



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

FEB 14 1984

Docket Nos.: 50-329 OM, OL
and 50-330 OM, OL

APPLICANT: Consumers Power Company
FACILITY: Midland Plant, Units 1 and 2
SUBJECT: SUMMARY OF OCTOBER 27, 1983 MEETING ON MIDLAND
HEATING, VENTILATION AND AIR CONDITIONING SYSTEMS

On October 27, 1983, NRC staff members from NRR and Region III met with Consumers Power Company, Bechtel and Zack to discuss the design of the Heating, Ventilation and Air Conditioning (HVAC) System for Midland Plant, Units 1 and 2. The purpose of the meeting was to discuss four open items from an NRC design audit held on October 4 - 7, 1983.

Enclosure 1 is a summary of the meeting. Staff conclusions resulting from this audit and the earlier audit of October 4 - 7, 1983 will be provided by a separate report to be issued in early 1984.

Darl Hood
Darl Hood, Project Manager
Licensing Branch No. 4
Division of Licensing

Enclosure:
As stated

cc: See next page

MIDLAND

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- 2 -

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Supplemental page to the Midland UM, OL Service List

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- 3 -

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ENCLOSURE 1

Staff Design Review and Audit of the MidTand HVAC System

On October 27, 1983, the staff from RIII and NRR met with representatives from Consumers Power Company (the applicant) and Bechtel Power Corporation at the Midland Plant site to discuss the design of the Midland HVAC system. A list of meeting attendees is included in Attachment A to this report. The purpose of this meeting was to further discuss four unresolved items from a previous HVAC system design audit held on October 4-7, 1983. The four unresolved items were:

- (1) It was not evident that Bechtel has properly used the design guide for HVAC ductwork to qualify the ductwork when the span between supports exceeded eight feet.
- (2) The seismically supported round HVAC ductwork which are not safety-related that are routed vertically along the containment wall appeared to have duct spans exceeding the eight foot criterion.
- (3) The expansion anchor bolts in the HVAC support baseplates appeared to be the most limiting component in the HVAC structural design. Prying action of the baseplate on the bolts had been ignored according to the design guide for HVAC supports.
- (4) The qualification of the HVAC duct flange bolts (3/8" diameter) had not been properly documented for the applicable loadings.

The resolution of these four items are discussed in the following paragraphs:

1) Use of HVAC Design Guide for Ductwork

The design procedure entitled, "Design Guide for Nuclear Power Plant Seismic Category I Rectangular HVAC Ducts (DRAFT)," dated April 15, 1978, states that the minimum yield strength of the HVAC ductwork material (A526 or A527) should be 36 ksi. The design guide provides an empirical formula for the calculation of the required duct sheet thickness, t , in its Equation 7.3. The equation is as follows:

$$t = 2.5 \left(\frac{E}{f_y} \right)^{\frac{1}{2}} \left(\frac{P}{F_a} \right) \frac{(a)(c)}{(a+c)}$$

where: t = sheet thickness
 E = modulus of elasticity
 f_y = material yield stress
 P = design pressure
 F_a = allowable stress
 a = duct width
 c = stiffener spacing

Furthermore, generic design tables provided in the design guide were based on a material yield stress of 36 ksi. The staff's concern from the earlier audit was that for Midland, the design specification (7220-M-151A) for HVAC installation specifies that the HVAC duct material A526 and A527 be provided with a minimum yield stress of 30 ksi. It should be noted that the ASTM material specification for A526 and A527 does not require a minimum yield strength. Thus, the staff had requested that the applicant demonstrate that, for Midland, the empirical formula had been used with a material yield strength of 30 ksi and that the generic design guide tables had not been used for Midland.

The applicant provided the staff with several randomly selected calculations which used the design guide to calculate the HVAC duct stresses. These calculations were selected from the approximately 170 duct spans which exceeded the eight foot criterion and are listed in Attachment B to this report. The staff noted that the spans for rectangular ducts varied between 8.83 feet and 11.08 feet and a calculation for a circular duct qualified a span of 16 feet. All the calculations used a yield stress of 30 ksi for the duct material. Thus, based on our review of the calculations, the staff concluded that the applicant has used the appropriate yield stress (30 ksi) for the duct material which is in accordance with the Midland design specification (M-151A) and that the generic design guide tables were not used. This item is, therefore, resolved.

2) Review of Calculation for HVAC Duct Inside Containment

During the previous visit, the staff had noted that two large diameter circular ductwork were routed vertically along the inside of the containment wall (forming an inverted U-shape and criss-crossing at the apex of the containment). The staff expressed concern about the structural integrity of the duct and supports where the eight foot span criterion appeared to have been exceeded. The containment spray lines were routed in front of the ductwork and failure of the ductwork or supports could have impacted the containment spray lines.

The HVAC system noted by the staff is known as the dome air mixing system. The maximum diameter of the circular duct is 28 inches. The duct span between supports is 9' - 6".

After the staff's previous visit, the applicant discovered that they could not find the original support calculations for the HVAC dome air mixing system. The applicant did find a copy of the original calculation which had not been formally issued. However, the calculation was based on old (superseded) seismic building response spectra. As a result, the applicant performed new calculations to supersede the original calculations. The calculations were based on the revised seismic response spectra. The new calculations used an SSE peak acceleration of 5.85 g. The calculation verified that the stresses in the ductwork and supports are acceptable. This item is, therefore, resolved.

3) Expansion Anchor Bolts for HVAC Supports

In the procedure, "Design Guide for HVAC Supports (DRAFT)," Calculation No. 3471(Q), it was stated that for expansion anchor bolts, the prying action of the baseplate was to be ignored. This item was identified in an internal audit conducted by the applicant on February 21, 1983 and was considered an unresolved item.

Bechtel explained that the civil/structural criteria of AISC are used for HVAC support design. Expansion anchor bolt capacity is based on manufacturer's data and testing. A safety factor of four or five is added to the bolt allowable to account for slippage. Bechtel does not use ASME Subsection NF for HVAC support design. Many HVAC expansion anchors were installed prior to the issuance of IE Bulletin 79-02. However, IE Bulletin 79-02 addressed only pipe supports (not building steel). Consequently, no redesign of other (non-piping) supports which were designed to building steel criteria was undertaken. The AISC, ACI-318 and ACI-349 criteria do not address prying action of baseplate on bolt loads. However, Bechtel noted that ACI does address prying action of steel-to-steel connections. The steel-to-steel prying action is also addressed in the AISC Code (8th Edition).

Bechtel contacted other engineering offices and found that no one is considering prying action for embedded anchor bolts for non-piping supports. Bechtel further gave the staff a copy of a letter from the AISC which states that the effect of any prying action with a steel-concrete connection would be small (see Attachment C). Bechtel referred to testing performed by TVA on expansion anchor bolts. The testing concluded that the ultimate strength of the anchor is not reduced with the effects of baseplate prying included. Thus, Bechtel concluded that because the concrete is relatively soft compared to steel, the effects of the baseplate prying action will be small. In addition, the slippage of the bolt does not degrade the ultimate anchorage capacity even though preload might be lost.

The staff asked the applicant what type of anchor bolts are used for the Midland plant. Bechtel stated that only Hilti and Redheads are used. For Redheads, only a 7/8" diameter bolt is used because Hilti does not make a 7/8" diameter bolt. All other bolt sizes are supplied by Hilti. Bechtel noted that Hilti has provided an end designator on their bolts. A stamped letter designates the length of the bolt. (e.g. an "0" designation is used for an 8 1/2" long bolt). Consequently, use of incorrect or substitute bolts can be verified. Additionally, if a low-strength bolt were substituted for the high-strength anchor bolt, the torque requirements specified in Specification C-305 (see Attachment D) would assure an initial preload stress in the bolts of approximately 30 ksi. Thus, the allowable design load in the bolt is assured in the preload.

The staff noted that it has not yet determined what the significance of the prying action would be for expansion anchor bolts in baseplates other than piping supports. This item remains unresolved pending further review by the staff of the prying action and the adequacy of the expansion anchor bolts.

4) Calculation for Duct Flange Bolts

The 3/8" bolts used in the companion flange connections of the HVAC ductwork were qualified by Bechtel in Calculation No. 34-323(Q) revision 0 dated October 14, 1983. The calculation concluded that assuming one bolt is effective in each corner of the flange, the bolt has adequate strength to accommodate the applicable loads and load combinations. The staff found the calculation to be based on conservative assumptions and the results appeared to show an adequate design margin. It should be noted that prying action (steel-to-steel) was considered in the calculation per AISC (8th Edition). A summary of the design margin for the maximum bolt loads for several duct sizes are shown in Attachment E.

ATTACHMENT A

11/27/83

| <u>NAME</u> | <u>COMPANY</u> |
|--------------------|------------------------|
| Vincent [unclear] | CPCO Legal/licensing |
| BILL HEIBERGER | MPQAD |
| Frank Hand | CPCO - CIVIL |
| Bob Kucharek | MPQAD |
| ARUN AMIN | BECHTEL ADO ENG.. |
| D.T. Scribner | Bechtel |
| P.V. REGUPATHY | BECHTEL ADO ENG. |
| ROB BURG | BECHTEL LICENSING/SAFE |
| Gary Tree | Bechtel Civil Resident |
| DAVE PERRY | CPCO ENGINEERING |
| Richard Scallan | Stone & Webster CIO |
| STEVE SMITH | ZACK CO. |
| Dennis ENGLAND | C.P.C. No. Lic. |
| Frederick J Lounds | MPQAD - HVACA |
| JOEL ANDERSON | BECHTEL PROJ. ENG. |
| F. Hawkins | NRC |
| DAVID TEXAO | NRC / MEB |
| James A Balger | CPCO SMO |
| J.J. Sullivan | BPC - HVAC |

ATTACHMENT B

List of Documents Reviewed at 10/17/83 Meeting

- 1) Calculations for HVAC duct with span exceeding 8 feet.

| <u>Calculation No.</u> | <u>Revision</u> |
|------------------------|-----------------|
| 34-309(Q) | 0 |
| 34-300(Q) | 0 |
| 34-299(Q) | 0 |
| 34-293(Q) | 0 |
| 34-292(Q) | 0 |
| 34-256(Q) | 0 |
| 34-250(Q) | 0 |
| 34-241(Q) | 0 |
| 34-212(Q) | 0 |

- 2) Calculation for Dome Air Mixing Supports and Ductwork
Calc. No. Q21B (5.137)(Q), Revision 1, dated 10/27/83.
- 3) Calculation for Companion Flange Bolt Load
Calc. No. 34-323(Q), Revision 0, dated 10/14/83

ATTACHMENT C



AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC.

The Wrigley Building / 400 North Michigan Avenue / Chicago, Illinois 60611-4185 / 312 • 670-2400

September 22, 1983

Mr. Theodore E. Johnson
Bechtel Associates Professional Corporation
P. O. Box 1000
Ann Arbor, MI 48106

Dear Mr. Johnson:

I have your letter of July 20, 1983 addressed to Mr. Milek. Mr. Milek has retired from AISC.

You are correct that AISC does not address the possibility of prying action on anchor bolts. The only tests that I am aware of have been with steel-to-steel connections.

It seems to me that any prying action with a steel-concrete connection would be small, if indeed, it exists. The concrete is quite soft compared to steel and would probably yield before significant prying forces developed.

I have never heard of any problem traceable to prying action with anchor bolts.

Sincerely,

Robert O. Disque
Assistant Director
Technical Publications

ROD/jf

SEP 21 1983

| CIVIL ENGINEERING - POWER ANN ARBOR | | |
|--|----------|---------|
| | INFO/ACT | MT DATE |
| 129 | | |
| Johnson, T.E. | ✓ | 12 |
| Sandner, D. | | 5/85 |
| Chang, H. | | |
| Chien, J. | | |
| Cortini, L. | | |
| Engel, M. | | |
| Johnson, W. | | |
| Matus, G. | | |
| Nowak, W. | | |
| Reitz, J. | | |
| Shunmugavel, P. | | |
| Tuveson, G. | | |
| Varga, J. | | |
| Patti | | |
| File 372 | | |

WEDGE AND STUD TYPE ANCHORS
IN REINFORCED CONCRETE**

| Anchor Diameter (in.) | Torque at Installation Threads Not Lubricated(1) (ft-lb) | Test Torques (After Installation) (ft-lb) | Minimum Embedment Before Torquing (in.) | Minimum Embedment After Torquing (in.) | Minimum C/C* Spacing (in.) | Minimum Edge Distance (in.) | Minimum Clear Distance from the Edge of Embedment (in.) |
|-----------------------|--|---|---|--|----------------------------|-----------------------------|---|
| 1/4 | 5 - 10 | 5 | 1-1/8 | 1 | 3 | 1-1/2 | ** |
| 3/8 | 25 - 35 | 20 | 1-5/8 | 1-3/8 | 4 | 2 | ** |
| 1/2 | 35 - 55 | 30 | 2-1/4 | 2 | 5 | 3 | ** |
| 5/8 | 130 - 160 | 80 | 2-3/4 | 2-1/2 | 6 | 3-1/2 | ** |
| 5/8 | 130 - 160 | 80 | 4 | 3-3/4 | 6 | 3-1/2 | ** |
| 3/4 | 240 - 270 | 135 | 3-1/4 | 2-7/8 | 7-1/2 | 4 | ** |
| 3/4 | 240 - 270 | 135 | 4 | 3-5/8 | 7-1/2 | 4 | ** |
| 3/4 | 240 - 270 | 135 | 5 | 4-5/8 | 7-1/2 | 4 | ** |
| 7/8 | 275 - 325 | 165 | 4 | 3-1/2 | 9 | 5 | ** |
| 7/8 | 275 - 325 | 165 | 5-1/2 | 5 | 9 | 5 | ** |
| 1 | 425 - 475 | 240 | 4-1/2 | 4 | 10 | 6 | ** |
| 1 | 425 - 475 | 240 | 6 | 5-1/2 | 10 | 6 | ** |

*See Table 4.1 for blockwalls
 **See Table 4.2
 ***Retroactive from April 23, 1976

NOTES:

- These values give a torque range which was determined by testing anchors for the different concrete strengths used on the job (for 1/2", 5/8", 3/4", and 1" expansion anchors only).
- Deleted
- The minimum spacing and minimum edge distance may be reduced up to 50% with prior approval of project engineering.
- For a given diameter, use longer minimum embedment length for installation, unless noted otherwise on the design documents or as approved by project engineering. Embedments shown in the design drawings are embedments before torquing.
- Minimum embedments after torquing can be obtained by subtracting displacement length (in.) from the embedment lengths shown on the design drawing:

| Bolt Diameter (in.) | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 |
|---------------------------|-------|------|------|------|-------|------|------|
| Displacement Length (in.) | 0.125 | 0.25 | 0.25 | 0.25 | 0.375 | 0.50 | 0.50 |

- When an installed expansion anchor has been loosened and then retightened, the torque at installation shall apply for retightening the anchor, and embedment length after torquing shall be verified.



Specification 7220-C-305(0), Rev 17
Appendix C

ATTACHMENT D



ATTACHMENT E

Table of HVAC Duct Flange Bolt Loads

| | | | FORCES IN BOLT @ SAFE SHUTDOWN EARTHQUAKE | | |
|-----------|-----------------|----------------------------|--|-------------------|---|
| DUCT SIZE | SHEET THICKNESS | OPERATING PRESSURE IN W.G. | MAX. TENSION IN BOLT OF COMPANION FLANGE | ALLOWABLE TENSION | $\frac{\text{Max. Calculated Load}}{\text{Allowable Load}}$ |
| 60" x 26" | 16 GAGE | 13" | 1200 lb | 2340 lb. | 0.51 |
| 60" x 60" | 14 GAGE | 13" | 1900 lb | 2340 lb | 0.81 |
| 30" x 30" | 18 GAGE | 13" | 586 lb. | 2340 lb | 0.25 |
| 60" x 60" | 16 GAGE | 4" | 840 lb. | 2340 lb. | 0.36 |

MIDLAND - ALLEGATIONS, INDIVIDUALS C, F, H, M, N, O, R, X, Y, Z, AND CC, ONE COPY FOR P. SPESSARD
COMPLETE LISTING

UPDATED 2/28/84

| ITEM | | | | RESOLUTION | | | |
|---|--------------------------|---------------------------------|---------------|----------------------------|-----------------------|-----------------------|------------------------|
| ITEM NO./ RESPONSE DUE | INSPECTOR/ MODULE NO. | ITEM TYPE/ BRIEF DESCRIPTION | FACILITY NAME | LICENSEE DESIGNATED NO. | INTERIM INSPECTION | INSPECTOR ASSIGNED | CLOSEOUT REPORT NO. |
| 329/82#03-01 | INDIVIDUAL C | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| <p>I SAW HEAVY DRINKING AROUND THE HOLIDAYS AT THE POSEYVILLE LAYDOWN AREA, ROUTINELY WORKERS GO DOWN TO OWENS PARTY STORE AT LUNCH AND GET BEER. AT LUNCH SOME WORKERS ALSO SMOKED GRASS. THIS ITEM CLOSED BASED ON AUGUST 4, 1983 SWORN STATEMENT OF INDIVIDUAL C (PAGES 7-8). INDIVIDUAL C'S SWORN STATEMENT SENT TO OI ON AUGUST 30, 1983.</p> <p>THE INDIVIDUAL WAS UNABLE TO PROVIDE DETAILS OF HOW THE CONCERN IMPACTED SAFETY RELATED CONSTRUCTION ACTIVITIES.</p> | | | | | | | |
| 329/82#03-02 | INDIVIDUAL C | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| <p>PIPEFITTERS HAD BELTBUCKLES CONSTRUCTED FROM STAINLESS STEEL PIPE AND WELDING RODS. SOME WERE MANUFACTURED IN THE COMBO SHOP. A WORKER FROM THE AUXILIARY BUILDING MADE BARBECUE SKEWERS. YOU COULD GET ALMOST ANYTHING YOU WANTED IF YOU KNEW THE RIGHT PEOPLE. THIS ITEM CLOSED BASED ON AUGUST 4, 1983 SWORN STATEMENT OF INDIVIDUAL C (PAGE 10).</p> <p>THE INDIVIDUAL WAS UNABLE TO PROVIDE DETAILS OF HOW THE CONCERN IMPACTED SAFETY RELATED CONSTRUCTION ACTIVITIES.</p> | | | | | | | |
| 329/82#03-03 | INDIVIDUAL C | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| <p>THERE WAS A LOT OF GOOFING OFF BY WORKERS AT THE PLANT. WORKERS WERE SLEEPING ON THE JOB. I HEARD RUMORS THAT SOME WORKERS WOULD WALK AROUND WITH THE SAME PLANK ALL DAY LONG IN ORDER TO LOOK BUSY. THIS ITEM CLOSED BASED ON AUGUST 4, 1983 SWORN STATEMENT OF INDIVIDUAL C (PAGE 11).</p> <p>THE INDIVIDUAL WAS UNABLE TO PROVIDE DETAILS OF HOW THE CONCERN IMPACTED SAFETY RELATED CONSTRUCTION ACTIVITIES.</p> | | | | | | | |

MIDLAND - ALLEGATIONS, INDIVIDUALS C, F, H, M, N, O, R, X, Y, Z, AND CC, ONE COPY FOR R. SPESSARD
COMPLETE LISTING

UPDATED 2/28/84

| ITEM | | | | RESOLUTION | | | |
|--|--------------------------|---------------------------------|---------------|----------------------------|-----------------------|-----------------------|------------------------|
| ITEM NO./ RESPONSE DUC | INSPECTOR/ MODULE NO. | ITEM TYPE/ BRIEF DESCRIPTION | FACILITY NAME | LICENSEE DESIGNATED NO. | INTERIM INSPECTION | INSPECTOR ASSIGNED | CLOSEOUT REPORT NO. |
| 329/82#03-04 | INDIVIDUAL C | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| <p>IN 1979 THE ZACK BLUEPRINTS AND DRAWINGS WERE IN HORRIBLE CONDITION. MOST OF THE ZACK QUALITY CONTROL PROCEDURES FOR CONTROLLING DRAWINGS WERE NOT FOLLOWED. DRAWINGS AND DRAWING REVISIONS WERE NOT PROPERLY CONTROLLED. REFER TO SWORN STATEMENT OF INDIVIDUAL C (PAGE 12-29) AND SECTIONS II AND III OF REPORT 83-08. (ONE VIOLATION). THIS ALLEGATION WAS CATEGORIZED AS AN UNDEFINED CONCERN (I.E. LACK OF SPECIFICITY) AND WAS ADDRESSED UNDER THE FIVE PHASE PROGRAM IN REPORT 83-08.</p> | | | | | | | |
| 329/82#03-05 | INDIVIDUAL C | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| <p>I NOTICED THAT SOME CONSTRUCTION MODIFICATIONS WERE DONE BEFORE THE CHANGES HAD BEEN APPROVED. THIS OFTEN INVOLVED HANGER DESIGN CHANGES. REFER TO SWORN STATEMENT OF INDIVIDUAL C (PAGES 29-33). THIS ALLEGATION WAS CATEGORIZED AS AN UNDEFINED CONCERN (I.E. LACK OF SPECIFICITY) AND WAS ADDRESSED UNDER THE FIVE PHASE PROGRAM IN REPORT 83-08.</p> | | | | | | | |
| 329/82#03-06 | INDIVIDUAL C | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| <p>PROBLEM WAS IDENTIFIED IN 1979 CONCERNING MATERIAL TRACEABILITY. I WAS REVIEWING A BLUEPRINT AND SAW THAT A DUCT REQUIRED A PITTSBURGH SEAM. NEITHER THE ZACK PROJECT MANAGER NOR THE FOREMAN KNEW WHAT A PITTSBURGH SEAM WAS. IT WASN'T BEING USED. THE FOREMAN AND THE PROJECT MANAGER TOLD ME TO DROP THE SUBJECT BECAUSE THEY WOULD TAKE CARE OF IT. IT DON'T KNOW IF THEY EVER DID. THIS ITEM CLOSED BASED ON AUGUST 4, 1983 SWORN STATEMENT OF INDIVIDUAL C (PAGES 33-37). PITTSBURGH SEAM WAS NOT USED IN SAFETY RELATED APPLICATIONS.</p> | | | | | | | |

| ITEM | | | | RESOLUTION | | | |
|---------------------------|--------------------------|--|---------------|----------------------------|-----------------------|-----------------------|------------------------|
| ITEM NO./ RESPONSE DUE | INSPECTOR/ MODULE NO. | ITEM TYPE/ BRIEF DESCRIPTION | FACILITY NAME | LICENSEE DESIGNATED NO. | INTERIM INSPECTION | INSPECTOR ASSIGNED | CLOSEOUT REPORT NO. |
| 329/82#03-07 | INDIVIDUAL C | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| | | <p>QC WAS SUPPOSED TO CONDUCT INDEPENDENT INSPECTIONS OF INSTALLED HVAC UNITS TO VERIFY THAT UNITS NOT YET INSTALLED WERE KEPT COVERED AND CLEAN AS REQUIRED. INSTEAD WE JUST COPIED THE MAINTENANCE SUPERVISOR'S RECORDS WITHOUT PERFORMING INSPECTIONS. THIS ITEM CLOSED BASED ON AUGUST 4, 1983 SWORN STATEMENT OF INDIVIDUAL C (PAGES 37-50).</p> <p>THIS ALLEGATION WAS CATEGORIZED AS AN UNDEFINED CONCERN (I.E. LACK OF SPECIFICITY) AND WAS ADDRESSED UNDER THE FIVE PHASE PROGRAM IN REPORT 83-08.</p> | | | | | |
| 329/82#03-08 | INDIVIDUAL C | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| | | <p>ZACK WELDERS STARTED DOING ARC-BRAZING WELDS BEFORE A PROCEDURE WAS DEVELOPED TO COVER BRAZING REQUIREMENTS ON WELDER QUALIFICATION REQUIREMENTS FOR BRAZING. QC DID STOP THE WORK AND PUT HOLDS ON ALL WORK ALREADY DONE. FINALLY ZACK CAME UP WITH A PROCEDURE AND HAD THE WELDERS TESTED AND QUALIFIED. THIS ITEM CLOSED BASED ON AUGUST 4, 1983 SWORN STATEMENT OF INDIVIDUAL C (PAGES 50-55) AND REPORT 83-08 SECTIONS I AND II.</p> | | | | | |
| 329/82#03-09 | INDIVIDUAL C | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| | | <p>THERE WERE MANY BAD WELDS IN THE CONTROL ROOM CLASS I HVAC DUCTWORK WITH DEFECTS SUCH AS BLOW HOLES AND EXCESSIVE POROSITY. SOME WELDS WERE BARELY ACCESSIBLE, IF AT ALL. I DON'T KNOW IF, OR HOW, THEY WERE ALL RECHECKED. QC INSPECTORS FOUND FIVE OR SIX BAD WELDS ON ONE PIECE OF DUCTWORK. THE FOREMAN DIDN'T WANT TO CUT THE PART OUT AND REPLACE IT BECAUSE THAT WOULD BE TOO MUCH WORK. I DON'T KNOW IF THE PIECE WAS EVER REPAIRED OR REPLACED. REFER TO SWORN STATEMENT OF INDIVIDUAL C (PAGES 55-62) AND REPORT 83-08 SECTIONS I AND II.</p> <p>THIS ALLEGATION WAS CATEGORIZED AS AN UNDEFINED CONCERN (I.E. LACK OF SPECIFICITY) AND WAS ADDRESSED UNDER THE FIVE PHASE PROGRAM IN REPORT 83-08.</p> | | | | | |

| ITEM | | | | RESOLUTION | | |
|---------------------------|--------------------------|---|---------------|----------------------------|--------------------------------|------------------------|
| ITEM NO./ RESPONSE DUE | INSPECTOR/ MODULE NO. | ITEM TYPE/ BRIEF DESCRIPTION | FACILITY NAME | LICENSEE DESIGNATED NO. | INTERIM INSPECTION ASSIGNED | CLOSEOUT REPORT NO. |
| 329/82#03-10 | INDIVIDUAL C | ALLEGATION IN THE EARLY SUMMER OF 1979 THERE WAS NO CONTROL OVER THE USE OF WELD RODS. WORKERS JUST GRABBED AS MANY RODS AS THEY WANTED BY THE HANDFUL AND DROPPED THEM OFF LATER. THERE WERE NO SIGN-INS OR SIGN-OUTS. INSPECTORS WOULD FIND THE RODS LYING IN THE FIELD ALONG WITH THE ROD STUBS AND HALF USED PIECES. THE WELD ROD CONTROL PROCEDURE WAS SUBSEQUENTLY REVISED AND ENFORCED. REFER TO SWORN STATEMENT OF INDIVIDUAL C (PAGES 62-66) AND REPORT 83-08 SECTIONS II, III, AND V. THIS ALLEGATION WAS CATEGORIZED AS AN UNDEFINED CONCERN (I.E. LACK OF SPECIFICITY) AND WAS ADDRESSED UNDER THE FIVE PHASE PROGRAM IN REPORT 83-08. | MIDLAND 1 | | HAWKINS | 83-08 |
| 329/82#03-11 | INDIVIDUAL C | ALLEGATION IN SOME CASES THE QC INSPECTORS SAID THERE WAS NO DOCUMENTATION THAT THE ANCHOR BOLTS FOR THE HVAC SYSTEM WERE EITHER TORQUED AT ALL OR TORQUED WITH A CALIBRATION TORQUE WRENCH. SOME OF THE BOLTS IN QUESTION WERE NO LONGER ACCESSIBLE. QC WENT BACK AND TORQUED AND DOCUMENTED AS MANY AS THEY COULD REACH BUT I DON'T KNOW WHAT HAPPENED TO THE REST. REFER TO SWORN STATEMENT OF INDIVIDUAL C (PAGES 66-74) AND REPORT 83-08 SECTIONS I & II. | MIDLAND 1 | | HAWKINS | 83-08 |
| 329/82#03-12 | INDIVIDUAL C | ALLEGATION A QC MANUAL WAS SO VAGUE IT WAS USELESS. THE MANUAL WAS REVISED IN OCTOBER 1979. I DO NOT KNOW IF THE PREVIOUS INSPECTION REPORTS DONE UNDER UNRELIABLE QC INSPECTION STANDARDS WERE RECHECKED TO SEE IF THE EARLIER TESTS HAD MISSED PROBLEMS. REFER TO SWORN STATEMENT OF INDIVIDUAL C (PAGES 74-77) AND REPORT 83-08 SECTIONS II, III AND V. THIS ALLEGATION WAS CATEGORIZED AS AN UNDEFINED CONCERN (I.E. LACK OF SPECIFICITY) AND WAS ADDRESSED UNDER THE FIVE PHASE PROGRAM IN REPORT 83-08. | MIDLAND 1 | | HAWKINS | 83-08 |

MIDLAND - ALLEGATIONS, INDIVIDUALS C, F, H, M, N, O, R, X, Y, Z, AND CC, ONE COPY FOR R, SPESSARD
COMPLETE LISTING

UPDATED 2/28/84

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| 329/82#03-13 | INDIVIDUAL C | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| <p>I WAS INFORMED THAT THE TESTING PROCEDURES UNDER WHICH INSPECTORS WERE QUALIFIED WERE NOT GOOD ENOUGH TO COVER THE KEY SKILLS. I UNDERSTAND THAT THE REQUIREMENTS HAVE BEEN REVISED, BUT AGAIN, UNQUALIFIED INSPECTORS MAY HAVE MISSED QUALITY FLAWS FOR A LONG TIME. REFER TO SWORN STATEMENT OF INDIVIDUAL C (PAGES 77-84) AND REPORT 83-08 SECTIONS II, III, AND V. THIS ALLEGATION WAS CATEGORIZED AS AN UNDEFINED CONCERN (I.E. LACK OF SPECIFICITY) AND WAS ADDRESSED UNDER THE FIVE PHASE PROGRAM IN REPORT 83-08.</p> | | | | | | | |
| 329/82#03-14 | INDIVIDUAL C | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| <p>DUE TO SCHEDULING PRESSURES NONCONFORMING HVAC DUCTWORK WAS INSTALLED IN THE PLANT. THE ZACK CHICAGO QA MANAGER AND VICE PRESIDENT SAW THE DUCTWORK AND LET IT GO TO THE FIELD. REFER TO SWORN STATEMENT OF INDIVIDUAL C (PAGES 84-94) AND REPORT 83-08, SECTIONS I, II, III, IV, V. THIS ALLEGATION WAS CATEGORIZED AS AN UNDEFINED CONCERN (I.E. LACK OF SPECIFICITY) AND WAS ADDRESSED UNDER THE FIVE PHASE PROGRAM IN REPORT 83-08.</p> | | | | | | | |
| 329/82#03-15 | INDIVIDUAL C | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| <p>THERE IS STRONG RESENTMENT AGAINST BECHTEL AND ZACK QC AT MIDLAND. INSPECTORS ARE REFERRED TO AS TROUBLEMAKERS OR AS A JOKE. QC SUPERVISOR FORCED OUT AFTER TRYING TO MAKE QC STRONGER. REFER TO SWORN STATEMENT OF INDIVIDUAL C (PAGES 94-97). THIS ALLEGATION WAS CATEGORIZED AS AN UNDEFINED CONCERN (I.E. LACK OF SPECIFICITY) AND WAS ADDRESSED UNDER THE FIVE PHASE PROGRAM IN REPORT 83-08.</p> | | | | | | | |

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| 329/82#06-01 | INDIVIDUAL F | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| | | <p>IN THE INTRODUCTION TO THE INVESTIGATION (NRC INSPECTION REPORT ON ZACK) THE LIST OF DOCUMENTS APPLICABLE TO THE 'YAC' ACTIVITIES FAILED TO INCLUDE THE AMERICAN WELDING SOCIETY (AWS) D-19 CODES REFERENCING THE WELDING OF GALVANIZED STEEL. HE BELIEVES THAT THIS SHOULD HAVE BEEN CHECKED BECAUSE THE AWS CODES PROVIDE THE GALVANIZED STEEL WELDING REQUIREMENTS THAT SHOULD HAVE BEEN ENFORCED. CLOSED IN REPORT 83-08 (REFERENCE INTRODUCTION SECTION AND SECTION I) IND. F. WAS NOT SATISFIED WITH THE RESULTS OF 80-10; 80-11. CLOSEOUT AND RESOLUTION OF CONCERNS ARE DOCUMENTED IN REPORTS 80-21; 80-22; 80-23; 80-24; 80-26; 80-27; AND 82-15; 82-15. INDIVIDUAL F'S AFFIDAVIT SENT TO OIA ON AUGUST 9, 1983.</p> | | | | | |
| 329/82#06-02 | INDIVIDUAL F | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| | | <p>HE BELIEVES THAT THERE IS SOMETHING SIGNIFICANTLY MISSING IN THE DISCUSSION OF ALLEGATION ONE (NRC INSPECTION REPORT ON ZACK) ABOUT THE TRAVELERS FROM CHICAGO NOT BEING ANNOTATED TO SHOW WHETHER OR NOT THEY WERE SCRAP. HE DISCOVERED THAT ALL SCRAPPED PARTS WERE NOT ACTUALLY DISCARDED. HE BELIEVES THAT MEANT THAT EVEN DEFECTIVE PARTS WERE BEING USED TO BUILD THE PLANT. RESOLUTION SAME AS 82#06-01.</p> | | | | | |
| 329/82#06-03 | INDIVIDUAL F | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| | | <p>IN THE FINDING OF ALLEGATION ONE HE HAS SIGNIFICANT DISCREPANCIES WITH THE INVESTIGATORS. TO THE BEST OF HIS KNOWLEDGE THE INITIALING OF THE LEFT-SIDE OF THE TRAVELER WAS NEVER A PART OF THE QC PROCEDURE UNTIL AFTER HE INITIATED THE ORIGINAL ALLEGATIONS. HE BELIEVES THE POST-INITIALING OF THE TRAVELERS DOES NOT CONSTITUTE A CONFIRMATION OF CURRENT ACCURACY IN THE TRAVELERS. RESOLUTION SAME AS 82#06-01.</p> | | | | | |

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| 329/82#06-04 | INDIVIDUAL F | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| <p>HE BELIEVES THAT CONTRARY TO THE NRC INSPECTION REPORT ON ZACK, CHICAGO PAINTED WELDS WERE COMPLETELY COVERED WITH THICK PAINT AND THAT THE PAINT OR LACK OF IT WAS A RELIABLE FACTOR IN DETERMINING THE SITE OF FABRICATION AND QUESTIONABLE DUCT PIECES. HE BELIEVES THIS MEANS THAT ZACK WAS ABLE TO MAKE PIECES AT THEIR LEISURE WITHOUT TRACEABILITY OR QC INSPECTIONS. RESOLUTION SAME A 82#06-01.</p> | | | | | | | |
| 329/82#06-05 | INDIVIDUAL F | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| <p>HE BELIEVES THAT ANOTHER SPECIFIC EXAMPLE OF OVERSIGHT IN THE NRC INSPECTION REPORT ON ZACK IS THE LACK OF FINDING FOR TRAVELER NUMBER V03-429-F10171. HE CONTENDS THAT IT IS DIFFICULT TO UNDERSTAND WHY THE NRC WOULD ACCEPT THE WORD OF ZACK OVER THE BLACK AND WHITE DOCUMENT PROVIDED OT THEM. HE ALSO QUESTIONS WHETHER THE ITEM V03-SH2-2-F9437 WAS ACTUALLY PHYSICALLY SCRAPPED AND THE DATE IT WAS SCRAPPED. RESOLUTION SAME AS 82#06-01.</p> | | | | | | | |
| 329/82#06-06 | INDIVIDUAL F | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| <p>CONCERNING THE FINDING ON ALLEGATION NUMBER 4 PERTAINING TO TRAVELER NUMBER V27-SH3A-29-F4410 (NRC INSPECTOR REPORT ON ZACK) HE CONTENDS THAT IN THE LIGHT OF ZACK'S RAMPANT MISLEADING STATEMENTS TO THE NRC AND CONSUMERS POWER CO., IT IS CURIOUS TO NOTE THAT NO FURTHER VERIFICATION WAS MADE, OTHER THAN A PAPERWORK REVIEW, TO INSURE THAT THE ITEM WAS IN FACT RETURNED. HE KNOWS PERSONALLY THAT THE ITEM WAS NOT RETURNED. RESOLUTION SAME AS 82#06-01.</p> | | | | | | | |

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| 329/82#06-07 | INDIVIDUAL F | ALLEGATION IT IS HIS UNDERSTANDING THAT CONSUMERS POWER COMPANY HAD DECIDED TO FORGET OR IGNORE THE UNRESOLVED ITEMS REFERENCED IN MCR MD-1 (NRC INSPECTION REPORT ON ZACK). HE BELIEVES THAT A LETTER SENT TO ZACK FROM CPCO IN MID-FEBRUARY CONGRATULATING THEM ON A CLEAN BILL OF HEALTH AND AUTHORIZING ZACK TO CONTINUE UNFETTERED WITH THEIR OWN REPAIR PROGRAM. HE REMAINS UNCONVINCED THAT 100% OF ALL ZACK WELDS WERE REINSPECTED. RESOLUTION SAME AS 82#06-01. | MIDLAND 1 | | | HAWKINS | 83-08 |
| 329/82#06-08 | INDIVIDUAL F | ALLEGATION ON TRAVELER NUMBER V26-SH2B-46.1-P1515 HE DOES NOT SEE WHERE THE DEEPER PROBLEM EVIDENT FROM THE NRC FINDING IS ADDRESSED BY THE NRC INSPECTION REPORT ON ZACK. HE SAYS THAT IT APPEARS THAT ZACK OPERATED UNDER THE ASSUMPTION THAT FIELD TESTING FOR GAS TIGHTNESS WOULD PRECLUDE VISUAL INSPECTION. HE SAYS THIS IS NOT ALLOWED PER APPLICABLE CODES AND IT IS IMPOSSIBLE TO PERFORM 100% INSPECTION AFTER INSTALLATION. RESOLUTION SAME AS 82#06-01. | MIDLAND 1 | | | HAWKINS | 83-08 |
| 329/82#06-09 | INDIVIDUAL F | ALLEGATION HE HAS A SIGNIFICANT DISCREPANCY WITH ITEM 5(A) (ALLEGATION 5) IN NRC INSPECTION REPORT ON ZACK. IT IS PRACTICALLY IMPOSSIBLE TO HAVE THE IDENTICAL SAME MATERIAL AVAILABLE FOR ONSITE REPAIR AS FOR THE ORIGINATION OF THE ITEM. EVEN IF REPAIRS WERE EXACTLY ACCORDING TO PROCEDURE A DIFFERENCE WOULD COME WITH INDIVIDUAL WELDERS DOING THE REPAIRS. MATERIAL TRACEABILITY AND REQUIREMENT FOR REGULAR INSPECTORS AFTER CERTAIN PHASES OF REPAIR IS LOST. RESOLUTION SAME AS 82#06-01 | MIDLAND 1 | | | HAWKINS | 83-08 |
| 329/82#06-10 | INDIVIDUAL F | ALLEGATION HE SAYS THAT IN ITS CONCLUSION OF FINDING FOR ALLEGATION 10 THE NRC BLATENTLY DISREGARDS THE REQUIREMENTS FOR MATERIAL TRACEABILITY AND DOCUMENTATION. (NRC INSPECTION REPORT ON ZACK). RESOLUTION SAME AS 82#06-01. | MIDLAND 1 | | | HAWKINS | 83-08 |

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| 329/82#06-11 | INDIVIDUAL F | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| | | HE SAYS THAT THE NRC WAS INCORRECT IN THE FINDING ON ALLEGATION 5(D) FOR WHICH CPCO PAID 3500 DOLLARS FOR NOT HAVING CARBON DIOXIDE AVAILABLE FOR USE AS A SHIELDED GAS. HE BELIEVES THAT CARBON DIOXIDE WAS ALWAYS AVAILABLE ON THE SITE. RESOLUTION SAME AS 82#06-01. | | | | | |
| 329/82#06-12 | INDIVIDUAL F | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| | | REGARDING ALLEGATION 13 (NRC REPORT ON ZACK) HE SAYS THE NRC COMPLETELY FAILS TO ADDRESS THE FACT THAT ALL ASPECTS OF REPAIR ARE NOT DOCUMENTED WITH RESPECT TO INDIVIDUAL TRAVELERS. HE SAYS THAT A NONCONFORMANCE REPORT OR HOLD REPORT IN NO WAY SUBSTITUTES THE REQUIREMENT FOR NOTATION OF REPAIRS ON EACH COMPONENT'S DOCUMENT. RESOLUTION SAME AS 82#06-01. | | | | | |
| 329/82#06-13 | INDIVIDUAL F | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| | | REGARDING ALLEGATION 15 HE HAS CONCERNS WITH STATEMENTS ABOUT THE WELDING ROD ISSUE ROOM (NRC REPORT ON ZACK). HE SAYS THAT THE ROOM WAS NOT LOCKED DURING THE MAJORITY OF THE TIME HE WORKED THERE. WELDING RODS WERE TAGGED ONLY AFTER NRC CAME TO INVESTIGATE HIS ALLEGATIONS. HE SEES OBVIOUS CONTRADICTIONS BETWEEN THE NRC'S OWN FINDING ABOUT THE WELDING ROD SITUATION, HIS PERSONAL OBSERVATIONS, AND WITH LATER NRC REPORT STATEMENTS. RESOLUTION SAME AS 82#06-01 | | | | | |
| 329/82#06-14 | INDIVIDUAL F | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| | | HE SAYS THAT THE NRC REPORT FAILED TO MENTION RON COOK'S STATEMENT TO ME THAT APPROXIMATELY 10,000 POUNDS OF NONCONFORMING 70-18 ROD HAD BEEN RECEIVED AND THAT THE ONLY EXPLANATION OFFERED BY ZACK WAS THAT THE ROD HAD ALL BEEN THROWN AWAY. HE DOES NOT CONSIDER THIS AN ACCEPTABLE RESPONSE TO ALLEGATION 15. RESOLUTION SAME AS 82#06-01. | | | | | |

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| 329/82#06-15 | INDIVIDUAL F | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| HE SAYS THAT THE NRC, IN THE PROBLEM SURROUNDING RUSKIN FIRE DAMPERS (ALLEGATION 16), FAILED TO REALIZE THAT REQUIRED INDIVIDUAL SERIAL NUMBERS ARE NON-EXISTENT ON THE ACTUAL FIRE DAMPERS. RESOLUTION SAME AS 82#06-01. | | | | | | | |
| 329/82#06-16 | INDIVIDUAL F | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| IN REGARDS TO ALLEGATION 20 HE FOUND NOTHING IN THE FINDING (NRC REPORT ON ZACK) FOR THIS ALLEGATION TO INDICATE THAT A CHECK WAS MADE TO ASSURE INACCURATE TRAVELERS WERE NOT BEING REPLACED ASIDE FROM ASKING THREE MENTIONED INSPECTORS. HE BELIEVES A SIMPLE REVIEW WOULD REVEAL THE CONTRARY. HE IS ALSO CONCERNED ABOUT MATERIAL TRACEABILITY OF NEW MATERIAL AND WELDER IDENTIFICATION. RESOLUTION SAME AS 82#06-01. | | | | | | | |
| 329/82#06-17 | INDIVIDUAL F | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| REGARDING ALLEGATION 21, CONCERNING PORTABLE WELD ROD CARRIER CALIBRATION STICKERS, HE BELIEVES THAT THE FINDING (NRC REPORT ON ZACK) DID NOT REVEAL THE FACT THAT THE EQUIPMENT FOR CALIBRATION ANY OF THE CARRIERS WAS INSUFFICIENT. HE CONSIDERS ANY AND ALL SUCH UNITS TO THUS BE OUT OF CALIBRATION. RESOLUTION SAME AS 82#06-01. | | | | | | | |
| 329/82#06-18 | INDIVIDUAL F | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| HE SAYS THAT THE NRC REPORT ON ZACK DOES NOT MENTION HOW OR IF THE ANGLE IRON DIMENSION DISCREPANCIES FOR PART NUMBER F-916, VI-3 HAVE BEEN RESOLVED. RESOLUTION SAME AS 82#06-01. | | | | | | | |
| 329/82#06-19 | INDIVIDUAL F | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| HE SAYS THAT IN REGARDS TO ALLEGATION 18 THE NRC OVERLOOKED THE FACT THAT A COPY OF THE AUDIT TO BE PERFORMED WAS SENT TO MIDLAND SEVERAL DAYS BEFORE THE ACTUAL AUDIT TOOK PLACE. (NRC REPORT ON ZACK). RESOLUTION SAME AS 82#06-01. | | | | | | | |

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| 329/82#08-01 | INDIVIDUAL H | ALLEGATION CONSUMERS POWER (BECHTEL) WAS NOTIFIED OF ZACK INCONSISTENCIES BY LETTER DATED AUGUST 28, 1981 (7220-M-151), CALKINS TO DAVIS. REF: CORRECTIVE ACTION REQUEST (CAR) 014. (EXHIBIT 2). SEE REPORT 83-08 SECTION I FOR RESOLUTION (50.55(E) VIOLATION). INDIVIDUAL H'S AFFIDAVIT AND SWORN STATEMENT SENT TO OIA AND OI ON AUG. 9/31 AND AUG. 30, 1983, RESPECTIVELY. | MIDLAND 1 | | | HAWKINS | 83-08 |
| 329/82#08-02 | INDIVIDUAL H | ALLEGATION MIDLAND QA CONTRACT EMPLOYEE DIRECTED PERSONNEL TO SIGN TRAINING FORM. PERSONNEL CLAIMED THEY RECEIVED NO TRAINING. (EXHIBIT 5) (CHECK APPLICABILITY OF THIS TO ZACK SITE PERSONNEL). (EXHIBIT 5). SEE REPORT C99900785/82-02 (RIV) ALLEGATIONS 2 AND 4 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | MIDLAND 1 | | | RIV | 82-02 |
| 329/82#08-03 | INDIVIDUAL H | ALLEGATION CATEGORIZATION OF MAJOR DISCREPANCIES IN INTERIM REPORT 10-02-81 TO BECHTEL (7220-M-151-C/B-548) ON 10-09-81 (EXHIBIT 6.A) AND (EXHIBIT 7). RESOLUTION SAME AS 82#08-01. | MIDLAND 1 | | | HAWKINS | 83-08 |
| 329/82#08-04 | INDIVIDUAL H | ALLEGATION THIRD INTERIM REPORT ON DISCREPANCIES (10-23-81) SENT TO BECHTEL 10-23-81 (7220-M-151-C/B-552). (EXHIBIT 8) PGS. 3, 6, 9, 12, AND 15. RESOLUTION SAME AS 82#08-01. | MIDLAND 1 | | | HAWKINS | 83-08 |
| 329/82#08-05 | INDIVIDUAL H | ALLEGATION QUESTIONABLE BECHTEL ENGINEERING ANALYSIS OF ZACK DISCREPANCIES, LETTER DAVIS TO GREUNE, 12-21-81. (EXHIBIT 11). RESOLUTION SAME AS 82#08-01. | MIDLAND 1 | | | HAWKINS | 83-08 |

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| 329/82#08-06 | INDIVIDUAL M | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| | | INDIVIDUAL STATED THAT CALKINS HAD CALLED H. LEONARD AT MIDLAND (PG 14 OF AFFIDAVIT). RESOLUTION SAME AS 82#08-01. | | | | | |
| 329/82#08-07 | INDIVIDUAL M | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| | | BECHTEL HAD KNOWLEDGE OF ZACK MATERIAL BEING SHIPPED TO THE SITE IN NONCONFORMING CONDITION. LETTER DAVIS TO EICHSTAEDT, 11-05-80 (EXHIBIT 15). RESOLUTION SAME AS 82#08-01. | | | | | |
| 329/82#08-08 | INDIVIDUAL M | ALLEGATION | MIDLAND 1 | | | RIV | 82-02 |
| | | EXAMPLES OF FALSIFIED TEST REPORTS, ONE COPY PRIOR TO FALSIFICATION, ONE COPY AFTER. STICKERS WERE DATED 11-06-80 BUT REQUEST FOR U.S. STEEL TO UPGRADE TEST REPORTS NOT MADE BEFORE 01-23-81. (EXHIBIT 17) (EXHIBIT 16). SEE REPORT C99900785/82-02 (RIV) ALLEGATIONS 8,9, AND 10 FOR RESOLUTION. ALSO OI REPORT 3-83-025. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | | | | | |
| 329/82#08-09 | INDIVIDUAL M | ALLEGATION | MIDLAND 1 | | | RIV | 82-02 |
| | | U. S. STEEL LETTER PETERS TO HAGEN, 09-21-81, IDENTIFYING 26 PO'S THAT WERE NOT ORIGINALLY ORDERED "SAFETY-RELATED". (EXHIBIT 20). SEE REPORT C99900785/82-02 (RIV) ALLEGATION 11 AND RIII REPORT 83-08 SECTIONS IV AND V FOR RESOLUTION. NRC MATERIAL TESTING INCLUDED SIX SAMPLES OF U.S. STEEL MATERIAL. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | | | | | |

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| 329/82#08-10 | INDIVIDUAL H | ALLEGATION ZACK AUDIT OF EDGEComb METALS IDENTIFIES UNACCEPTABLE QA PROGRAM (EXHIBIT 21). DETERMINE IF EDGEComb PRODUCTS WERE USED AT MIDLAND. SEE ALSO EXHIBITS 43, NRC ID02. SEE REPORT 83-03 SECTIONS IV AND V. NRC MATERIAL TESTING INCLUDED 10 SAMPLES OF EDGEComb MATERIAL. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | MIDLAND 1 | | | HAWKINS | 83-08 |
| 329/82#08-11 | INDIVIDUAL H | ALLEGATION ZACK REMOVES DELTA SCREW (DS) COMPANY FROM APPROVED VENDOR LIST ON 10-20-81 (EXHIBIT 24); HOWEVER, 38 POPS SENT TO DS DURING THE TIME THEY WERE SUPPOSEDLY REMOVED FROM LIST. (EXHIBIT 25). DETERMINE IF DS MATERIAL WAS USED AT MIDLAND. SEE REPORT C99900785/82-02 (RIV) ALLEGATIONS 7 AND 13 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | MIDLAND 1 | | | RIV | 82-02 |
| 329/82#08-12 | INDIVIDUAL H | ALLEGATION QUALIFICATIONS OF ZACK QA/QC PERSONNEL QUESTIONABLE (EXHIBIT 26). DETERMINE IF ZACK PERSONNEL AT MIDLAND ARE QUALIFIED. SEE REPORT C99900785/82-02 (RIV) ALLEGATIONS 2 AND 4 FOR RESOLUTION. ALSO REPORT 83-08 SECTIONS II AND III. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | MIDLAND 1 | | | RIV | 82-02 |

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| 329/82#08-13 | INDIVIDUAL H | ALLEGATION | MIDLAND 1 | | | RIV | 82-02 |
| <p>CERTIFICATION OF TEST RESULTS (EXHIBIT 27A) ENSURES MATERIAL ORDERED ON PO C-1253 WAS SUBJECT TO TESTING. PO C-1253 IS ON U.S.S. LIST AS NON SR (EXHIBIT 20). SEE REPORT C99900785/82-02 (RIV) ALLEGATION 11 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE.</p> | | | | | | | |
| 329/82#08-14 | INDIVIDUAL H | ALLEGATION | MIDLAND 1 | | | RIV | 82-02 |
| <p>ZACK PRESIDENT DOES QA REVIEW (EXHIBIT 27A AND B) 02-23-81. NOT TRAINED UNTIL 08-31-81 (EXHIBIT 28). SEE REPORT C99900785/82-02 (RIV) ALLEGATION 4 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE.</p> | | | | | | | |
| 329/82#08-15 | INDIVIDUAL H | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| <p>MIDLAND MEETING NOTES OF 11-03-81 (EXHIBIT 29). DETERMINE IF ALL COMMITMENTS WERE MET. RESOLUTION SAME AS 82#08-01.</p> | | | | | | | |
| 329/82#08-16 | INDIVIDUAL H | ALLEGATION | MIDLAND 1 | | | RIV | 82-02 |
| <p>DELTA SCREW MATERIAL IDENTIFIED AS NONCONFORMING C4286-NCR Q-112, C4484-NCR-M-110. NO MARKS ON BOLTHEADS TO IDENTIFY MANUFACTURER. BECHTEL CLEARED FOR USE WITHOUT BASIS (EXHIBIT 20A, B, C), (EXHIBIT 31), AND (EXHIBIT 32). SEE REPORT C99900785/82-02 (RIV) ALLEGATION 7 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE.</p> | | | | | | | |

| ITEM | | | | RESOLUTION | | | |
|---------------------------|--------------------------|---|---------------|----------------------------|-----------------------|-----------------------|------------------------|
| ITEM NO./ RESPONSE DUE | INSPECTOR/ MODULE NO. | ITEM TYPE/ BRIEF DESCRIPTION | FACILITY NAME | LICENSEE DESIGNATED NO. | INTERIM INSPECTION | INSPECTOR ASSIGNED | CLOSEOUT REPORT NO. |
| 329/82#08-17 | INDIVIDUAL H | ALLEGATION REVIEW CPCO INVESTIGATION (APRIL 15, 1980) OF ALLEGERS' ALLEGATIONS FOR CREDIBILITY. SEE REPORT 83-08 (BACKGROUND AND METHODOLOGY SECTIONS AND AUGUST 30, 1983 LETTER TO OI FROM DE. THIS ITEM IS RELATED TO OI INVESTIGATIONS OF INDIVIDUALS WRONGFUL FIRING (3-82-057). | MIDLAND 1 | | | HAWKINS | 83-08 |
| 329/82#08-18 | INDIVIDUAL H | ALLEGATION DETERMINE IF WELDSTAR WAS INVOLVED IN SUPPLYING WELD MATERIAL TO MIDLAND. (EXHIBIT 41). IF SO, DETERMINE IF CERTS EXIST FOR MATERIAL PURCHASED IN 1978 OR PRIOR TO THAT DATE. SEE REPORT C99900785/82-02 (RIV) ALLEGATION 10 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | MIDLAND 1 | | | RIV | 82-02 |
| 329/82#08-19 | INDIVIDUAL H | ALLEGATION ZACK AUDIT IZC/81-7 (09-10-81) IDENTIFIES SIGNIFICANT QA BREAKDOWN (EXHIBIT 42). DETERMINE APPLICABILITY TO MIDLAND. RESOLUTION SAME AS 82#08-01. (BASIS FOR ZACK'S AUG.28, 1981 LETTER TO MIDLAND ON CERTIFICATION DEFICIENCIES). | MIDLAND 1 | | | HAWKINS | 83-08 |
| 329/82#08-20 | INDIVIDUAL H | ALLEGATION REVIEW NRC Q111 WRITTEN ON C4406 FOR POSSIBLE FALSIFICATION AND APPLICABILITY TO MIDLAND (EXHIBIT 43, NRC IO 01). SEE REPORT C99900785/82-02 (RIV) ALLEGATION 7 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | MIDLAND 1 | | | RIV | 82-02 |

MIDLAND - ALLEGATIONS, INDIVIDUALS C, F, H, M, N, O, R, X, Y, Z, AND CC, ONE COPY FOR R. SPESSARD
COMPLETE LISTING

UPDATED 2/28/84

| ITEM | | | | RESOLUTION | | | |
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| ITEM NO./ RESPONSE DUE | INSPECTOR/ MODULE NO. | ITEM TYPE/ BRIEF DESCRIPTION | FACILITY NAME | LICENSEE DESIGNATED NO. | INTERIM INSPECTION | INSPECTOR ASSIGNED | CLOSEOUT REPORT NO. |
| 329/83#03-01 | INDIVIDUAL M | ALLEGATION | MIDLAND 1 | | | RIV | 82-02 |
| | | <p>CMTRS WERE ALTERED TO RESOLVE THE LACK OF PROPERLY REFERENCED STANDARDS AND MISSING AUTHENTICATION SIGNATURE. THESE DOCUMENT ALTERATIONS WERE IDENTIFIED IN THE INTERIM REPORTS ZACK SUPPLIED TO THE UTILITIES FOR A SIGNIFICANT EVENT DISCLOSURE. HE WOULD RATHER CLASSIFY THE ALTERATIONS AS FORGERIES. SEE REPORT C99900785/82-02 (RIV) ALLEGATIONS 8 AND 9 AND 01 REPORT 3-82-025 FOR RESOLUTION. REPORT 03-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE.</p> | | | | | |
| 329/83#03-02 | INDIVIDUAL M | ALLEGATION | MIDLAND 1 | | | RIV | 82-02 |
| | | <p>SCATTERED AND MISSING PURCHASE ORDERS AND RELATED DOCUMENTATION WERE CONTINUALLY INCLUDED IN THE PURCHASE ORDER FOLDERS WITHOUT BEING LOGGED INTO THE DOCUMENT CONTROL LOG BOOK AS REQUIRED. SEE REPORT C99900785/82-02 (RIV) ALLEGATION 5 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE.</p> | | | | | |
| 329/83#03-03 | INDIVIDUAL M | ALLEGATION | MIDLAND 1 | | | RIV | 82-02 |
| | | <p>PURCHASE ORDERS WERE INCOMPLETE. SEE REPORT C99900785/82-02 (RIV) ALLEGATION 11 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE.</p> | | | | | |
| 329/83#03-04 | INDIVIDUAL M | ALLEGATION | MIDLAND 1 | | | RIV | 82-02 |
| | | <p>INABILITY OF SUBTIER VENDORS TO SUPPLY MISSING INFORMATION. SEE REPORT C99900785/82-02 (RIV) ALLEGATIONS 6,7,10 AND 11 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE.</p> | | | | | |

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| ITEM NO./ RESPONSE DUE | INSPECTOR/ MODULE NO. | ITEM TYPE/ BRIEF DESCRIPTION | FACILITY NAME | LICENSEE DESIGNATED NO. | INTERIM INSPECTION | INSPECTOR ASSIGNED | CLOSEOUT REPORT NO. |
| 329/83#03-05 | INDIVIDUAL M | ALLEGATION AN APPROVED VENDORS LIST THAT FAILED TO REFLECT ZACK'S PURCHASING PRACTICES. SEE REPORT C99900785/82-02 (RIV) ALLEGATIONS 12 AND 13 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | MIDLAND 1 | | | RIV | 82-02 |
| 329/83#03-06 | INDIVIDUAL M | ALLEGATION THE PURCHASE ORDER FOR MATERIAL SUPPLIED TO MIDLAND WOULD READ LASALLE. SEE LASALLE REPORTS 373/82-511374/82-18 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | MIDLAND 1 | | | HAWKINS | 83-08 |
| 329/83#03-07 | INDIVIDUAL M | ALLEGATION AN OCTOBER 9, 1981 REPORT IDENTIFIED (1) ALTERED CERTIFICATIONS; (2) WHITE-OUT USED AND RETYPED; AND (3) HEAT NUMBERS ALTERED TO AGREE WITH CERTIFICATIONS. REFER TO REPORTS 83-08 SECTION I, C99900785/82-02 (RIV) ALLEGATIONS 8 AND 9; AND OI 3-82-025 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | MIDLAND 1 | | | RIV | 82-02 |
| 329/83#03-08 | INDIVIDUAL M | ALLEGATION THE DOCUMENT CONTROL WAS SO POOR TRADITIONALLY THAT THE RECORDS HAD BEEN PILED ON FLOORS IN BOXES. EVEN AFTER THE DOCUMENT CONTROL CENTER HAD BEEN ESTABLISHED, UNAUTHORIZED PERSONNEL WERE REMOVING QUALITY DOCUMENTS WITHOUT SIGNING THEM OUT. REFER TO REPORT C99900785/82-02 (RIV) ALLEGATIONS 1 AND 5 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | MIDLAND 1 | | | RIV | 82-02 |

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| 329/83#03-09 | INDIVIDUAL M | ALLEGATION | MIDLAND 1 | | | RIV | 82-02 |
| <p>INTERIM REPORTS WERE PRODUCED ON A RUSH BASIS IN ORDER TO SHOW DOCUMENTED EVIDENCE THAT ZACK WAS IMPLEMENTING CORRECTIVE ACTION AND THAT THE UTILITIES COULD PROCEED WITH CONSTRUCTION. THESE INTERIM REPORTS WERE INACCURATE AND SHOULD HAVE BEEN CONTINUALLY REVISED TO REFLECT AN ACCURATE STATUS REPORT. SEE REPORTS C99900785/82-02 (RIV) ALLEGATION 16 AND 83-08 SECTION I (50.55(E)) FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE.</p> | | | | | | | |
| 329/83#03-10 | INDIVIDUAL M | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| <p>AN OCTOBER 23, 1981 REPORT ACCURATELY IDENTIFIED PROBLEMS WITH MATERIAL CERTIFICATIONS, IMPROPER ACCESS TO DOCUMENTS, AND UNAUTHORIZED DOCUMENT ALTERATIONS. RESOLUTION SAME AS 82#08-01.</p> | | | | | | | |
| 329/83#04-01 | INDIVIDUAL N | ALLEGATION | MIDLAND 1 | | | RIV | 82-02 |
| <p>I HAD VIRTUALLY NO FORMAL TRAINING FOR MY WORK. SEE REPORT C99900785/82-02 (RIV) ALLEGATION 4 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE.</p> | | | | | | | |
| 329/83#04-02 | INDIVIDUAL N | ALLEGATION | MIDLAND 1 | | | RIV | 82-02 |
| <p>REPRODUCED COPIES WERE NOT IDENTICAL TO THE ORIGINAL PO. DISCREPANCIES INCLUDED FREQUENT SPACES ON THE REPRODUCTIONS WHICH HAD BEEN WHITED-OUT AND SOMETIMES FILLED IN OVER AGAIN. SEE REPORT C99900785/82-02 (RIV) ALLEGATIONS 8 AND 9 AND 01 REPORT 3-82-025 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE.</p> | | | | | | | |

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| 329/83#04-03 | INDIVIDUAL N | ALLEGATION | MIDLAND 1 | | | RIV | 82-02 |
| <p>MANUFACTURERS DID NOT SEEM ESPECIALLY CAREFUL IN MONITORING THE EQUIPMENT PAPERWORK. ONE MANUFACTURER SENT US A TYPICAL CERTIFICATION FORM FOR SEVERAL LOTS OF WELDING MATERIAL, ALONG WITH A LETTER INDICATING THAT WE COULD FILL IN THE SPECIFICATIONS AND MATCH THEM UP WITH THE PO'S THEMSELVES. SEE REPORT C99900785/82-02 (RIV) ALLEGATION 10 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE.</p> | | | | | | | |
| 329/83#04-04 | INDIVIDUAL N | ALLEGATION | MIDLAND 1 | | | RIV | 82-02 |
| <p>COMMENTS CONCERNING POOR DOCUMENT CONTROL. REFER TO REPORT C99900785/82-02 (RIV) ALLEGATIONS 1 AND 5 AND OI REPORT 3-82-025 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE.</p> | | | | | | | |
| 329/83#04-05 | INDIVIDUAL N | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| <p>DURING THE TIME I WORKED FOR ZACK, THE NRC DID NOTHING THAT I AM AWARE OF TO INSPECT ZACK PROCEDURES OR MONITOR THEIR QA PROGRAM. SEE LETTERS FROM RIII WHICH REFER THIS ISSUE TO OIA (DATED AUG. 9, AND 31, 1983) FOR APPROPRIATE ACTION. THE LETTERS FORWARDED IND. H'S AFFIDAVIT AND SWORN STATEMENT AND IND. O'S AFFIDAVIT REGARDING SAME ISSUE. REPORT 83-08 REFERS TO ISSUES SENT TO OIA.</p> | | | | | | | |
| 329/83#05-01 | INDIVIDUAL O | ALLEGATION | MIDLAND 1 | | | RIV | 82-02 |
| <p>COMMENTS REGARDING POOR DOCUMENT CONTROL. SEE REPORT C99900785/82-02 (RIV) ALLEGATIONS 1 AND 2 AND OI REPORT 3-82-025 FOR RESOLUTION. INDIVIDUAL O'S AFFIDAVIT FORWARDED TO OIA IN LETTER DATED AUGUST 9, 1982. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE.</p> | | | | | | | |

| ITEM | | | | RESOLUTION | | | |
|---|--------------------------|---------------------------------|---------------|----------------------------|-----------------------|-----------------------|------------------------|
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| 329/83#05-02 | INDIVIDUAL 0 | ALLEGATION | MIDLAND 1 | | | RIV | 82-02 |
| THERE WAS NO CONTROL OVER NUCLEAR PURCHASE ORDERS. AFTER I WAS FIRED I LEARNED THAT SOMEONE HAD GONE INTO SOME OF THE FILES TO FIX OR CORRECT THE VARIOUS PD'S. SEE REPORT C99900785/82-02 (RIV) ALLEGATIONS 8 AND 9 AND OI REPORT 3-82-025 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | | | | | | | |
| 329/83#05-03 | INDIVIDUAL 0 | ALLEGATION | MIDLAND 1 | | | RIV | 82-02 |
| COMMENTS REGARDING LACK OF FORMAL TRAINING. SEE REPORT C99900785/82-02 (RIV) ALLEGATION 4 FOR RESOLUTION REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | | | | | | | |
| 329/83#05-04 | INDIVIDUAL 0 | ALLEGATION | MIDLAND 1 | | | RIV | 82-02 |
| TO THE BEST OF MY PERSONAL KNOWLEDGE A COMPLETE AUDIT IS STILL NOT FINISHED AT ZACK. (QA DOCUMENTATION). SEE REPORT C99900785/82-02 (RIV) ALLEGATION 16 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | | | | | | | |
| 329/83#05-05 | INDIVIDUAL 0 | ALLEGATION | MIDLAND 1 | | | RIV | 82-02 |
| A NUMBER OF THE CMTR'S I INSPECTED WERE ALTERED. SEE REPORT C99900785/82-02 (RIV) ALLEGATIONS 8 AND 9 AND OI REPORT 3-82-025 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | | | | | | | |

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| 329/83#05-06 | INDIVIDUAL 0 | ALLEGATION | MIDLAND 1 | | | RIV | 82-02 |
| <p>I WAS NOT QUALIFIED TO MAKE A RESOLUTION OR EXCUSE FOR PROBLEMS LIKE MISSING CERTIFICATIONS (CONCERNING NCRS SHE WAS FORCED TO WRITE). SEE REPORT C99900785/82-02 (RIV) ALLEGATION 4 FOR RESOLUTION.</p> <p>REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE.</p> | | | | | | | |
| 329/83#05-07 | INDIVIDUAL 0 | ALLEGATION | MIDLAND 1 | | | RIV | 82-02 |
| <p>IN LETTER FROM A SUB-TIER VENDOR CONCERNING MISSING CERTIFICATIONS OR SPECIFICATIONS THE VENDOR TOLD ZACK TO JUST FILL IN THE BLANKS. SEE REPORT C99900785/82-02 (RIV) ALLEGATION 10 FOR RESOLUTION.</p> <p>REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE.</p> | | | | | | | |
| 329/83#05-08 | INDIVIDUAL 0 | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-03 |
| <p>TO THE BEST OF MY KNOWLEDGE THERE WAS NEVER AN NRC INVESTIGATION AT THE ZACK SITE DURING MY EMPLOYMENT THERE. REPORT 83-08 REFERS TO AFFIDAVITS AND STATEMENTS WHICH WERE SENT TO OIA. REFER TO AUGUST 9, 1983 LETTER FROM REGION III TO OIA.</p> | | | | | | | |
| 329/83#05-09 | INDIVIDUAL 0 | ALLEGATION | MIDLAND 1 | | | RIV | 82-02 |
| <p>I ALSO BELIEVE THERE SHOULD BE A REVIEW OF ZACK WELDER QUALIFICATION RECORDS. SEE REPORT C99900785/82-02 (RIV) ALLEGATION 3 AND RIII REPORTS 83-13183-14, (COOK RELEASE OF ZACK WORK) FOR RESOLUTION.</p> <p>REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE.</p> | | | | | | | |

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| 329/83#08-01 | INDIVIDUAL R | ALLEGATION | MIDLAND 1 | | | COOK | 83-11 |
| <p>UNQUALIFIED PERSONNEL AT MIDLAND INCLUDE LEO DAVIS, DICK SOOERMOLM, CLARK ASH, AND ED ENTROKIN. REFER TO JUNE 27, 1983 LETTER TO SINCLAIR FROM KEPPLER. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE.</p> | | | | | | | |
| 329/83#08-02 | INDIVIDUAL R | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| <p>ZACK ALSO DID NOT HAVE QUALIFIED PEOPLE FOR DESIGN WORK THEY WERE DOING. SEE REPORT 83-08 SECTION I FOR RESOLUTION (ATTACHMENT E TO REPORT 8308)</p> | | | | | | | |
| 329/83#08-03 | INDIVIDUAL R | ALLEGATION | MIDLAND 1 | | | COOK | 83-11 |
| <p>HE CLAIMS THAT ALL WORK ON ANY CONSTRUCTION PROJECT BEYOND A CERTAIN LIMITED SIZE MUST BE DONE AS A MICHIGAN REGISTERED ENGINEER OR ARCHITECT. ALSO SEE REPORT 83-08 SECTION I AND JUNE 27, 1983 LETTER TO SINCLAIR FROM KEPPLER FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE.</p> | | | | | | | |
| 329/83#08-04 | INDIVIDUAL R | ALLEGATION | MIDLAND 1 | | | COOK | 83-11 |
| <p>HE TOLD ME THAT A VERY GOOD WELDER QUIT THE PROJECT RECENTLY BECAUSE THE SCHEDULING WAS SO ERRATIC. SEE JUNE 27, 1983 LETTER TO SINCLAIR FROM KEPPLER FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE.</p> | | | | | | | |

| ITEM | | | | RESOLUTION | | | |
|---|--------------------------|---------------------------------|---------------|----------------------------|-----------------------|-----------------------|------------------------|
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| 329/83#14-01 | INDIVIDUAL X | ALLEGATION | MIDLAND 1 | | | RIV | 82-02 |
| <p>TRAINING WAS INADEQUATE IN PREPARING HIM TO PERFORM HIS JOB WITH ZACK. SEE REPORT C99900785/82-02 (RIV) ALLEGATION 4 AND 83-08 SECTION I FOR RESOLUTION.</p> <p>REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE.</p> | | | | | | | |
| 329/83#14-02 | INDIVIDUAL X | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| <p>UPPER LEVEL ZACK MANAGEMENT PRESSURES HAVE AFFECTED THE QUALITY OF WORK. SEE REPORT 83-08 SECTION I AND OI REPORT 3-82-057 FOR RESOLUTION.</p> <p>REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE.</p> | | | | | | | |
| 329/83#14-03 | INDIVIDUAL X | ALLEGATION | MIDLAND 1 | | | RIV | 82-02 |
| <p>HE FREQUENTLY SAW DOCUMENTS HAVING EVIDENCE OF SIGNATURES OF QUESTIONABLE AUTHENTICITY, WHITE OUTS AND HEAT NUMBER ALTERATIONS. SEE OI REPORTS 3-82-025, RIII REPORT 83-08 SECTION I, AND RIV REPORT C99900785/82-02 RIV ALLEGATION 8 AND 9 FOR RESOLUTION.</p> <p>REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE.</p> | | | | | | | |
| 329/83#15-01 | INDIVIDUAL Y | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| <p>DUE TO THE FAILURE OF CPCO TO POST X-RAY SIGNS, HE WAS EXPOSED TO RADIATION PRODUCED BY X-RAY EQUIPMENT. SEE REPORT 83-08 SECTION I FOR RESOLUTION. THE INDIVIDUAL DID NOT WISH TO PURSUE THIS ISSUE WITH THE NRC.</p> | | | | | | | |

MIDLAND - ALLEGATIONS, INDIVIDUALS C, F, H, M, N, O, R, X, Y, Z, AND CC, ONE COPY FOR R, SPESSARD
COMPLETE LISTING

UPDATED 2/28/84

| ITEM | | | | RESOLUTION | | | |
|---------------------------|--------------------------|--|---------------|----------------------------|-----------------------|-----------------------|------------------------|
| ITEM NO./ RESPONSE DUE | INSPECTOR/ MODULE NO. | ITEM TYPE/ BRIEF DESCRIPTION | FACILITY NAME | LICENSEE DESIGNATED NO. | INTERIM INSPECTION | INSPECTOR ASSIGNED | CLOSEOUT REPORT NO. |
| 329/83#16-01 | INDIVIDUAL Z | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| | | IMPROPER DEFICIENCY TRENDING TECHNIQUES AT ZACK. SEE REPORT 83-08 SECTION I AND III FOR RESOLUTION. INDIVIDUAL Z'S SWORN STATEMENT SENT TO OI ON 11-3-83. | | | | | |
| 329/83#16-02 | INDIVIDUAL Z | ALLEGATION | MIDLAND 1 | | | GARDNER | |
| | | UNQUALIFIED COMSTOCK PERSONNEL PERFORMING ENGINEERING AND QUALITY FUNCTIONS. | | | | | |
| 329/83#16-03 | INDIVIDUAL Z | ALLEGATION | MIDLAND 1 | | | COOK | 83-21 |
| | | INADEQUATE DESIGN AND CONSTRUCTION OF INSTRUMENT TUBING AND SUPPORTS BY BECHTEL AND COMSTOCK. SEE REPORT 83-08 SECTION I FOR DETAIL OF RESOLUTION. | | | | | |
| 329/83#19-01 | INDIVIDUAL CC | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| | | IMPROPER USE OF ONSITE DESIGN CHANGE METHODS. SEE REPORT 83-08 SECTION I FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | | | | | |
| 329/83#19-02 | INDIVIDUAL CC | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-08 |
| | | INCORRECT INSTALLATION OF ANCHOR BOLTS FOR SURFACE MOUNTED PLATES. SEE REPORT 83-08 SECTION I AND II FOR RESOLUTION. | | | | | |
| 329/83-19-03 | INDIVIDUAL CC | ALLEGATION | MIDLAND 1 | | | HAWKINS | 83-09 |
| | | EXTENSIVE PROPOSED CONTROL ROOM HVAC REDISIGN. SEE REPORT 83-08 SECTION I FOR RESOLUTION. REFERRED TO TERA FOR INCORPORATION INTO THE CONTROL ROOM HVAC DESIGN REVIEW. | | | | | |

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| ITEM | | | | RESOLUTION | | | |
|---------------------------|--------------------------|--|---------------|----------------------------|-----------------------|-----------------------|------------------------|
| ITEM NO./ RESPONSE DUE | INSPECTOR/ MODULE NO. | ITEM TYPE/ BRIEF DESCRIPTION | FACILITY NAME | LICENSEE DESIGNATED NO. | INTERIM INSPECTION | INSPECTOR ASSIGNED | CLOSEOUT REPORT NO. |
| 329/83#19-04 | INDIVIDUAL CC | ALLEGATION EXCESSIVE BLOWHOLES IN THE CONTROL ROOM DUCTWORK. SEE REPORT 83-08 SECTION I AND II FOR RESOLUTION. | MIDLAND 1 | | | HAWKINS | 83-08 |
| 329/83#19-05 | INDIVIDUAL CC | ALLEGATION BECHTELS USE OF NONDISCLOSURE STATEMENTS. ALSO SEE REPORT 83-08 SECTION I. | MIDLAND 1 | | | HARRISON | 83-10 |
| 330/82#03-01 | INDIVIDUAL C | ALLEGATION I SAW HEAVY DRINKING AROUND THE HOLIDAYS AT THE POSEYVILLE LAYDOWN AREA. ROUTINELY WORKERS GO DOWN TO OWENS PARTY STORE AT LUNCH AND GET BEER. AT LUNCH SOME WORKERS ALSO SMOKED GRASS. THIS ITEM CLOSED BASED ON AUGUST 4, 1983 SWORN STATEMENT OF INDIVIDUAL C (PAGES 7-8). INDIVIDUAL C'S SWORN STATEMENT SENT TO OI ON AUGUST 30, 1983. THE INDIVIDUAL WAS UNABLE TO PROVIDE DETAILS OF HOW THE CONCERN IMPACTED SAFETY RELATED CONSTRUCTION ACTIVITIES. | MIDLAND 2 | | | HAWKINS | 83-08 |
| 330/82#03-02 | INDIVIDUAL C | ALLEGATION PIPEFITTERS HAD BELTBUCKLES CONSTRUCTED FROM STAINLESS STEEL PIPE AND WELDING RODS. SOME WERE MANUFACTURED IN THE COMBO SHOP. A WORKER FROM THE AUXILIARY BUILDING MADE BARBECUE SKEWERS. YOU COULD GET ALMOST ANYTHING YOU WANTED IF YOU KNEW THE RIGHT PEOPLE. THIS ITEM CLOSED BASED ON AUGUST 4, 1983 SWORN STATEMENT OF INDIVIDUAL C (PAGE 10). THE INDIVIDUAL WAS UNABLE TO PROVIDE DETAILS OF HOW THE CONCERN IMPACTED SAFETY RELATED CONSTRUCTION ACTIVITIES. | MIDLAND 2 | | | HAWKINS | 83-08 |

| ITEM | | | | RESOLUTION | | | |
|---|--------------------------|---------------------------------|---------------|----------------------------|-----------------------|-----------------------|------------------------|
| ITEM NO./ RESPONSE DUE | INSPECTOR/ MODULE NO. | ITEM TYPE/ BRIEF DESCRIPTION | FACILITY NAME | LICENSEE DESIGNATED NO. | INTERIM INSPECTION | INSPECTOR ASSIGNED | CLOSEOUT REPORT NO. |
| 330/82#03-03 | INDIVIDUAL C | ALLEGATION | MIDLAND 2 | | | HAWKINS | 83-08 |
| <p>THERE WAS A LOT OF GOOFING OFF BY WORKERS AT THE PLANT. WORKERS WERE SLEEPING ON THE JOB. I HEARD RUMORS THAT SOME WORKERS WOULD WALK AROUND WITH THE SAME PLANK ALL DAY LONG IN ORDER TO LOOK BUSY. THIS ITEM CLOSED BASED ON AUGUST 4, 1983 SWORN STATEMENT OF INDIVIDUAL C (PAGE 11). THE INDIVIDUAL WAS UNABLE TO PROVIDE DETAILS OF HOW THE CONCERN IMPACTED SAFETY RELATED CONSTRUCTION ACTIVITIES.</p> | | | | | | | |
| 330/82#03-04 | INDIVIDUAL C | ALLEGATION | MIDLAND 2 | | | HAWKINS | 83-08 |
| <p>IN 1979 THE ZACK BLUEPRINTS AND DRAWINGS WERE IN HORRIBLE CONDITION. MOST OF THE ZACK QUALITY CONTROL PROCEDURES FOR CONTROLLING DRAWINGS WERE NOT FOLLOWED. DRAWINGS AND DRAWING REVISIONS WERE NOT PROPERLY CONTROLLED. REFER TO SWORN STATEMENT OF INDIVIDUAL C (PAGE 12-29) AND SECTIONS II AND III OF REPORT 83-08. (ONE VIOLATION). THIS ALLEGATION WAS CATEGORIZED AS AN UNDEFINED CONCERN (I.E. LACK OF SPECIFICITY) AND WAS ADDRESSED UNDER THE FIVE PHASE PROGRAM IN REPORT 83-08.</p> | | | | | | | |
| 330/82#03-05 | INDIVIDUAL C | ALLEGATION | MIDLAND 2 | | | HAWKINS | 83-08 |
| <p>I NOTICED THAT SOME CONSTRUCTION MODIFICATIONS WERE DONE BEFORE THE CHANGES HAD BEEN APPROVED. THIS OFTEN INVOLVED HANGER DESIGN CHANGES. REFER TO SWORN STATEMENT OF INDIVIDUAL C (PAGES 29-33). THIS ALLEGATION WAS CATEGORIZED AS AN UNDEFINED CONCERN (I.E. LACK OF SPECIFICITY) AND WAS ADDRESSED UNDER THE FIVE PHASE PROGRAM IN REPORT 83-08.</p> | | | | | | | |

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COMPLETE LISTING

UPDATED 2/28/84

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| ITEM NO./ RESPONSE DUE | INSPECTOR/ MODULE NO. | ITEM TYPE/ BRIEF DESCRIPTION | FACILITY NAME | LICENSEE DESIGNATED NO. | INTERIM INSPECTION | INSPECTOR ASSIGNED | CLOSEOUT REPORT NO. |
| 330/82#03-06 | INDIVIDUAL C | ALLEGATION | MIDLAND 2 | | | HAWKINS | 83-08 |
| | | <p>PROBLEM WAS IDENTIFIED IN 1979 CONCERNING MATERIAL TRACEABILITY. I WAS REVIEWING A BLUEPRINT AND SAW THAT A DUCT REQUIRED A PITTSBURGH SEAM. NEITHER THE ZACK PROJECT MANAGER NOR THE FOREMAN KNEW WHAT A PITTSBURGH SEAM WAS. IT WASN'T BEING USED. THE FOREMAN AND THE PROJECT MANAGER TOLD ME TO DROP THE SUBJECT BECAUSE THEY WOULD TAKE CARE OF IT. IT DON'T KNOW IF THEY EVER DID. THIS ITEM CLOSED BASED ON AUGUST 4, 1983 SWORN STATEMENT OF INDIVIDUAL C (PAGES 33-37). PITTSBURGH SEAM WAS NOT USED IN SAFETY RELATED APPLICATIONS.</p> | | | | | |
| 330/82#03-07 | INDIVIDUAL C | ALLEGATION | MIDLAND 2 | | | HAWKINS | 83-08 |
| | | <p>QC WAS SUPPOSED TO CONDUCT INDEPENDENT INSPECTIONS OF INSTALLED HVAC UNITS TO VERIFY THAT UNITS NOT YET INSTALLED WERE KEPT COVERED AND CLEAN AS REQUIRED. INSTEAD WE JUST COPIED THE MAINTENANCE SUPERVISOR'S RECORDS WITHOUT PERFORMING INSPECTIONS. THIS ITEM CLOSED BASED ON AUGUST 4, 1983 SWORN STATEMENT OF INDIVIDUAL C (PAGES 37-50). THIS ALLEGATION WAS CATEGORIZED AS AN UNDEFINED CONCERN (I.E. LACK OF SPECIFICITY) AND WAS ADDRESSED UNDER THE FIVE PHASE PROGRAM IN REPORT 83-08.</p> | | | | | |
| 330/82#03-08 | INDIVIDUAL C | ALLEGATION | MIDLAND 2 | | | HAWKINS | 83-08 |
| | | <p>ZACK WELDERS STARTED DOING ARC-BRAZING WELDS BEFORE A PROCEDURE WAS DEVELOPED TO COVER BRAZING REQUIREMENTS OR WELDER QUALIFICATION REQUIREMENTS FOR BRAZING. QC DID STOP THE WORK AND PUT HOLDS ON ALL WORK ALREADY DONE. FINALLY ZACK CAME UP WITH A PROCEDURE AND HAD THE WELDERS TESTED AND QUALIFIED. THIS ITEM CLOSED BASED ON AUGUST 4, 1983 SWORN STATEMENT OF INDIVIDUAL C (PAGES 50-55) AND REPORT 83-08 SECTIONS I AND II.</p> | | | | | |

COMPLETE LISTING

| ITEM | INSPECTOR/ MODULE NO. | ITEM TYPE/ BRIEF DESCRIPTION | FACILITY NAME | LICENSEE DESIGNATED NO. | INTERIM INSPECTION ASSIGNED | CLOSEOUT REPORT NO. | RESOLUTION |
|--------------|--------------------------|---|---------------|----------------------------|--------------------------------|------------------------|------------|
| 338/82#03-09 | INDIVIDUAL C | ALLEGATION THERE WERE MANY BAD WELDS IN THE CONTROL ROOM CLASS I HVAC DUCTWORK WITH DEFECTS SUCH AS BLOW HOLES AND EXCESSIVE POROSITY. SOME WELDS WERE BARELY ACCESSIBLE. IF AT ALL, I DON'T KNOW IF, OR HOW, THEY WERE ALL RECHECKED. QC INSPECTORS FOUND FIVE OR SIX BAD WELDS ON ONE PIECE OF DUCTWORK. THE FOREMAN DIDN'T WANT TO CUT THE PART OUT AND REPLACE IT BECAUSE THAT WOULD BE TOO MUCH WORK. I DON'T KNOW IF THE PIECE WAS EVER REPAIRED OR REPLACED. REFER TO SWORN STATEMENT OF INDIVIDUAL C (PAGES 55-62) AND REPORT 83-08 SECTIONS I AND II. THIS ALLEGATION WAS CATEGORIZED AS AN UNDEFINED CONCERN (I.E. LACK OF SPECIFICITY) AND WAS ADDRESSED UNDER THE FIVE PHASE PROGRAM IN REPORT 83-08. | MIDLAND 2 | | HAWKINS | 83-08 | |
| 338/82#03-10 | INDIVIDUAL C | ALLEGATION IN THE EARLY SUMMER OF 1979 THERE WAS NO CONTROL OVER THE USE OF WELD RODS. WORKERS JUST GRABBED AS MANY RODS AS THEY WANTED BY THE HANDFUL AND DROPPED THEM OFF LATER. THERE WERE NO SIGNS OR SIGN-OUTS. INSPECTORS WOULD FIND THE RODS LYING IN THE FIELD ALONG WITH THE ROD STUBS AND HALF USED PIECES. THE WELD ROD CONTROL PROCEDURE WAS SUBSEQUENTLY REVISED AND ENFORCED. REFER TO SWORN STATEMENT OF INDIVIDUAL C (PAGES 62-66) AND REPORT 83-88 SECTIONS II, III, AND V. THIS ALLEGATION WAS CATEGORIZED AS AN UNDEFINED CONCERN (I.E. LACK OF SPECIFICITY) AND WAS ADDRESSED UNDER THE FIVE PHASE PROGRAM IN REPORT 83-08. | MIDLAND 2 | | HAWKINS | 83-08 | |
| 338/82#03-11 | INDIVIDUAL C | ALLEGATION IN SOME CASES THE QC INSPECTORS SAID THERE WAS NO DOCUMENTATION THAT THE ANCHOR BOLTS FOR THE HVAC SYSTEM WERE EITHER TORQUED AT ALL OR TORQUED WITH A CALIBRATION TORQUE WRENCH. SOME OF THE BOLTS IN QUESTION WERE NO LONGER ACCESSIBLE. QC W'NT BACK AND TORQUED AND DOCUMENTED AS MANY AS THEY COULD REACH BUT I DON'T KNOW WHAT HAPPENED TO THE REST. REFER TO SWORN STATEMENT OF INDIVIDUAL C (PAGES 66-74) AND REPORT 83-88 SECTION I AND II. | MIDLAND 2 | | HAWKINS | 83-08 | |

COMPLETE LISTING

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|---------------------------|--------------------------|--|---------------|----------------------------|--------------------------------|------------------------|------------|
| 338/82#03-12 | INDIVIDUAL C | ALLEGATION A GC MANUAL WAS SO VAGUE IT WAS USELESS. THE MANUAL WAS REVISED IN OCTOBER 1979. I DO NOT KNOW IF THE PREVIOUS INSPECTION REPORTS DONE UNDER UNRELIABLE GC INSPECTION STANDARDS WERE RECHECKED TO SEE IF THE EARLIER TESTS HAD MISSED PROBLEMS. REFER TO SWORN STATEMENT OF INDIVIDUAL C (PAGES 74-77) AND REPORT 83-88 SECTIONS II, III AND V. THIS ALLEGATION WAS CATEGORIZED AS AN UNDEFINED CONCERN (I.E. LACK OF SPECIFICITY) AND WAS ADDRESSED UNDER THE FIVE PHASE PROGRAM IN REPORT 83-88. | MIDLAND 2 | | HAWKINS | 83-88 | |
| 338/82#03-13 | INDIVIDUAL C | ALLEGATION I WAS INFORMED THAT THE TESTING PROCEDURES UNDER WHICH INSPECTORS WERE QUALIFIED WERE NOT GOOD ENOUGH TO COVER THE KEY SKILLS. I UNDERSTAND THAT THE REQUIREMENTS HAVE BEEN REVISED, BUT AGAIN, UNQUALIFIED INSPECTORS MAY HAVE MISSED QUALITY FLAWS FOR A LONG TIME. REFER TO SWORN STATEMENT OF INDIVIDUAL C (PAGES 77-84) AND REPORT 83-88 SECTIONS II, III, AND V. THIS ALLEGATION WAS CATEGORIZED AS AN UNDEFINED CONCERN (I.E. LACK OF SPECIFICITY) AND WAS ADDRESSED UNDER THE FIVE PHASE PROGRAM IN REPORT 83-88. | MIDLAND 2 | | HAWKINS | 83-88 | |
| 338/82#03-14 | INDIVIDUAL C | ALLEGATION DUE TO SCHEDULING PRESSURES NONCONFORMING HVAC DUCTWORK WAS INSTALLED IN THE PLANT. THE ASK CHICAGO Q1 MANAGER AND VICE PRESIDENT SAW THE DUCTWORK AND LET IT GO TO THE FIELD. THIS REFER TO SWORN STATEMENT OF INDIVIDUAL C (PAGES 84-94) AND REPORT 83-88, SECTIONS I, II, III, IV, AND V. THIS ALLEGATION WAS CATEGORIZED AS AN UNDEFINED CONCERN (I.E. LACK OF SPECIFICITY) AND WAS ADDRESSED UNDER THE FIVE PHASE PROGRAM IN REPORT 83-88. | MIDLAND 2 | | HAWKINS | 83-88 | |

| ITEM | RESOLUTION | | | | | | |
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| 330/82#03-15 | INDIVIDUAL C | ALLEGATION THERE IS STRONG RESENTMENT AGAINST RECHTEL AND ZACK GC AT MIDLAND. INSPECTORS ARE REFERRED TO AS TROUBLEMAKERS OR AS A JOKE. GC SUPERVISOR FORCED OUT AFTER TRYING TO MAKE GC STRONGER. REFER TO SWORN STATEMENT OF INDIVIDUAL C (PAGES 94-97). THIS ALLEGATION WAS CATEGORIZED AS AN UNDEFINED CONCERN (I.E. LACK OF SPECIFICITY) AND WAS ADDRESSED UNDER THE FIVE PHASE PROGRAM IN REPORT 83-08. | MIDLAND 2 | | | HAWKINS | 83-08 |
| 330/82#06-01 | INDIVIDUAL F | ALLEGATION IN THE INTRODUCTION TO THE INVESTIGATION (NRC INSPECTION REPORT ON ZACK) THE LIST OF DOCUMENTS APPLICABLE TO THE HYAC ACTIVITIES FAILED TO INCLUDE THE AMERICAN WELDING SOCIETY (AWS) D-19 CODES REFERENCING THE WELDING OF GALVANIZED STEEL. HE BELIEVES THAT THIS SHOULD HAVE BEEN CHECKED BECAUSE THE AWS CODES PROVIDE THE GALVANIZED STEEL WELDING REQUIREMENTS THAT SHOULD HAVE BEEN ENFORCED. CLOSED IN REPORT 83-08 (REFERENCE INTRODUCTION SECTION AND SECTION I) IND. F. WAS NOT SATISFIED WITH THE RESULTS OF 80-101 80-11. CLOSEOUT AND RESOLUTION OF CONCERNS ARE DOCUMENTED IN REPORTS 80-21, 80-22, 80-23, 80-24, 80-26, 80-27, AND 82-15, 82-15, INDIVIDUAL F'S AFFIDAVIT SENT TO OIA ON AUGUST 9, 1983. | MIDLAND 2 | | | HAWKINS | 83-08 |
| 330/82#06-02 | INDIVIDUAL F | ALLEGATION HE BELIEVES THAT THERE IS SOMETHING SIGNIFICANTLY MISSING IN THE DISCUSSION OF ALLEGATION ONE (NRC INSPECTION REPORT ON ZACK) ABOUT THE TRAVELERS FROM CHICAGO NOT BEING ANNOTATED TO SHOW WHETHER OR NOT THEY WERE SCRAP. HE DISCOVERED THAT ALL SCRAPPED PARTS WERE NOT ACTUALLY DISCARDED. HE BELIEVES THAT MEANT THAT EVEN DEFECTIVE PARTS WERE BEING USED TO BUILD THE PLANT. RESOLUTION SAME AS 82#06-01. | MIDLAND 2 | | | HAWKINS | 83-08 |

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| 330/82#06-03 | INDIVIDUAL F | ALLEGATION | MIDLAND 2 | | | HAWKINS | 83-08 |
| | | <p>IN THE FINDING OF ALLEGATION ONE HE HAS SIGNIFICANT DISCREPANCIES WITH THE INVESTIGATORS, TO THE BEST OF HIS KNOWLEDGE THE INITIALING OF THE LEFT-SIDE OF THE TRAVELER WAS NEVER A PART OF THE QC PROCEDURE UNTIL AFTER HE INITIATED THE ORIGINAL ALLEGATIONS. HE BELIEVES THE POST-INITIALING OF THE TRAVELERS DOES NOT CONSTITUTE A CONFIRMATION OF CURRENT ACCURACY IN THE TRAVELERS. RESOLUTION SAME AS 82#06-01.</p> | | | | | |
| 330/82#06-04 | INDIVIDUAL F | ALLEGATION | MIDLAND 2 | | | HAWKINS | 83-08 |
| | | <p>HE BELIEVES THAT CONTRARY TO THE NRC INSPECTION REPORT ON ZACK, CHICAGO PAINTED WELDS WERE COMPLETELY COVERED WITH THICK PAINT AND THAT THE PAINT OR LACK OF IT WAS A RELIABLE FACTOR IN DETERMINING THE SITE OF FABRICATION AND QUESTIONABLE DUCT PIECES. HE BELIEVES THIS MEANS THAT ZACK WAS ABLE TO MAKE PIECES AT THEIR LEISURE WITHOUT TRACEABILITY OR QC INSPECTIONS. RESOLUTION SAME AS 82#06-01.</p> | | | | | |
| 330/82#06-05 | INDIVIDUAL F | ALLEGATION | MIDLAND 2 | | | HAWKINS | 83-08 |
| | | <p>HE BELIEVES THAT ANOTHER SPECIFIC EXAMPLE OF OVERSIGHT IN THE NRC INSPECTION REPORT ON ZACK IS THE LACK OF FINDING FOR TRAVELER NUMBER V03-420-F10171. HE CONTENDS THAT IT IS DIFFICULT TO UNDERSTAND WHY THE NRC WOULD ACCEPT THE WORD OF ZACK OVER THE BLACK AND WHITE DOCUMENT PROVIDED BY THEM. HE ALSO QUESTIONS WHETHER THE ITEM V03-5M2-2-F9437 WAS ACTUALLY PHYSICALLY SCRAPPED AND THE DATE IT WAS SCRAPPED. RESOLUTION SAME AS 82#06-01.</p> | | | | | |

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|---------------------------|--------------------------|--|---------------|----------------------------|---------------------------|-----------------------|------------------------|
| 330/82006-06 | INDIVIDUAL F | ALLEGATION CONCERNING THE FINDING ON ALLEGATION NUMBER 4 PERTAINING TO TRAVELER NUMBER V27-SM3A-29-F4410 (NRC INSPECTION REPORT ON ZACK) HE CONTENDS THAT IN THE LIGHT OF ZACK'S RAMPANT MISLEADING STATEMENTS TO THE NRC AND CONSUMERS POWER CO., IT IS CURIOUS TO NOTE THAT NO FURTHER VERIFICATION WAS MADE, OTHER THAN A PAPERWORK REVIEW, TO INSURE THAT THE ITEM WAS IN FACT RETURNED. HE KNOWS PERSONALLY THAT THE ITEM WAS NOT RETURNED. RESOLUTION SAME AS 82006-01. | MIDLAND 2 | | | HARKINS | 83-08 |
| 330/82006-07 | INDIVIDUAL F | ALLEGATION IT IS HIS UNDERSTANDING THAT CONSUMERS POWER COMPANY HAD DECIDED TO FORGET OR IGNORE THE UNRESOLVED ITEMS REFERENCED IN WCAR MO-1 (NRC INSPECTION REPORT ON ZACK). HE BELIEVES THAT A LETTER SENT TO ZACK FROM CP&D IN MID-FEBRUARY CONGRATULATING THEM ON A CLEAN BILL OF HEALTH AND AUTHORIZING ZACK TO CONTINUE UNFETTERED WITH THEIR OWN REPAIR PROGRAM. HE REMAINS UNCONVINCED THAT 100% OF ALL ZACK WELDS WERE REINSPECTED. RESOLUTION SAME AS 82006-01. | MIDLAND 2 | | | HARKINS | 83-08 |
| 330/82006-08 | INDIVIDUAL F | ALLEGATION ON TRAVELER NUMBER V26-SM28-46,1-1515 HE DOES NOT SEE WHERE THE DEEPER PROBLEM EVIDENT FROM THE NRC FINDING IS ADDRESSED BY THE NRC INSPECTION REPORT ON ZACK. HE SAYS THAT IT APPEARS THAT ZACK OPERATED UNDER THE ASSUMPTION THAT FIELD TESTING FOR GAS TIGHTNESS WOULD PRECLUDE VISUAL INSPECTION. HE SAYS THIS IS NOT ALLOWED PER APPLICABLE CODES AND IT IS IMPOSSIBLE TO PERFORM 100% INSPECTION AFTER INSTALLATION. RESOLUTION SAME AS 82006-01. | MIDLAND 2 | | | HARKINS | 83-08 |

COMPLETE LISTING

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| 338/82886-09 | INDIVIDUAL F | ALLEGATION HE HAS A SIGNIFICANT DISCREPANCY WITH ITEM 51A) (ALLEGATION 5) IN NRC INSPECTION REPORT ON ZACK, IT IS PRACTICALLY IMPOSSIBLE TO HAVE THE IDENTICAL SAME MATERIAL AVAILABLE FOR ONSITE REPAIR AS FOR THE ORIGINATOR OF THE ITEM, EVEN IF REPAIRS WERE EXACTLY ACCORDING TO PROCEDURE A DIFFERENCE WOULD COME WITH INDIVIDUAL WELDERS DOING THE REPAIRS, MATERIAL TRACEABILITY AND REQUIREMENT FOR REGULAR INSPECTORS AFTER CERTAIN PHASES OF REPAIR IS LOST. RESOLUTION SAME AS 82886-01. | MIDLAND 2 | | HARRKINS | 83-08 |
| 338/82886-10 | INDIVIDUAL F | ALLEGATION HE SAYS THAT IN ITS CONCLUSION OF FINDING FOR ALLEGATION 10 THE NRC BLATENTLY DISREGARDS THE REQUIREMENTS FOR MATERIAL TRACEABILITY AND DOCUMENTATION, INRC INSPECTION REPORT ON ZACK). RESOLUTION SAME AS 82886-01. | MIDLAND 2 | | HARRKINS | 83-08 |
| 338/82886-11 | INDIVIDUAL F | ALLEGATION HE SAYS THAT THE NRC WAS INCORRECT IN THE FINDING ON ALLEGATION 51D) FOR WHICH CPCO PAID 350V DOLLARS FOR NOT HAVING CARBON DIOXIDE AVAILABLE FOR USE AS A SHIELDED GAS, HE BELIEVES THAT CARBON DIOXIDE WAS ALWAYS AVAILABLE ON THE SITE, RESOLUTION SAME AS 82886-01. | MIDLAND 2 | | HARRKINS | 83-08 |
| 338/82886-12 | INDIVIDUAL F | ALLEGATION REGARDING ALLEGATION 13 (NRC REPORT ON ZACK) HE SAYS THE NRC COMPLETELY FAILS TO ADDRESS THE FACT THAT ALL ASPECTS OF REPAIR ARE NOT DOCUMENTED WITH RESPECT TO INDIVIDUAL TRAVELERS, HE SAYS THAT A NONCONFORMANCE REPORT OR HOLD REPORT IN NO WAY SUBSTITUTES THE REQUIREMENT FOR NOTATION OF REPAIRS ON EACH COMPONENT'S DOCUMENT, RESOLUTION SAME AS 82886-01. | MIDLAND 2 | | HARRKINS | 83-08 |

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|-----------------------|-----------------------|--|---------------|-------------------------|-----------------------------|---------------------|------------|
| 338/82808-13 | INDIVIDUAL F | ALLEGATION REGARDING ALLEGATION 15 HE HAS CONCERNS WITH STATEMENTS ABOUT THE WELDING ROD ISSUE ROOM INRC REPORT ON ZACKI. HE SAYS THAT THE ROOM WAS NOT LOCKED DURING THE MAJORITY OF THE TIME HE WORKED THERE. WELDING RODS WERE TAPPED ONLY AFTER NRC CAME TO INVESTIGATE HIS ALLEGATIONS. HE SEES OBVIOUS CONTRADICTIONS BETWEEN THE NRC'S OWN FINDING ABOUT THE WELDING ROD SITUATION, HIS PERSONAL OBSERVATIONS, AND WITH LATER NRC REPORT STATEMENTS. RESOLUTION SAME AS 82806-01 | MIDLAND 2 | | HARRKINS | 83-88 | |
| 338/82808-14 | INDIVIDUAL F | ALLEGATION HE SAYS THAT THE NRC REPORT FAILED TO MENTION RON COOK'S STATEMENT TO ME THAT APPROXIMATELY 18,000 POUNDS OF NONCONFORMING 78-18 ROD HAD BEEN RECEIVED AND THAT THE ONLY EXPLANATION OFFERED BY ZACK WAS THAT THE ROD HAD ALL BEEN THROWN AWAY. HE DOES NOT CONSIDER THIS AN ACCEPTABLE RESPONSE TO ALLEGATION 15. RESOLUTION SAME AS 82806-01. | MIDLAND 2 | | HARRKINS | 83-88 | |
| 338/82808-15 | INDIVIDUAL F | ALLEGATION HE SAYS THAT THE NRC, IN THE PROBLEM SURROUNDING RUSKIN FIRE DAMPERS (ALLEGATION 16), FAILED TO REALIZE THAT REQUIRED INDIVIDUAL SERIAL NUMBERS ARE NON-EXISTENT ON THE ACTUAL FIRE DAMPERS. RESOLUTION SAME AS 82806-01. | MIDLAND 2 | | HARRKINS | 83-88 | |
| 338/82808-16 | INDIVIDUAL F | ALLEGATION IN REGARDS TO ALLEGATION 20 HE FOUND NOTHING IN THE FINDING INRC REPORT ON ZACKI FOR THIS ALLEGATION TO INDICATE THAT A CHECK WAS MADE TO ASSURE INACCURATE TRAVELERS WERE NOT BEING REPLACED ASIDE FROM ASKING THREE MENTIONED INSPECTORS. HE BELIEVES A SIMPLE REVIEW WOULD REVEAL THE CONTRARY. HE IS ALSO CONCERNED ABOUT MATERIAL TRACEABILITY OF NEW MATERIAL AND WELDER IDENTIFICATION. RESOLUTION SAME AS 82806-01. | MIDLAND 2 | | HARRKINS | 83-88 | |

REGION III TRACKING SYSTEM
 MIDLAND - ALLEGATIONS, INDIVIDUALS C, F, H, M, N, O, R, X, Y, Z, AND CC, ONE COPY FOR R, SPESSARD UPDATED 2/28/84

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| ITEM | INSPECTOR/ MODULE NO. | ITEM TYPE/ BRIEF DESCRIPTION | FACILITY NAME | LICENSEE DESIGNATED NO. | INTERIM INSPECTION ASSIGNED | CLOSEOUT REPORT NO. |
|--------------|--------------------------|---|---------------|----------------------------|--------------------------------|------------------------|
| 338/82008-17 | INDIVIDUAL F | ALLEGATION REBARKING ALLEGATION 21, CONCERNING PORTABLE WELD ROD CARRIER CALIBRATION STICKERS, HE BELIEVES THAT THE FINDING INRC REPORT ON ZACK1 DID NOT REVEAL THE FACT THAT THE EQUIPMENT FOR CALIBRATION ANY OF THE CARRIERS WAS INSUFFICIENT, HE CONSIDERS ANY AND ALL SUCH UNITS TO THUS BE OUT OF CALIBRATION, RESOLUTION SAME AS 82008-01. | MIDLAND 2 | | HARKINS | 83-08 |
| 338/82008-18 | INDIVIDUAL F | ALLEGATION HE SAYS THAT THE INRC REPORT ON ZACK DOES NOT MENTION HOW OR IF THE ANGLE IRON DIMENSION DISCREPANCIES FOR PART NUMBER F-916, VI-3 HAVE BEEN RESOLVED, RESOLUTION SAME AS 82008-01. | MIDLAND 2 | | HARKINS | 83-08 |
| 338/82008-19 | INDIVIDUAL F | ALLEGATION HE SAYS THAT IN REBARKS TO ALLEGATION 18 THE INRC OVERLOOKED THE FACT THAT A COPY OF THE AUDIT TO BE PERFORMED WAS SENT TO MIDLAND SEVERAL DAYS BEFORE THE ACTUAL AUDIT TOOK PLACE, (INRC REPORT ON ZACK), RESOLUTION SAME AS 82008-01. | MIDLAND 2 | | HARKINS | 83-08 |
| 338/82008-01 | INDIVIDUAL H | ALLEGATION CONSUMERS POWER (BECHTEL) WAS NOTIFIED OF ZACK INCONSISTENCIES BY LETTER DATED AUGUST 28, 1981 (7228-W-151), CALKINS TO DAVIS, RE: CORRECTIVE ACTION REQUEST (CAR) 814, (EXHIBIT 2), SEE REPORT 83-08 SECTION I FOR RESOLUTION (58,551E) VIOLATION, INDIVIDUAL M+S AFFIDAVIT AND SWORN STATEMENT SENT TO OIA AND OI ON AUG. 9/31 AND AUG. 30, 1983, RESPECTIVELY. | MIDLAND 2 | | HARKINS | 83-08 |

| ITEM | | | | | | RESOLUTION | |
|---------------------------|--------------------------|---|---------------|----------------------------|-----------------------|-----------------------|------------------------|
| ITEM NO./ RESPONSE DUE | INSPECTOR/ MODULE NO. | ITEM TYPE/ BRIEF DESCRIPTION | FACILITY NAME | LICENSEE DESIGNATED NO. | INTERIM INSPECTION | INSPECTOR ASSIGNED | CLOSEOUT REPORT NO. |
| 330/82#08-02 | INDIVIDUAL H | ALLEGATION MIDLAND QA CONTRACT EMPLOYEE DIRECTED PERSONNEL TO SIGN TRAINING FORM. PERSONNEL CLAIMED THEY RECEIVED NO TRAINING. (EXHIBIT 5) (CHECK APPLICABILITY OF THIS TO ZACK SITE PERSONNEL). (EXHIBIT 5). SEE REPORT C99900785/82-02 (RIV) ALLEGATIONS 2 AND 4 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | MIDLAND 2 | | | RIV | 82-02 |
| 330/82#08-03 | INDIVIDUAL H | ALLEGATION CATEGORIZATION OF MAJOR DISCREPANCIES IN INTERIM REPORT 10-02-81 TO BECHTEL (7220-M-151-C/B-548) ON 10-09-81 (EXHIBIT 6.A) AND (EXHIBIT 7). RESOLUTION SAME AS 82#08-01. | MIDLAND 2 | | | HAWKINS | 83-08 |
| 330/82#08-04 | INDIVIDUAL H | ALLEGATION THIRD INTERIM REPORT ON DISCREPANCIES (10-23-81) SENT TO BECHTEL 10-23-81 (7220-M-151-C/B-552). (EXHIBIT 8) PGS. 3, 6, 9, 12, AND 15. RESOLUTION SAME AS 82#08-01. | MIDLAND 2 | | | HAWKINS | 83-08 |
| 330/82#08-05 | INDIVIDUAL H | ALLEGATION QUESTIONABLE BECHTEL ENGINEERING ANALYSIS OF ZACK DISCREPANCIES. LETTER DAVIS TO GREUNE, 12-21-81. (EXHIBIT 11). RESOLUTION SAME AS 82#08-01. | MIDLAND 2 | | | HAWKINS | 83-08 |
| 330/82#08-06 | INDIVIDUAL H | ALLEGATION INDIVIDUAL STATED THAT CALKINS HAD CALLED M. LEONARD AT MIDLAND (PG 14 OF AFFIDAVIT). RESOLUTION SAME AS 82#08-01. | MIDLAND 2 | | | HAWKINS | 83-08 |

MIDLAND - ALLEGATIONS, INDIVIDUALS C, F, H, M, N, O, R, X, Y, Z, AND CC, ONE COPY FOR R. SPESSARD
COMPLETE LISTING

UPDATED 2/28/84

| ITEM | | | | RESOLUTION | | | |
|---------------------------|--------------------------|--|---------------|----------------------------|-----------------------|-----------------------|------------------------|
| ITEM NO./ RESPONSE DUE | INSPECTOR/ MODULE NO. | ITEM TYPE/ BRIEF DESCRIPTION | FACILITY NAME | LICENSEE DESIGNATED NO. | INTERIM INSPECTION | INSPECTOR ASSIGNED | CLOSEOUT REPORT NO. |
| 330/82#08-07 | INDIVIDUAL M | ALLEGATION | MIDLAND 2 | | | HAWKINS | 83-08 |
| | | BECHTEL HAD KNOWLEDGE OF ZACK MATERIAL BEING SHIPPED TO THE SITE IN NONCONFORMING CONDITION. LETTER DAVIS TO EICHSTAEDT, 11-05-80 (EXHIBIT 15). RESOLUTION SAME AS 82#08-01. | | | | | |
| 330/82#08-08 | INDIVIDUAL M | ALLEGATION | MIDLAND 2 | | | RIV | 82-02 |
| | | EXAMPLES OF FALSIFIED TEST REPORTS, ONE COPY PRIOR TO FALSIFICATION, ONE COPY AFTER. STICKERS WERE DATED 11-06-80 BUT REQUEST FOR U.S. STEEL TO UPGRADE TEST REPORTS NOT MADE BEFORE 01-23-81. (EXHIBIT 17) (EXHIBIT 16). SEE REPORT C99900785/82-02 (RIV) ALLEGATIONS 8, 9, AND 10 FOR RESOLUTION. ALSO OI REPORT 3-83-025. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | | | | | |
| 330/82#08-09 | INDIVIDUAL M | ALLEGATION | MIDLAND 2 | | | RIV | 82-02 |
| | | U. S. STEEL LETTER PETERS TO HAGEN, 09-21-81, IDENTIFYING 26 PO'S THAT WERE NOT ORIGINALLY ORDERED "SAFETY-RELATED". (EXHIBIT 20). SEE REPORT C99900785/82-02 (RIV) ALLEGATION 11 AND RIII REPORT 83-08 SECTIONS IV AND V FOR RESOLUTION. NRC MATERIAL TESTING INCLUDED SIX SAMPLES OF U.S. STEEL MATERIAL. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | | | | | |
| 330/82#08-10 | INDIVIDUAL M | ALLEGATION | MIDLAND 2 | | | HAWKINS | 83-08 |
| | | ZACK AUDIT OF EDGEComb METALS IDENTIFIES UNACCEPTABLE QA PROGRAM (EXHIBIT 21). DETERMINE IF EDGEComb PRODUCTS WERE USED AT MIDLAND. SEE ALSO EXHIBITS 43, NRC ID02. SEE REPORT 83-08 SECTIONS IV AND V. NRC MATERIAL TESTING INCLUDED 10 SAMPLES OF EDGEComb MATERIAL. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | | | | | |

MIDLAND - ALLEGATIONS, INDIVIDUALS C, F, H, M, N, O, R, X, Y, Z, AND CC; ONE COPY FOR R. SPESSARD
COMPLETE LISTING

UPDATED 2/25/84

| ITEM | | | | RESOLUTION | | | |
|---------------------------|--------------------------|---|---------------|----------------------------|-----------------------|-----------------------|------------------------|
| ITEM NO./ RESPONSE DUE | INSPECTOR/ MODULE NO. | ITEM TYPE/ BRIEF DESCRIPTION | FACILITY NAME | LICENSEE DESIGNATED NO. | INTERIM INSPECTION | INSPECTOR ASSIGNED | CLOSEOUT REPORT NO. |
| 330/82#08-11 | INDIVIDUAL M | ALLEGATION | MIDLAND 2 | | | RIV | 82-02 |
| | | ZACK REMOVES DELTA SCREW (DS) COMPANY FROM APPROVED VENDOR LIST ON 10-20-81 (EXHIBIT 24) HOWEVER, 38 PDS SENT TO DS DURING THE TIME THEY WERE SUPPOSEDLY REMOVED FROM LIST. (EXHIBIT 25). DETERMINE IF DS MATERIAL WAS USED AT MIDLAND. SEE REPORT C99900785/82-02 (RIV) ALLEGATIONS 7 AND 13 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | | | | | |
| 330/82#08-12 | INDIVIDUAL M | ALLEGATION | MIDLAND 2 | | | RIV | 82-02 |
| | | QUALIFICATIONS OF ZACK QA/QC PERSONNEL QUESTIONABLE (EXHIBIT 26). DETERMINE IF ZACK PERSONNEL AT MIDLAND ARE QUALIFIED. SEE REPORT C99900785/82-02 (RIV) ALLEGATIONS 2 AND 4 FOR RESOLUTION. ALSO REPORT 83-08 SECTIONS II AND III. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | | | | | |
| 330/82#08-13 | INDIVIDUAL M | ALLEGATION | MIDLAND 2 | | | RIV | 82-02 |
| | | CERTIFICATION OF TEST RESULTS (EXHIBIT 27A) ENSURES MATERIAL ORDERED ON PO C-1253 WAS SUBJECT TO TESTING. PO C-1253 IS ON U.S.S. LIST AS NON SR (EXHIBIT 20). SEE REPORT C99900785/82-02 (RIV) ALLEGATION 11 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | | | | | |
| 330/82#08-14 | INDIVIDUAL M | ALLEGATION | MIDLAND 2 | | | RIV | 82-02 |
| | | ZACK PRESIDENT DOES QA REVIEW (EXHIBIT 27A AND B) 02-23-81. NOT TRAINED UNTIL 08-31-81 (EXHIBIT 28). SEE REPORT C99900785/82-02 (RIV) ALLEGATION 4 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | | | | | |

MIDLAND - ALLEGATIONS, INDIVIDUALS C, F, H, N, O, R, X, Y, Z, AND CC, ONE COPY FOR R, SPESSARD
COMPLETE LISTING

UPDATED 2/28/84

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| ITEM NO./ RESPONSE DUE | INSPECTOR/ MODULE NO. | ITEM TYPE/ BRIEF DESCRIPTION | FACILITY NAME | LICENSEE DESIGNATED NO. | INTERIM INSPECTION | INSPECTOR ASSIGNED | CLOSEOUT REPORT NO. |
| 330/82#08-15 | INDIVIDUAL H | ALLEGATION | MIDLAND 2 | | | HAWKINS | 83-08 |
| | | MIDLAND MEETING NOTES OF 11-03-81 (EXHIBIT 29). DETERMINE IF ALL COMMITMENTS WERE MET. RESOLUTION SAME AS 82#08-01. | | | | | |
| 330/82#08-16 | INDIVIDUAL H | ALLEGATION | MIDLAND 2 | | | RIV | 82-02 |
| | | DELTA SCREW MATERIAL IDENTIFIED AS NONCONFORMING C4286-NCR Q-112, C4484-NCR-M-110. NO MARKS ON BOLTHEADS TO IDENTIFY MANUFACTURER. BECHTEL CLEARED FOR USE WITHOUT BASIS (EXHIBIT 20A, B, C), (EXHIBIT 31), AND (EXHIBIT 32). SEE REPORT C99900785/82-02 (RIV) ALLEGATION 7 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | | | | | |
| 330/82#08-17 | INDIVIDUAL H | ALLEGATION | MIDLAND 2 | | | HAWKINS | 83-08 |
| | | REVIEW CPCO INVESTIGATION (APRIL 15, 1980) OF ALLEGERS' ALLEGATIONS FOR CREDIBILITY. SEE REPORT 83-03 (BACKGROUND AND METHODOLOGY SECTIONS AND AUGUST 30, 1983 LETTER TO OI FROM DE. THIS ITEM IS RELATED TO OI INVESTIGATIONS OF INDIVIDUALS WRONGFUL FIRING (3-82-057). | | | | | |
| 330/82#08-18 | INDIVIDUAL H | ALLEGATION | MIDLAND 2 | | | RIV | 82-02 |
| | | DETERMINE IF WELDSTAR WAS INVOLVED IN SUPPLYING WELD MATERIAL TO MIDLAND. (EXHIBIT 41). IF SO, DETERMINE IF CERTS EXIST FOR MATERIAL PURCHASED IN 1978 OR PRIOR TO THAT DATE. SEE REPORT C99900785/82-02 (RIV) ALLEGATION 10 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | | | | | |

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| 330/82#08-19 | INDIVIDUAL M | ALLEGATION ZACK AUDIT IZC/81-7 (09-10-81) IDENTIFIES SIGNIFICANT QA BREAKDOWN (EXHIBIT 42). DETERMINE APPLICABILITY TO MIDLAND. RESOLUTION SAME AS 82#08-01. (BASIS FOR ZACK'S AUG. 28, 1981 LETTER TO MIDLAND ON CERTIFICATION DEFICIENCIES). | MIDLAND 2 | | | RIV | 82-02 |
| 330/82#08-20 | INDIVIDUAL M | ALLEGATION REVIEW NRC Q111 WRITTEN ON C4406 FOR POSSIBLE FALSIFICATION AND APPLICABILITY TO MIDLAND (EXHIBIT 43, NRC ID 01). SEE REPORT C99900785/82-02 (RIV) ALLEGATION 7 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | MIDLAND 2 | | | RIV | 82-02 |
| 330/83#03-01 | INDIVIDUAL M | ALLEGATION CMTRS WERE ALTERED TO RESOLVE THE LACK OF PROPERLY REFERENCED STANDARDS AND MISSING AUTHENTICATION SIGNATURE. THESE DOCUMENT ALTERATIONS WERE IDENTIFIED IN THE INTERIM REPORTS ZACK SUPPLIED TO THE UTILITIES FOR A SIGNIFICANT EVENT DISCLOSURE. HE WOULD RATHER CLASSIFY THE ALTERATIONS AS FORGERIES. SEE REPORT C99900785/82-02 (RIV) ALLEGATIONS 8 AND 9 AND 01 REPORT 3-82-025 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | MIDLAND 2 | | | RIV | 82-02 |
| 330/83#03-02 | INDIVIDUAL M | ALLEGATION SCATTERED AND MISSING PURCHASE ORDERS AND RELATED DOCUMENTATION WERE CONTINUALLY INCLUDED IN THE PURCHASE ORDER FOLDERS WITHOUT BEING LOGGED INTO THE DOCUMENT CONTROL LOG BOOK AS REQUIRED. SEE REPORT C99900785/82-02 (RIV) ALLEGATION 5 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | MIDLAND 2 | | | RIV | 82-02 |

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| ITEM | | | | RESOLUTION | | | |
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| ITEM NO./ RESPONSE DUE | INSPECTOR/ MODULE NO. | ITEM TYPE/ BRIEF DESCRIPTION | FACILITY NAME | LICENSEE DESIGNATED NO. | INTERIM INSPECTION | INSPECTOR ASSIGNED | CLOSEOUT REPORT NO. |
| 330/83#03-03 | INDIVIDUAL M | ALLEGATION PURCHASE ORDERS WERE INCOMPLETE. SEE REPORT C99900785/82-02 (RIV) ALLEGATION 11 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | MIDLAND 2 | | | RIV | 82-02 |
| 330/83#03-04 | INDIVIDUAL M | ALLEGATION INABILITY OF SUBTIER VENDORS TO SUPPLY MISSING INFORMATION. SEE REPORT C99900785/82-02 (RIV) ALLEGATIONS 6,7,10 AND 11 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | MIDLAND 2 | | | RIV | 82-02 |
| 330/83#03-05 | INDIVIDUAL M | ALLEGATION AN APPROVED VENDORS LIST THAT FAILED TO REFLECT ZACK'S PURCHASING PRACTICES. SEE REPORT C99900785/82-02 (RIV) ALLEGATIONS 12 AND 13 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | MIDLAND 2 | | | RIV | 82-02 |
| 330/83#03-06 | INDIVIDUAL M | ALLEGATION THE PURCHASE ORDER FOR MATERIAL SUPPLIED TO MIDLAND WOULD READ LASALLE. SEE LASALLE REPORTS 373/82-511374/82-18 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | MIDLAND 2 | | | HAWKINS | 83-08 |

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| 330/83#03-07 | INDIVIDUAL M | ALLEGATION AN OCTOBER 9, 1981 REPORT IDENTIFIED (1) ALTERED CERTIFICATIONS; (2) WHITE-OUT USED AND RETYPED; AND (3) HEAT NUMBERS ALTERED TO AGREE WITH CERTIFICATIONS. REFER TO REPORTS 83-08 SECTION I, C99900785/82-02 (RIV) ALLEGATIONS 8 AND 9, AND OI 3-82-025 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | MIDLAND 2 | | | RIV | 82-02 |
| 330/83#03-08 | INDIVIDUAL M | ALLEGATION THE DOCUMENT CONTROL WAS SO POOR TRADITIONALLY THAT THE RECORDS HAD BEEN PILED ON FLOORS IN BOXES. EVEN AFTER THE DOCUMENT CONTROL CENTER HAD BEEN ESTABLISHED, UNAUTHORIZED PERSONNEL WERE REMOVING QUALITY DOCUMENTS WITHOUT SIGNING THEM OUT. REFER TO REPORT C99900785/82-02 (RIV) ALLEGATIONS 1 AND 5 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | MIDLAND 2 | | | RIV | 82-02 |
| 330/83#03-09 | INDIVIDUAL M | ALLEGATION INTERIM REPORTS WERE PRODUCED ON A RUSH BASIS IN ORDER TO SHOW DOCUMENTED EVIDENCE THAT ZACK WAS IMPLEMENTING CORRECTIVE ACTION AND THAT THE UTILITIES COULD PROCEED WITH CONSTRUCTION. THESE INTERIM REPORTS WERE INACCURATE AND SHOULD HAVE BEEN CONTINUALLY REVISED TO REFLECT AN ACCURATE STATUS REPORT. SEE REPORTS C99900785/82-02 (RIV) ALLEGATION 16 AND 83-08 SECTION I (50.55(E)) FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | MIDLAND 2 | | | RIV | 82-02 |
| 330/83#03-10 | INDIVIDUAL M | ALLEGATION AN OCTOBER 23, 1981 REPORT ACCURATELY IDENTIFIED PROBLEMS WITH MATERIAL CERTIFICATIONS, IMPROPER ACCESS TO DOCUMENTS, AND UNAUTHORIZED DOCUMENT ALTERATIONS. RESOLUTION SAME AS 82#08-01. | MIDLAND 2 | | | HAWKINS | 83-08 |

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| ITEM NO./ RESPONSE DUE | INSPECTOR/ MODULE NO. | ITEM TYPE/ BRIEF DESCRIPTION | FACILITY NAME | LICENSEE DESIGNATED NO. | INTERIM INSPECTION | INSPECTOR ASSIGNED | CLOSEOUT REPORT NO. |
| 330/83#04-01 | INDIVIDUAL N | ALLEGATION I HAD VIRTUALLY NO FORMAL TRAINING FOR MY WORK. SEE REPORT C99900785/82-02 (RIV) ALLEGATION 4 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | MIDLAND 2 | | | RIV | 82-02 |
| 330/83#04-02 | INDIVIDUAL N | ALLEGATION REPRODUCED COPIES WERE NOT IDENTICAL TO THE ORIGINAL PO. DISCREPANCIES INCLUDED FREQUENT SPACES ON THE REPRODUCTIONS WHICH HAD BEEN WHITED-OUT AND SOMETIMES FILLED IN OVER AGAIN. SEE REPORT C99900785/82-02 (RIV) ALLEGATIONS 8 AND 9 AND OI REPORT 3-82-025 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | MIDLAND 2 | | | RIV | 82-02 |
| 330/83#04-03 | INDIVIDUAL N | ALLEGATION MANUFACTURERS DID NOT SEEM ESPECIALLY CAREFUL IN MONITORING THE EQUIPMENT PAPERWORK. ONE MANUFACTURER SENT US A TYPICAL CERTIFICATION FORM FOR SEVERAL LOTS OF WELDING MATERIAL, ALONG WITH A LETTER INDICATING THAT WE COULD FILL IN THE SPECIFICATIONS AND MATCH THEM UP WITH THE PO'S THEMSELVES. SEE REPORT C99900785/82-02 (RIV) ALLEGATION 10 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | MIDLAND 2 | | | RIV | 82-02 |
| 330/83#04-04 | INDIVIDUAL N | ALLEGATION COMMENTS CONCERNING POOR DOCUMENT CONTROL. REFER TO REPORT C99900785/82-02 (RIV) ALLEGATIONS 1 AND 5 AND OI REPORT 3-82-025 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | MIDLAND 2 | | | RIV | 82-02 |

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| 330/83#04-05 | INDIVIDUAL N | ALLEGATION | MIDLAND 2 | | | HAWKINS | 83-08 |
| | | DURING THE TIME I WORKED FOR ZACK, THE NRC DID NOTHING THAT I AM AWARE OF TO INSPECT ZACK PROCEDURES OR MONITOR THEIR QA PROGRAM. SEE LETTERS FROM RIII WHICH REFER THIS ISSUE TO OIA (DATED AUG. 9, AND 31, 1983) FOR APPROPRIATE ACTION. THE LETTERS FOWARDED IND. H'S AFFIDAVIT AND SWORN STATEMENT AND IND. O'S AFFIDAVIT REGARDING SAME ISSUE. REPORT 83-08 REFERS TO ISSUES SENT TO OIA. | | | | | |
| 330/83#05-01 | INDIVIDUAL O | ALLEGATION | MIDLAND 2 | | | RIV | 82-02 |
| | | COMMENTS REGARDING POOR DOCUMENT CONTROL. SEE REPORT C99900785/82-02 (RIV) ALLEGATIONS 1 AND 2 AND OI REPORT 3-82-025 FOR RESOLUTION. INDIVIDUAL O'S AFFIDAVIT FOWARDED TO OIA IN LETTER DATED AUGUST 9, 1982. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | | | | | |
| 330/83#05-02 | INDIVIDUAL O | ALLEGATION | MIDLAND 2 | | | RIV | 82-02 |
| | | THERE WAS NO CONTROL OVER NUCLEAR PURCHASE ORDERS. AFTER I WAS FIRED I LEARNED THAT SOMEONE HAD GONE INTO SOME OF THE FILES TO FIX OR CORRECT THE VARIOUS PO'S. SEE REPORT C99900785/82-02 (RIV) ALLEGATIONS 8 AND 9 AND OI REPORT 3-82-025 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | | | | | |
| 330/83#05-03 | INDIVIDUAL O | ALLEGATION | MIDLAND 2 | | | RIV | 82-02 |
| | | COMMENTS REGARDING LACK OF FORMAL TRAINING. SEE REPORT C99900785/82-02 (RIV) ALLEGATION 4 FOR RESOLUTION REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | | | | | |

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| ITEM | | | | RESOLUTION | | | |
|---|--------------------------|---------------------------------|---------------|----------------------------|-----------------------|-----------------------|------------------------|
| ITEM NO./ RESPONSE DUE | INSPECTOR/ MODULE NO. | ITEM TYPE/ BRIEF DESCRIPTION | FACILITY NAME | LICENSEE DESIGNATED NO. | INTERIM INSPECTION | INSPECTOR ASSIGNED | CLOSEOUT REPORT NO. |
| 330/83#05-04 | INDIVIDUAL 0 | ALLEGATION | MIDLAND 2 | | | RIV | 82-02 |
| <p>TO THE BEST OF MY PERSONAL KNOWLEDGE A COMPLETE AUDIT IS STILL NOT FINISHED AT ZACK. (QA DOCUMENTATION). SEE REPORT C99900785/82-02 (RIV) ALLEGATION 16 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE.</p> | | | | | | | |
| 330/83#05-05 | INDIVIDUAL 0 | ALLEGATION | MIDLAND 2 | | | RIV | 82-02 |
| <p>A NUMBER OF THE CMTR'S I INSPECTED WERE ALTERED. SEE REPORT C99900785/82-02 (RIV) ALLEGATIONS 8 AND 9 AND 01 REPORT 3-82-025 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE.</p> | | | | | | | |
| 330/83#05-06 | INDIVIDUAL 0 | ALLEGATION | MIDLAND 2 | | | RIV | 82-02 |
| <p>I WAS NOT QUALIFIED TO MAKE A RESOLUTION OR EXCUSE FOR PROBLEMS LIKE MISSING CERTIFICATIONS (CONCERNING NCRS SHE WAS FORCED TO WRITE). SEE REPORT C99900785/82-02 (RIV) ALLEGATION 4 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE.</p> | | | | | | | |
| 330/83#05-07 | INDIVIDUAL 0 | ALLEGATION | MIDLAND 2 | | | RIV | 82-02 |
| <p>IN LETTER FROM A SUB-TIER VENDOR CONCERNING MISSING CERTIFICATIONS OR SPECIFICATIONS THE VENDOR TOLD ZACK TO JUST FILL IN THE BLANKS. SEE REPORT C99900785/82-02 (RIV) ALLEGATION 10 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE.</p> | | | | | | | |

MIDLAND - ALLEGATIONS, INDIVIDUALS C, F, H, M, N, O, R, X, Y, Z, AND CC, ONE COPY FOR R. SPESSARD
COMPLETE LISTING

UPDATED 2/28/84

| ITEM | | | | RESOLUTION | | | |
|---------------------------|--------------------------|---|---------------|----------------------------|-----------------------|-----------------------|------------------------|
| ITEM NO./ RESPONSE DUE | INSPECTOR/ MODULE NO. | ITEM TYPE/ BRIEF DESCRIPTION | FACILITY NAME | LICENSEE DESIGNATED NO. | INTERIM INSPECTION | INSPECTOR ASSIGNED | CLOSEOUT REPORT NO. |
| 330/83#05-08 | INDIVIDUAL O | ALLEGATION | MIDLAND 2 | | | HAWKINS | 83-08 |
| | | TO THE BEST OF MY KNOWLEDGE THERE WAS NEVER AN NRC INVESTIGATION AT THE ZACK SITE DURING MY EMPLOYMENT THERE. REPORT 83-08 REFERS TO AFFIDAVITS AND STATEMENTS WHICH WERE SENT TO OIA. REFER TO AUGUST 9, 1983 LETTER FROM REGION III TO OIA. | | | | | |
| 330/83#05-09 | INDIVIDUAL O | ALLEGATION | MIDLAND 2 | | | RIV | 82-02 |
| | | I ALSO BELIEVE THERE SHOULD BE A REVIEW OF ZACK WELDER QUALIFICATION RECORDS. SEE REPORT C99900785/82-02 (RIV) ALLEGATION 3 AND RIII REPORTS 83-13183-14, (COOK RELEASE OF ZACK WORK) FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | | | | | |
| 330/83#08-01 | INDIVIDUAL R | ALLEGATION | MIDLAND 2 | | | COOK | 83-11 |
| | | UNQUALIFIED PERSONNEL AT MIDLAND INCLUDE LED DAVIS, DICK SODERHOLM, CLARK ASH, AND ED ENTROKIN. REFER TO JUNE 27, 1983 LETTER TO SINCLAIR FROM KEPPLER. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | | | | | |
| 330/83#08-02 | INDIVIDUAL R | ALLEGATION | MIDLAND 2 | | | HAWKINS | 83-08 |
| | | ZACK ALSO DID NOT HAVE QUALIFIED PEOPLE FOR DESIGN WORK THEY WERE DOING. SEE REPORT 83-08 SECTION I FOR RESOLUTION (ATTACHMENT E TO REPORT 83-08) | | | | | |

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COMPLETE LISTING

UPDATED 2/28/84

| ITEM | | | | RESOLUTION | | | |
|---|--------------------------|---------------------------------|---------------|----------------------------|-----------------------|-----------------------|------------------------|
| ITEM NO./ RESPONSE DUE | INSPECTOR/ MODULE NO. | ITEM TYPE/ BRIEF DESCRIPTION | FACILITY NAME | LICENSEE DESIGNATED NO. | INTERIM INSPECTION | INSPECTOR ASSIGNED | CLOSEOUT REPORT NO. |
| 330/83#08-03 | INDIVIDUAL R | ALLEGATION | MIDLAND 2 | | | COOK | 83-11 |
| <p>HE CLAIMS THAT ALL WORK ON ANY CONSTRUCTION PROJECT BEYOND A CERTAIN LIMITED SIZE MUST BE DONE AS A MICHIGAN REGISTERED ENGINEER OR ARCHITECT. ALSO SEE REPORT 83-08 SECTION I AND JUNE 27, 1983 LETTER TO SINCLAIR FROM KEPPLER FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE.</p> | | | | | | | |
| 330/83#08-04 | INDIVIDUAL R | ALLEGATION | MIDLAND 2 | | | COOK | 83-11 |
| <p>HE TOLD ME THAT A VERY GOOD WELDER QUIT THE PROJECT RECENTLY BECAUSE THE SCHEDULING WAS SO ERRATIC. SEE JUNE 27, 1983 LETTER FROM KEPPLER FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE.</p> | | | | | | | |
| 330/83#14-01 | INDIVIDUAL X | ALLEGATION | MIDLAND 2 | | | RIV | 82-02 |
| <p>TRAINING WAS INADEQUATE IN PREPARING HIM TO PERFORM HIS JOB WITH ZACK. SEE REPORT C99900785/82-02 (RIV) ALLEGATION 4 AND 83-08 SECTION I FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE.</p> | | | | | | | |
| 330/83#14-02 | INDIVIDUAL X | ALLEGATION | MIDLAND 2 | | | HAWKINS | 83-08 |
| <p>UPPER LEVEL ZACK MANAGEMENT PRESSURES HAVE AFFECTED THE QUALITY OF WORK. SEE REPORT 83-08 SECTION I AND OI REPORT 3-82-057 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE.</p> | | | | | | | |

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COMPLETE LISTING

UPDATED 2/28/84

| ITEM | | | | RESOLUTION | | | |
|---------------------------|--------------------------|--|---------------|----------------------------|-----------------------|-----------------------|------------------------|
| ITEM NO./ RESPONSE DUE | INSPECTOR/ MODULE NO. | ITEM TYPE/ BRIEF DESCRIPTION | FACILITY NAME | LICENSEE DESIGNATED NO. | INTERIM INSPECTION | INSPECTOR ASSIGNED | CLOSEOUT REPORT NO. |
| 330/83#14-03 | INDIVIDUAL X | ALLEGATION | MIDLAND 2 | | | RIV | 82-02 |
| | | HE FREQUENTLY SAW DOCUMENTS HAVING EVIDENCE OF SIGNATURES OF QUESTIONABLE AUTHENTICITY, WHITE OUTS AND HEAT NUMBER ALTERATIONS. SEE OI REPORTS 3-82-025, RIII REPORT 83-08 SECTION I, AND RIV REPORT C99900785/82-02 RIV ALLEGATION 8 AND 9 FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED; THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | | | | | |
| 330/83#15-01 | INDIVIDUAL Y | ALLEGATION | MIDLAND 2 | | | HAWKINS | 83-08 |
| | | DUE TO THE FAILURE OF CPCO TO POST X-RAY SIGNS, HE WAS EXPOSED TO RADIATION PRODUCED BY X-RAY EQUIPMENT. SEE REPORT 83-08 SECTION I FOR RESOLUTION. THE INDIVIDUAL DID NOT WISH TO PURSUE THIS ISSUE WITH THE NRC. | | | | | |
| 330/83#16-01 | INDIVIDUAL Z | ALLEGATION | MIDLAND 2 | | | HAWKINS | 83-08 |
| | | IMPROPER DEFICIENCY TRENDING TECHNIQUES AT ZACK. SEE REPORT 83-08 SECTION I AND III FOR RESOLUTION. INDIVIDUAL Z'S SWORN STATEMENT SENT TO OI ON 11-3-83. | | | | | |
| 330/83#16-02 | INDIVIDUAL Z | ALLEGATION | MIDLAND 2 | | | GARDNER | |
| | | UNQUALIFIED COMSTOCK PERSONNEL PERFORMING ENGINEERING AND QUALITY FUNCTIONS. | | | | | |
| 330/83#16-03 | INDIVIDUAL Z | ALLEGATION | MIDLAND 2 | | | COOK | 83-22 |
| | | INADEQUATE DESIGN AND CONSTRUCTION OF INSTRUMENT TUBING AND SUPPORTS BY BECHTEL AND COMSTOCK. SEE REPORT 83-08 SECTION I FOR DETAIL OF RESOLUTION. | | | | | |

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| ITEM | | | | RESOLUTION | | | |
|---------------------------|--------------------------|---|---------------|----------------------------|-----------------------|-----------------------|------------------------|
| ITEM NO./ RESPONSE DUE | INSPECTOR/ MODULE NO. | ITEM TYPE/ BRIEF DESCRIPTION | FACILITY NAME | LICENSEE DESIGNATED NO. | INTERIM INSPECTION | INSPECTOR ASSIGNED | CLOSEOUT REPORT NO. |
| 330/83#19-01 | INDIVIDUAL CC | ALLEGATION | MIDLAND 2 | | | HAWKINS | 83-08 |
| | | IMPROPER USE OF ONSITE DESIGN CHANGE METHODS. SEE REPORT 83-08 SECTION I FOR RESOLUTION. REPORT 83-08 PROVIDES ASSURANCE THAT HVAC SYSTEMS AND COMPONENTS ARE ADEQUATELY DESIGNED AND CONSTRUCTED THAT MATERIALS AND THE QA PROGRAM UTILIZED WERE ADEQUATE. | | | | | |
| 330/83#19-02 | INDIVIDUAL CC | ALLEGATION | MIDLAND 2 | | | HAWKINS | 83-08 |
| | | INCORRECT INSTALLATION OF ANCHOR BOLTS FOR SURFACE MOUNTED PLATES. SEE REPORT 83-08 SECTION I AND II FOR RESOLUTION. | | | | | |
| 330/83-19-03 | INDIVIDUAL CC | ALLEGATION | MIDLAND 2 | | | HAWKINS | 83-08 |
| | | EXTENSIVE PROPOSED CONTROL ROOM HVAC REDISIGN. SEE REPORT 83-08 SECTION I FOR RESOLUTION. REFERRED TO TERA FOR INCORPORATION INTO THE CONTROL ROOM HVAC DESIGN REVIEW. | | | | | |
| 330/83#19-04 | INDIVIDUAL CC | ALLEGATION | MIDLAND 2 | | | HAWKINS | 83-08 |
| | | EXCESSIVE BLOWHOLES IN THE CONTROL ROOM DUCTWORK. SEE REPORT 83-08 SECTION I AND II FOR RESOLUTION. | | | | | |
| 330/83#19-05 | INDIVIDUAL CC | ALLEGATION | MIDLAND 2 | | | HARRISON | 83-10 |
| | | BECHTELS USE OF NONDISCLOSURE STATEMENTS. ALSO SEE REPORT 83-08 SECTION I. | | | | | |

Document Name:
HVAC EXIT MEETING OUTLINE

Requestor's ID:
LAURIE

Author's Name:
Hawkins

Document Comments:
Outline for Midland HVAC Exit Meeting in RIII 02/29/84

HVAC EXIT MEETING FEBRUARY 29, 1984

Report 83-08; 83-08

- A. Special Inspection to address the allegations from 11 individuals regarding the design and construction of the Midland HVAC system. Began May 10, 1983.

- B. The inspection involved a total of 1142 hours by five Region III and three NRR representatives.

- C. The primary objective of the inspection was to provide us confidence that
1) the HVAC systems and components are properly constructed and 2) that an adequate QA Program is being implemented with regard to ongoing HVAC activities.

- D. To accomplish the objective we developed a five phase program which consisted of:
 - (1) Followup of allegations
 - (2) Construction inspection
 - (3) QA Program review
 - (4) NRR design review
 - (5) Materials sampling and testing program

E. Results: Nine items of noncompliance

- (1) 10 CFR 50.55(e) (Level IV) - Failure to report the Zack documentation deficiencies in accordance with 55(e).
- (2) Criterion 10 - "Inspection" (Level IV) - the spec. governing HVAC activities did not include provisions or requirements for assuring fit-up conformance to AWS D1.1 for structural welding.
- (3) Criterion 18 - Audits (Level IV) - Examples of six instances where audits were not conducted in accordance with MPQAD Procedure F-1M.
- (4) Criterion 2 - Quality Assurance Program (Level V) - Failure to establish a training program to ensure that HVAC quality control inspectors are trained in changes to HVAC Spec. 151, when those changes affected the acceptance criteria or inspection requirements.
- (5) Criterion 2 - QA Program (Level V) - Examples of three instances where quality inspection personnel were not properly qualified and/or certified.
- (6) Criterion 5 - Instructions, Procedures, and Drawings (Level V) - Examples of three instances where design change notices were not incorporated into the design documents as required by Bechtel Procedure PEP 4.46.1.

(7) Criterion 16 - Corrective Action (Level V) - Appropriate corrective action was not taken in the case of 42 HVAC shop travelers which documented that welding was performed by unqualified welders. Specifically, the corrective action did not address the acceptability of welds performed during the period when the welders were not properly qualified in accordance with AWS.

(8) Criterion 5 - Instructions, Procedures, and Drawings (Level V) - Examples of two instances where the Zack procedure for Trend Analysis (PQCP-20) was not followed.

(9) Criterion 5 - Instructions, Procedures, and Drawings (Level V) - After Bechtel's discontinuation of Zack's use of the SDDR, there was no approved vehicle at Zack's disposal to submit nonconforming conditions to Bechtel for disposition.

F. Noncompliances 2, 4, 5, and 7 are programmatic in nature and may impact completed HVAC system construction. Consequently, your evaluation of this potential impact on completed work should be included in your written response to those items.

G. Conclusions: As a result of this effort the ^{NRC} staff has reasonable assurance that the HVAC system design and construction at Midland is acceptable and an adequate QA Program is being implemented w/ regard to ongoing activities.