement that any allegation entered into the system will be tracked by the quality assurance program until its final resolution has been achieved.

We respectfully request that any allegations that GAP may have received regarding potential problems at the Midland site be submitted on a timely basis to MPQAD. This should be in accordance with your stated objective to satisfy yourself that this project is producing work that meets the applicable standards. We assure you that every allegation thus made will be given a full investigation and that a written report regarding the findings from this investigation will be transmitted to you and the person making the allegation, if he is known to us. Attached for your use are copies of the MPQAD allegation forms.

As I am sure you are aware, submitting any allegation you may have received to Consumers Power Company in no way precludes your prerogative to further submit it to the NRC or other official bodies if you are not satisfied as to the timeliness and thoroughness of our response. However, by submitting allegations to Consumers Power Company first, and in a timely manner, and allowing us an opportunity to respond to any concerns you may have received, you will have demonstrated your willingness to let the quality assurance program function as it was intended.

We look forward to your response in this matter.

Yours very truly,



B W Marguglio

1. Allegation Serial No _____

2. Who received the allegation? _____
3. When was the allegation received? _____
4. How was the allegation received? ie, telephone, face-to-face, by letter? _____
5. When was the allegation reported to CP Co - QA? _____
6. Name of the allegator: _____
7. Who is allegator's employer and what is the allegator's position? _____
8. Where can the allegator be contacted? _____
9. When will the allegator make next contact? _____
10. Can the allegator's name be used in investigation of allegation? _____
(If Yes, will allegator provide signature to this page _____)
11. Will the allegator permit his name to be used in reports to the NRC? _____
12. Will the allegator provide details of his allegation to the NRC? _____

STANDARD INFORMATION CHECKLIST

Completed By _____

1. Notify the allegator of the procedure for investigating allegations. _____
2. Explain that if the allegation is validated, an NCR will be issued and the allegator will be provided with a copy of the NCR, subsequent documentation and the closed NCR. _____
3. Explain that if required by 10CFR50.55(e) or 10CFR Part 21, the nonconformance will be reported to the NRC. _____
4. Explain that if investigation does not substantiate the allegation of if the allegation is not safety related, it will be dropped by QA at that time and he will be so notified. _____
5. Explain that the allegator will be provided a copy of the final report. _____

Signature of the allegator indicating (i) permission to release his name in internal investigation of the allegation (ii) permission to release his name in reports to NRC if investigation determines that condition is reportable (iii) that Items 1, 2, 3, 4, 5 in the checklist above have been explained and understood.

Dated: _____ Signature: _____

DISTRIBUTION LIMITED TO THOSE
PERSONS IDENTIFIED IN PARAGRAPH 4.1.2



QUALITY ASSURANCE
POWER
Company
QA66-0

ALLEGATION EVALUATION

AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT

1. Allegation Serial No _____

2. Does alleged condition affect a Q-listed system/component/item?

Yes ____ No ____

3. If "No" to 2, above, forward to Midland Project Management Organization or GPMD, as applicable, for further investigation.

4. Does alleged condition actually exist?

Yes ____ No ____

What was found? _____

5. If "No" to 4, above, terminate investigation, enter NA in Blocks 5 through 12, sign Blocks 13 and 14 and distribute.

6. Has the alleged condition previously been documented on a nonconformance-type report?

Yes ____ No ____

7. If "Yes" to 6, above, enter nonconformance-type report identification:

8. If "Yes" to 6, above, does nonconformance-type report adequately describe alleged condition, is corrective action adequate to resolve the alleged condition, and is corrective action progressing adequately?

Yes ____ No ____

9. Describe any actions taken to resolve inadequacies found in 8, above:

10. If "Yes" to 8, above, enter NA in Blocks 11 and 12, sign Blocks 13 and 14 and distribute.

11. Does the alleged condition constitute a nonconforming condition which has not been previously documented?

Yes ____ No ____

12. If "Yes" to 11, above, prepare an NCR and enter the NCR No.

NCR No _____

13. Evaluation Completed By/Date:

14. Evaluation Reviewed by Manager,
MPQA or Section Head, QAE&I/Date:



1. Allegation Serial No _____

Specifics of Allegations

2. What is the alleged condition? _____

3. What is the location of alleged condition? _____

4. What systems, components, items are affected by alleged condition? _____

5. For how long has the alleged condition existed? _____

6. What requirement was violated by alleged condition? _____

7. To whom has this condition been previously reported? _____

8. When was the condition previously reported? _____

9. What actions have been taken to resolve alleged condition and by whom have the actions been taken? _____

10. Is alleged condition covered by an existing nonconformance report? _____

11. Prepared By/Date: _____