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INVESTIGATION INTO APPARENT DISCREPANCIES IN WELD RECORDS RELATIVE TO THE MIDLAND PROJECT

Sept. 27, 1982

8406020080 840517 PDR FDIA RICE84-96 PDR The condition that was investigated to determine if it failed to comply with the Atomic Energy Act of 1954 as amended, or that the components supplied contained defects which could create a "substantial safety hazard", was due to the apparent discrepancy between "working" (photocopy) copies of Shop Travelers containing welder identifications and the official Quality Record Copies (yellow) of these Travelers which contained conflicting welder identifications.

Overall, the Travelers with discrepancies were found to have been used to fabricate HVAC components to be installed at all three currently active contract facilities, but were limited to work performed at the Zack Company facilities at Cicero, Illinois and Chicago, Illinois. Information in this report pertains to MIDLAND PROJECT only.

The Travelers in question are part of a system utilized by the Zack Company to record as-built, as-welded conditions and in-spection verifications for fabricated HVAC components. Certain "working" (photocopy) copies of the official Travelers utilized by production tradesmen contain the initials/numbers of various personnel who apparently performed some work function on the component(s) listed on an individual Traveler. Relevant information such as welder identification was then transferred to the official Record Copy (yellow).

These "working" copies were reviewed against the official copy and all discrepancies between the two were noted and evalutated to determine if they would create a substantial safety hazard.

The investigation had two (2) specific goals:

A. To determine if the inconsistancies between the "working" copies and the original Travelers could result in a condition that would create a substantial safety hazard.

B. To determine if the individual(s) involved were trying to remove evidence of a deviation with malice aforethought.

The following action plan and work assignments were directed at achieving goal "A" above. Zack Company Management in conjunction with legal advisors addressed the resolution of goal "B" above.

To determine if the inconsistancies resulted in a substantial safety hazard, they were collated, reviewed, catagorized and evaluated.

"Working"Copies were collated by:

- 1. Project
- 2. Safety related/Non-Safety related
- 3. By the type of information contained on the "working" copy.

This report deals only with Travelers identified as safety related.

The following types of information were obtained and used to provide background and to substantiate the validity of the records.

- A. Payroll records to set time frames for welders employment at Zack.
- B. Load Shipment Dates to support work and inspection dates.
- C. Welder hire dates, qualification dates and termination dates.
- D. Support personnel hire, and termination dates (i.e. cleaners, inspectors, etc.)
- E. Weld wire issue dates for Plant 2 (Kilbourn Avenue).

Using the above information, the review process was started and progressed as described on page 4.

The first review identified all "working" copies that contained no fabrication or identification information and, therefore, could not disagree with the Record Copy. These were put in numerical order, cataloged and removed from further consideration.

The second review compared the "working" copies to the Record Copies (which had been removed from file for this comparison) for the following:

- A. Unqualified welders indicated on the working copy.
- B. Welders listed on the "working" copy that did not appear on the Record Copy.
- C. Any personnel identifications on the "working" copy (i.e. initials or I.D. numbers) not immediately identifiable.
- D. "Working" copy in total agreement with Record Copy.
- E. To note any other variations or discrepancies.

The above information was catagorized as stated below.

- CATEGORY 1 (Indicated by "Yes" on tally sheets) "working" copy and Record Copy agree and welder(s) qualified.

 (Item D above).
- CATEGORY 2 (Indicated by "Yes X" on tally sheets) "working" copy and Record Copy differ with all welders involved being qualified. (Item B above).
- CATEGORY 2 (Indicated by "No" on tally sheets) "working" copy and Record Copy differ and unable at this stage to establish if all welders are qualified.

 (Items A and C above).

At this point in time, <u>Catagories 1 and 2</u> were eliminated from further review as it was determined that no serious problem existed as long as all welders identified were qualified.

Category 3 was further broken down as follows.

- A. Date discrepancies exist for welder qualification because of inability to establish actual work or inspection dates.
- B. No weld procedure was listed on "working" or Record Copy.
- C. Two weld procedures were listed on either copy, but welders listed were qualified to only one or to neither.
- D. Welder apparently not qualified or unidentifiable initials on either copy.

- E. Welder not qualified on best available indication of work date, but qualified at a later date.
 - Qualification not prior to Traveler issue date, no work/ inspection date available.
 - 2. Qualification not prior to actual work/inspection date.
- F. Miscellaneous variations or discrepancies.

To provide the most expeditious handling of this volume of paperwork through the review cycle to this point while maintaining the level of integrity required, the Zack Company brought in five (5) Engineers from one of our field operations to assist in the review.

Internal departments provided the following support.

DRAFTING DEPT: Located and matched record copies with "working" copies.

ENGINEERS: Reviewed "working" copies vs. Record Copies, noted and recorded and categorized differences.

DOCUMENT CONTROL. Provided control and security for all relevant documents and assisted in logging/filing operations. The above group operated under Mr. Tom DeLafosse, Project Coordinator who was assigned the Lead Function.

ACCOUNTING DEPT: Provided payroll and employment records to validate time frames for individual welders' work, and for various other support personnel.

Q.A. DEPT: Developed welder and cleaner/inspector matrixes and functioned as part of the review team.

The above group operated under Mr. Ray Basiaga, Lead Q.A. Engineer who was assigned the Lead Function.

CORFORATE MANAGEMENT provided coordination, additional required management, individuals relevant to the investigation for interview, review and approval of all phases of the review and support to all individuals involved throughout the effort.

All relevant personnel were interviewed during the various phases of the investigation and said interviews were documented when deemed appropriate. Information obtained in this form that was based facts, not opinion, and that could be substantiated, was used in the evaluation. All other information was simply recorded and included for information only.

The final evaluation of the Travelers in Category Three (3) ("No") was conducted by Mr. Dave Calkins, Manager of Nuclear Construction, Mr. Tom DeLafosse, Project Coordinator and Mr. Ray Basiaga, Lead Quality Assurance Engineer.

The goal of the final evaluation was to determine if the inconsistancies noted on all copies of the remaining Category Three (3) ("No") Travelers raised any questions as to the quality of the workmanship.

The final evaluation utilized the finalized welder qualification matrix containing all information available from Pittsburgh Testing Laboratories in addition to information on file at the Zack Company. This matrix included welder name, I.D. No., hire date, termination date, and qualification date for each welding process.

Also utilized was a listing of shop cleaning and inspection personnel. This list was compiled from personnel records and verified by plant supervision. This list included name, I.D. No., hire date, termination date and position.

The following shop practices, confirmed by interview, were considered credible and accepted as valid for the purpose of the final review.

Shop Personnel often marked dimensional, operational or identification information on the "working" copy of the Traveler.

This information was not required to be on the Record Copy of the Traveler by either procedure or regulation.

- 2. Cleaning Personnel generally circled their initials or I.D. No.
- 3. Layout or Cutting Personnel generally initialed their work within the cut list portion of the Traveler.
- Inspection Personnel identified by their initials, symbol or I.D. No., were considered as acceptable as none have ever worked for the Zack Company as welders.
- Welders normally initialed beside the work they performed and indicated completion with the word "out".
- 6. Sheet Metal workers from various locals are generally not qualified to AWS Standards. The Zack Company often had these personnel working as helpers with Zack Company certified AWS qualified welders until they became familiar with AWS Standards and Zack procedures. Their initials on the "working" copy do not indicate that they welded, but served as a means of tracking their training. However, for purposes of this report, it has been assumed that they did weld and were evaluated accordingly.

The results of the comparison between the "working" copies and Record Copies of Shop Travelers are included as attachments. The attachments are collated in progression from the earliest results to the final results.

In conclusion, a complete and thorough investigation has been conducted by the Zack Company of the information contained on the "working" copies and Record Copies of Shop Travelers.

This investigation has revealed that in some assist here is additional and/or different information of the king" copies than on the Record Copies. There is, however, no bases for establishing that the "working" copy is complete and correct or that the Record Copy is in error. The Zack Company has taken the position that the "working" copies will be attached to the Record Copy and retained as a part of the permanent record thereby accounting for all personnel with any possible relevance to the work. It is also the position of the Zack Company that any individual identified by initials or I.D. No. on either copy, who ever worked as a welder during his term of

employment with the Zack Company, was to be considered a welder at the time his identification was put on the Traveler.

Accepting this as the worst possible condition, the Zack Company has been able to account for all persons identified on the Travelers in question. On over 96% of the Travelers, all individuals identified as welders were qualified at the time the work was performed. For the remaining Travelers, all welders with the exception of Mr. Ken Cibson, were qualified at a later date. Of these fourteen (14) welders, six (6) were qualified within thirty (30) days, the remaining eight (8) within six (6) months.

It was upon assurance that the welders were qualified in accordance with applicable codes, regulations, and/or contractual requirements and that all welds were inspected to respective criteria that the determination was made that no "Defect", as defined in 10CFR21 Para. 21.3D existed, and it was at this time that our report to the U.S.N.R.C. was withdrawn.

With regard to M. Ken Gibson, the Zack Company has recognized that it never certified Mr. Gibson in accordance with the requirements of the AWS Code. However, this in no way implies that Mr. Gibson was not a qualified welder or deminishes his ability to produce quality welds in accordance with Zack Company approved weld procedures.

Mr. Gibson has been involved in and been a qualified welder working for various mechanical contractors over the past sixteen (16) years. He has been qualified with the Zack Company at the Clinton Nuclear Project for the past twenty (20) months. Therefore, while the Zack Company may have been remiss in not having put Mr. Gibson through the certification process, it should be noted that this in no way detracts from his previous qualifications and ability to produce sound, quality welds.

Mr. Gibson only worked in the Zack Company, Chicago facility, for a period of four (4) months between July, 1978 and November, 1978 and was responsible for welds on one (1) Traveler for the Midland and was responsible for welds on one (1) Traveler for the Midland Project. This discrepancy with respect to Mr. Gibson's qualification and the Midland Traveler, is an internal Zack Company protions and the Midland Traveler, is an internal Zack Company protions and the Midland Traveler, is an internal Zack Company protional violation only. Mr. Gibson's welds were inspected and cedural violation only. Mr. Gibson's welders are required to accepted to the same standards all other welders are required to meet.

The one Traveler (F6654) welded by Mr. Gibson is still in existance at the Midland Project for one transition piece. This piece will be reinspected and replaced by the Zack Company if found unacceptable.

The following events were considered relevant in either understanding the reasons the inconsistancies could have occurred or in
judging that the inconsistancies did not indicate a significant
problem:

** ...

The Zack Company went from a single plant operation to a two-plant operation at the opening of its Chicago facility on Kilbourn Avenue. The plant was purchased in February, 1979 and after initial refurbishment it was made operational in May, 1979 and was operated until November 1981. The transition from a single plant operation to a two-plant operation tion from a single plant operation to a two-plant operation was coupled with the build-up in personnel could account for was coupled with the delay in qualifying a few welders in a timely manner.

Various inspections by both Zack Company personnel and client personnel (see attachments) have re-established the quality of the welds irrespective of the documented qualifications of the welders.

In any event, I believe that the Zack Company has proved that a serious systemic problem does not, nor did not exist. A distribution of the dates of occurrence of discrepant Travelers is attached for your information.

Please review this report and its attachments to determine if a 50.55.E Report is required on your part.

Any and all questions concerning this matter should be directed to the Zack Company Quality Assurance Department.

NO.	,, NO.	DATE			DATE	0.K	. 1	03.00	TTC	
1204	82 39	12/3/	79 1/10	/80 01	K	YES		COME.	412 .	fg 20
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F1042	28 21	12/3/	79 1/10/	/80 OX		YES	-			
F1028	35 6	12/3/	79 1/10/	80 OK		YES	+			
F1026	9 23	12/3/	79 1/10/	80 OK		YES		4		
F1028	6 5	12/3/7	79 1/10/	80 OK		YES	+	•		
F1013	2 21	12/3/7	9 1/10/	-		YES	-			
F1026	8 34,30	12/3/7		-	1/22/80	NO /	-			
F10264	4 26	12/3/7		-	,, #0	YES	-			
F10265	34	12/3/7		_		-	-			
F10261	48	12/3/7			0.0	165	-			18 44 4
F10130	48	12/3/79				YES				
F10128	5,6	12/3/79	-	-		YES				
F10125	34,6	12/3/79		-		YES X				
F10124	21	12/3/79		-		YES X				
P1203	34	9/18/79	-/ -/ 00	-		YES				
P1201	34,54	9/18/79	2/3/00.	-	22./24	YES				
P1185	26	10/2/79		-		NO				
F8766	34	10/15/79	1 =1 37 00	OK		YES				
6456	48,54	8/10/79	-/-/-	OK		YES				
		-	-	54 1/	22/80	NO /				
8767	34,26 or 52		1/9/80	52 3/1	15/80	NO ? -				
8768	26	1	1/9/80	OK		YES	*** * * * *			
8769	26	10/15/79		OK		YES				
	39,26 or 52	10/15/79		5,2 3/1	5/80	10 7		7		
3797	12	10/15/79		OK.	Y	ES		i		
3799	39	10/15/79	1/9/80	OK	Y	ES .	,	-		
860	39	10/10/79	1/9/80	OK	Y	ES				
816	34,54	10/10/79	1/9/80	54 1/22	/80 N	0 / 1			МП	DLAND
810	5 , .	10/10/79	1/9/80	OK	Y	Es			YES	
809	5	10/10/79	1/9/80	OK		es				x - 2

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NO	NO's.	DATE	DATE	DATE	O.K.	1	COMENT	S . Pa 21
.3611	23,12	3/81	4/28/83	ОК	YES		•	s .
73608	21,12,34	3/81	4/28.81	OK	YES			
P3606	23,21,63	3/81	4/28/81	OK .	YES			
P3605	20,63,21	3/81	4/27/81	OK	YES			
P3604	12,23	3/81	4/29/81	ОК	YES	1		
P3601	34,12	3/81	4/27/81	ОК	YES	1	•	
F12055	12	3/81	4/21/81	OK	YES	-		
F2853	63,20	1/81	2/19/81	OK	YES			
F2523	21,20	1/81	4/21/81	ОК	YES	7-10-		
F2226	21,23	4/81	4/21/81	OK	YES			
F2225	21,34	4/81	4/21/81	ОК	YES			
F2222	21,23	4/81	4/12/81	OK	YES			
F2082	12,21,63	3/81	4/17/81	OK	YES			
F2050	12,21	4/81	4/21/81	ОК	YES			
F2049	12,23	4/81	4/21/81	OK	YES			
F2048	21,12,34	4/81	4/21/81	OK	YES			
F2047	63,21,12	4/81	4/17/81	ОК	YES			
2033	23,34	3/81	4/17/81	OK	YES			
2030	34,63	3/81	4/17/81	ОК	YES			
2029	34,12	3/81	4/17/81	OK .	YES			
10487	48	12/3/79	1/10/80	OK	YES			
10488	5	12/3/79	1/10/80	OK .		*** **		
10484	6,54	12/3/79	1/10/80	54 - 1/22/80	YES	**** ** * * *		
10494	48	12/3/79	1/10/80	OK	NO · / ·			
10493	5	12/3/79	1/10/80	OK	YES	N A H A		<u> </u>
10491	5	12/3/79	1/10/80			*	- 	1 /
10489	34,26 or 52	12/3/79		OK	YES NO?		-	
10490	6	12/3/79	1/10/80					MIDLAND
0497	48 '	12/3/79		OK	YES			YES - 29
0480	39	12/3/79	1/10/80	OK .				YES X - 0
0481		12/3/79	1/10/80	OK OK	YES			CLASS I

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NO	NO's.	DATE	DATE	DATE	0.K.		MIMENTS .	Pg 22
12224	21,63,5	4/81	4/21/81	OK	YES X			13 22
F2116	23,21	4/81	5/7/81	ок	YES			
P3041	34,23	12/80	5/14/81	OK	YES			
P3035	23,12,21,20	12/80	5/8/81	OK	YES X	Test is	•	
P3040	34,63,73	12/80	5/1/81	ок	YES		-	
P3038	23,34,12	12/80	5/1/81	ок	YES			
P3037	21	12/80	5/5/81	ОК	YES	***		
P3033	23	12/80	5/4/81	OK	YES			
P3036	12,21,23	12/80	5/1/81	ОК	YES		•	
P3034	21,63,23	12/80	5/1/81	ОК	YES X			
P3031	34,12	12/80	4/30/81	ОК	YES X			
P3030	34	12/80	5/5/81	OK	YES			
P3029	34,23	12/80	5/6/81	ОК	YES			
F13782	63	12/90	5/6/81	ок	YES			
F13789	34	12/80	5/5/81	ОК	YES			
F13784	23	12/80	5/6/81	OK	YES			
F13788	63	12/80	5/5/81	Ok.	YES			
F13787	63	12/80	5/6/81	OK	YES			
F13786	21	12/80	5/4/81	OK	YES.			
F13783	63	12/80	5/1/81	OK	YES	No.		
F13781	63	12/80	5/5/81	OK	YES			
F13763	63	12/80	5/1/81	OK	YES			
F13762	12	12/80	5/6/81	OK	YES			
P3032	12,23,34,12	12/80	5/8/81	OK	YES			
F13761	12	12/80	5/4/81.	ok	YES			
F13760	63	12/80	5/5/81	OK.	YES		!	
P3609	12,21	3/30/81	5/4/81	OK .	YES		•	
P3610	34,63	3/30/81	5/4/81	OK .	YES			MIDLAND
P3614	21 , .	4/81	4/21/81	OK	YES	***		YES - 27 YES X - 4
3613	21,63	4/81	4/21/81	OK	YES			NO -0
93612	34.63	4/81	4/29/81	OK	YES			CLASS I PLANT 2

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NO	No's.	DATE	DATE	DATE.	О.К.	COMENTS Pg 23
F10048	48,26	11/16/79	1/15/80	OK	YES	
F10050	5	11/16/79	1/15/80	30, 1/22/80	NO /	
F10057	5,26	11/19/79	1/15/80	ОК	YES	
F10058	5	11/19/79	1/15/80	ок	YES	
F10059	12	11/19/79	1/15/80	ОК	YES	
F10063	34	11/19/79	1/15/80	OK	YES	
F10063	12	11/19/79	1/15/80	OK	YES	
F10008	23,26	11/15/79	1/15/80	ОК	YES X	
F8861	48	10/10/79	1/15/80	ОК	YES	
F8859	12	10/10/79	1/15/80	ок	YES	
F8812	34	10/10/79	1/15/80	OK	YES	
F10427	34	12/10/79	1/10/80	OK	YES	
F10486	48	12/3/79	1/10/80	OK	YES	
P1638	48	1/9/80	1/9/80	OK	YES	
P1490	34	12/10/79	1/9/80	ок	YES	
F10485	6,54	12/3/79	1/10/80	54, 1/22/80	NO /	
P1493	34	12/10/79	1/9/80	ox	YES	
F13299	26,12,5	10/80	10/28/80	OK	YES X	
F13297	12,34	10/80	10/28/80	OK.	YES	
F13298	12,5	10/80	10/28/80	ок	YES	
F13296	12,34,21	10/80	10/27/80	ок	YES X	
F12495	12,54	10/80	10/28/80	OK .	YES	
F12492	12,23	10/80	10/28/80	OK	YES	
F12490	12,26	2/80	.10/28/80	OK	YES	
F12481	26,54,12	2/80	10/28/80	ок	YES X	
F12468	26,23,12	2/80	10/30/80	OK.	YES X	
F12467	26,12	2/80	10/30/80	ОК	YES X	
P3330	26,54	2/80	10/28/80	OK	YES	MIDLAND
P3327	54,63,12,26	2/80	10/28/80	OK	YES	YES -22 YES X - 7
P3779	23,54	3/81	5/7/81	OK	YES	, NO -3
F2224	21,63,5	4/81	4/21/81	OK	YES X	CLASS I PLANT 2

NO	NO's.	DATE	DATE	DATE	0.K.	COMENTS	Pg 24
F13303	12,54	10/80	10/28/80	ок	YES		3
F10131	21	11/26/79	1/15/80	OK .	YES		
F10129	6,12	11/26/79	1/16/80	ок	YES X		
F10126	6	11/26/79	1/16/80	ок	YES	19,000	
F10127	34	11/26/79	1/16/80	ОК	YES		
F10049	26	11/7/79	1/14/80 .	Ox	YES		
F10051	34	11/16/79	1/15/80	OK	YES		
F10066	26,30	11/19/79	1/14/80	30, 1/22/80	NO /		
F10053	21	11/16/79	1/14/80	OK	YES		
F10067	21	11/19/79	1/14/80	OK	YES		
F10071	39	11/19/79	1/14/80	OK	YES		
F10013	12	11/15/79	1/14/80	OK	YES		
F8863	5	10/10/79	1/14/80	ОК	YES		
F8733	21	10/2/79	1/15/80	OK	YES		
F8732	21	10/2/79	1/15/80	ОК	YES		
F8802	34	10/15/79	1/15/80	OK	YES		
F8735	21	10/2/79	1/15/80	ок	YES		
P1513	21,6,12	11/16/79	1/15/80	ок	YES X		
P1522	23,48	11/15/79	1/15/80	OK	YES X		
P1514	21,30	11/16/79	1/15/80	30, 1/27/80	NO /		
P1512	34	11/19/79	1/15/80	OK	YES		***
P1523	26,48,DL	11/15/79	1/15/80	DL?	NO?		
P1511	34,54,5	11/19/79	1/15/80	54, 1/22/80	NO /	*** * * * * * * * * * * * * * * * * * *	
P1510	39 WI GS	11/19/79	1/15/80	WI, GS	NO?		
P1509	12	11/19/79	1/15/80.	OK	YES		
21113	21	8/10/79	1/15/80	OK	YES		
10262	34,54	12/10/79	1/15/80	54, 1/22/80	NO /		
10266	26	12/10/79	1/15/80	OK	YES		MIDLAND
10260	34 /	12/10/79	1/15/80	OK	YES		YES -
10009	34,26	11/15/79	1/15/80	OK	YES X		YES X - 4

NO.	No's.	DATE	DATE	DATE	0.K.	CONTRACTION OF THE PARTY OF THE	rs for ac
F12256	21,12,23	2/80	12/17/80	ок	YES		15 · fg 25
F12255	12	2/80	12/17/80	ок	YES		
F10656	23	2/80	10/31/80	ОК	YES		
F2335	26	2/80	1/6/81	OK	YES	-	
F2319	23,5	12/80	1/6/81	ок	YES		
F2318	23,12,21	12/80	1/6/81	ОК	YES X		
P3393	23	11/80	16/81	ОК	YES .	**	
P3392	23,26	11/80	1/6/81	OK	YES		
P3391	26,5	11/80	1/6/81	OK	YES		
P3388	23,26	11/80	1/6/81	OK	YES		
P3389	23	11/80	1/6/81	OK	YES		
P3386	23,26	11/80	1/6/81	ок	YES		
P3018	5	11/80	12/17/80	OK	YES		
P2990	26,23	11/80	12/2/80	OK .	YES		
P2292	5,21	11/80	12/31/80	OK	YES		
P2989	5	11/80	12/17/80	ОК	YES		
P2988	12/5	11/80	12/17/80	OK	YES		
P2986	5,26,34	11/80	12/3/80	OK.	YES		
P2984	12,5	11/80	12/17/80	OK	YES'		
22977	26,5,34	11/80	12/2/80	OK	YES		
P2978	12,26	11/80	12/2/80	OK	VPC		
P2976	23,34,54	11/80	.12/2/80	OK ·			
P2975	5,23,63,26	11/80	12/2/80	OK	Vice 111 121 121	** ** *	
2974	5,63,26	11/80	.12/2/80	OK	YES		
2973	63,12,26	11/80	12/2/80	OK .	YES		
2972	12,63,34,26	11/80	12/2/80	OK.	YES	*	
2955	21,5	11/80	12/17/80	OK .	YES		
12501	21	2/80	10/27/80	OK .	YES		MIDLAND
12475	N/A'	2/80	11/21/80	N/A	N/A		YES -29
2333	5,34	11/80	12/17/80	OK	YES		YES X - 1

NO. "		DATE	DATE	DATE	0.K.	OCH MENTS	0. 20
F13498	34,54	11/80	12/2/80	OK	YES		Pg 26
F13488	34	11/80	12/2/80	OK	YES		
F13485	34,5	11/80	12/2/80	OK	YES		
F13487	12	11/80	12/1/80	ок	YES		
F13486	12,34	11/80	12/2/80	OK	YES	-	
F13484	26,23	11/80	. 12/2/80	OK .	YES	•	
F13483	26,54	11/80	12/2/80	OK	YES		
F13482	26,63	11/80	12/2/80	OK	YES		
F13480	26,34,12	11/80	12/2/80	CK	YES		
F13304	21,12	10/80	12/15/80	ок	YES		
F13301	26,63	10/80	10/25/80	OK	YES		
F13239	12,34	10/80	12/1/80	QK	YES		
F13238	12,34	10/80	12/1/80	OK	YES		
F13100	12,21	10/80	12/1/80	OK	YES		
F12500	21,26	2/80	10/27/80	OK	YES		
F12491	21,12	2/80	12/15/80	OK	YES		
F12479	21,34	2/80	12/2/80	OK	YES		
F12476	21,63	2/80	12/2/80	OK	YES		
F12472	21,34	2/80	12/2/80	OK	YES		
F12469	34	2/80	12/13/80	OK	YES		
F12466	54,26,21	2/80	10/27/80	OK	YES		
F12454	5	2/80	1/5/81	OK .	YES	***	
F12453	5	2/80	1/5/81	OK	YES	****	
F12260	21,12	2/80	12/17/80	OK	YES	****	
F12265	21	2/80	12/17/80	OK	YES		
F12262	21,12 _/	2/80	12/17/80	OK	YES	<u> </u>	
F12261	21,26	2/80	12/17/80	OK	YES	<u> </u>	
F12263	21,12,26	2/80	12/17/80	OK	YES		MIDLAND -
12258	21,12,26	2/80	12/17/80	OK	YES		YES -31
12259	21,12	2/80	12/17/80	OK .	YES		YES X - 0
712257	21.26	2/80	12/17/80	UK	YES		CLASS I

NO.	NO's.	DATE	DATE	DATE	0.K.		Pg 27
F12335	34	3/4/80	3/19/80	ОК	YES		7
F13245	23	2/12/80	3/14/80	OK	YES		
F13246	34,66	2/12/80	3/14/80	66?	NO?		
F13247	34	2/12/80	3/14/80	ок	YES		
F13248	48	2/12/80	3/14/80	OK .	YES	<u> </u>	
F13249	5	2/12/80	3/14/80	OK	YES		
F13250	5	2/12/80	4/10/80	ОК	YES		
F13251	21	2/12/80	3/13/80	OK ·	YES		
F13252	34	2/12/80	3/13/80	OK	YES		
F13253	34	2/12/80	4/10/80	ОК	YES		
F13254	5,64	2/12/80	3/14/80	64 3/25/80	NO /		
F13255	23	2/12/80	3/14/80	ок	YES		
F13256	23	2/12/80	4/10/80	OK	YES		
F13258	54	2/12/80	3/14/80	OK .	YES		
F13257	54	2/12/80	3/14/80	OK	YES		
F13259	21	2/12/80	3/14/80	OK	YES		
F13261	23,54	2/12/80	3/14/80	OK	YES X		
F13260	34	2/12/80	3/14/80	OK	YES		
F11100	58	9/5/79	3/11/80	58?	NO? /	LATE MELTIN	
13262	54	2/12/80	3/13/80	OK .	YES		
11117	58	9/5/79	3/11/50	58?	NO?		
11104	34	9/5/79	3/11/80	OK .	YES		
2798	23,26	1/23/81	3/3/81	OK	YES		
3453	34,54	1/26/81	3/9/81	ОК	YES		
3452	34,12	1/27/81	3/4/81	ОК	YES	1	
13571	5,23	11/80	12/17/80	OK	YES		
13573	5154	11/80	12/17/30	OK	YES		
13504	54	11/80	12/5/80	OK .	YES	"YELLOW OUT" USED	MIDLAND
13503	12 /	11/80	12/5/80	OK	YES	TODAY OUT DEED	YES X - I
3499	34	11/80	12/2/80	OK	YES		NO -4

NO. *	NO's.	DATE	DATE	DATE	O.K.	0	MENTS .	Pg 28
F10468	26	12/3/79	2/18/80	OK	YES			J
F10354	21	12/19/79	2/18/80	OK	YES			
F10357	12	12/20/79	2/18/80	OK	YES			
F10349	34	12/19/79	2/18/80	ОК	YES			
F10353	21	2/18/80	2/18/80	ок	YES			
F10352	12	12/19/79	2/18/80	OK	YES		7	
F10351	26	12/19/79	2/18/80	OK	YES	Ayx:		
F10355	34	12/19/79	2/18/80	OK	YES			
F10348	34	12/19/79	2/18/80	ОК	YES			
F10356	39	12/19/79	2/18/80	OK	YES			
F10473	6,48	12/3/79	1/14/80	OK	YES X	A 964		12
F11050	26	9/4/79	3/11/80	26 3/25/80	NO /			
F11091	26	9/4/79	3/11/80	26 3/25/80	NO /			
F11118	58	9/4/79	3/11/80	58?	NO? /			
F10007	23	11/15/79	8/15/80	OK	YES			
F10011	6	11/15/79	8/15/80	OK	YES			
F11132	58	9/4/79	3/11/80	58?	NO? /			
F10012	39	11/15/79	8/15/80	OK	YES			
F10052	39	11/15/79	8/15/80	OK	YES			
F10055	6	11/15/79	8/15/80	OK	YES			
F10047	12	11/15/79	8/15/80	OK	YES			
F10054	5,39	11/15/79	8/15/80	OK.	YES X	14X- 1 x		
F10015	30	11/15/79	8/15/80	OK	YES			
F10056	48	11/15/79	8/15/80	OK	YES			
F10060	12 &	11/19/79	8/15/80	OK	YES	* * * * * * * * * * * * * * * * * * * *		
F10064	39	11/19/79	8/15/80	ОК	YES	**************************************		
F10065	39	11/19/79	8/15/80	OK.	YES	•		
F10069	6	11/19/79	8/15/80	OK .	YES			MIDLAND
F10070	48'	11/19/79	8/15/80	OK	YES	A 2 10 10 10 10 10 10 10 10 10 10 10 10 10		YES -
F10061	34	11/19/79	8/15/80	OK	YES			YES X -
210072		11/10/70	0/15/90	OK OK	VPC			CLASS

NO	NO's.	DATE	DATE	DATE	0.K.	COMENTS	P929
F5627	21,12	5/8/79	8/6/79	ок	YES X		,
F5626	21	4/17/79	8/6/79	ОК	YES		
F5625	34,21	4/18/79	8/6/79	ок	YES X		
F5623	34	4/26/79	8/7/79	ок	YES		
F5624	34,21	4/26/79	8/6/79	OK	YES X		
F5052	12,21	6/24/7.9	8/6/79	ОК	YES X		
F5628	21,34	4/17/79	8/7/79	OK	YES X		
F5629	12	5/8/79	8/6/79	ок	YES		
P2756	21,39,12	6/9/79	7/26/79	39 10/29/79	NO /		
F04407	12	3/5/79	6/5/79	ок	YES		
F04410	12	3/5/79	6/5/79	ок	YES		
F7405	12	2/12/79	6/5/79	OK	YES		
F04412	20,39	3/5/79	6/5/79	39 10/29/79	NO /		
F04411	20,39	3/5/79	6/5/.3	39 10/29/79	NO /		
F04409	12	3/5/79	6/5/79	OK	YES		
F04408	20,39	3/5/79	6/5/79	39 10/29/79	NO /		
F04406	12	3/5/79	6/5/79	ок	YES		
F4405	12	3/5/79	6/5/79	OK	YES		
F4404	20,39	3/5/79	6/5/79	39 10/29/79	NO - /		
F4277	21	3/5/79	6/5/79	OK	YES		
F11103	26	9/5/79	3/11/80	OK	YES	* > ** * * * * * * * * * * * * * * * *	
F11102	58	9/5/79	3/11/80	58?	NO? /	AND A	
F9127	12	11/30/79	3/7/80	OK	YES	798 38 7 48 48 3 	HAMELET S
F10470	21	11/27/79	2/18/80	OK	YES		
F10477	12	12/3/79	2/18/80	OK	YES		
F10476	12		2/18/80	OK	YES	1	
F10475	5		2/18/80	OK ·	YES		1
F10472	23		2/18/80	OK	YES		MIDLAND
F10350	34 ' ' .	12/19/79	2/18/80	OK :	YES	A STATE OF THE STA	YES X - 5
F10478	26		2/18/80	ОК	YES		NO -6
F10469	39		2/18/80		YES		CLASS I PLANT 2

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NO's.	DATE	DATE	DATE	O.K.	COMMENTS	Pg 30
12,21	2/80	2/10/81	ок	YES		J
12,21	2/80	2/10/81	OK	YES		
12	2/80	2/10/81	ОК	YES		
12	2/80	2/10/81	OK .	YES	1	
12,21	2/80	2/10/81	OK '	YES	*	
12,21	2/80	2/10/81	ОК	YES		
12	2/80	2/10/81	ок	YES	3 7485 7	
12,26	2/80	2/10/81	OK	YES	444	
21	2/80	2/10/81	ок	YES		
54,26,12	2/80	10/28/80	ок	YES	11 - 34	
34,21,26	11/80	12/3/80	24?	NO /	WHO IS 24?	
12,5,63,21	10/80	10/28/80	OK	YES		
26,5	12/80	1/5/81	OK	YES		
21,63	11/80	12/15/80	OK	YES		
21.63	11/80	12/15/80	OK	YES		
21,54	11/80	12/15/80	OK	YES		
12,54	11/80	12/15/80	ок	YES		
12.63	11/80	12/15/80	OK	YES "		
12,5	11/80	12/15/80	OK .	YES		
12,34	11/80	12/15/80	OK	YES		
26,54,21	11/80	1/6/81	OK .	YES		
12,21,34	11/80	12/15/80	OK .	YES		
23,5	11/80	1/6/81	OK	YES		
26,54	11/80	1/6/81	ок	YES		
23,54	11/80	1/6/81.	OK	YES		
26,21,	11/80	12/2/80	OK	YES	***	
26,12	11/80	1/6/81	ОК	YES		
26,12	11/80	1/6/81	OK .	YES X		MIDLAND
54 .	11/80	12/17/80	OK .	YES		YES -29
5,54	11/80	12/17/80	OK	YES		YES X - 2
	12,21 12 12 12,21 12,21 12,21 12,26 21 12,26 21 54,26,12 34,21,26 24,21,26 21,54 12,	12,21 2/80 12,21 2/80 12 2/80 12 2/80 12,21 2/80 12,21 2/80 12,21 2/80 12,26 2/80 21 2/80 24,26,12 2/80 34,21,26 11/80 24,56,3,21 10/80 26,5 12/80 21,63 11/80 21,54 11/80 12,54 11/80 12,54 11/80 12,54 11/80 12,54 11/80 12,54 11/80 12,54 11/80 12,54 11/80 26,54,21 11/80 26,54,21 11/80 23,5 11/80 26,54 11/80 26,54 11/80 26,54 11/80 26,12 11/80	12.21 2/80 2/10/81 12.21 2/80 2/10/81 12 2/80 2/10/81 12 2/80 2/10/81 12,21 2/80 2/10/81 12,21 2/80 2/10/81 12 2/80 2/10/81 12,26 2/80 2/10/81 21 2/80 2/10/81 24 12/26 1/80 10/28/80 34,21,26 11/80 12/3/80 12,5,63,21 10/80 10/28/80 26,5 12/80 1/5/81 21,63 11/80 12/15/80 21,63 11/80 12/15/80 21,63 11/80 12/15/80 21,54 11/80 12/15/80 12,54 11/80 12/15/80 12,54 11/80 12/15/80 12,5 11/80 12/15/80 12,34 11/80 12/15/80 26,54,21 11/80 1/6/81 26,54 11/80 1/6/81 26,54 11/80 1/6/81 <tr< td=""><td>12.21 2/80 2/10/81 OK 12.21 2/80 2/10/81 OK 12 2/80 2/10/81 OK 12 2/80 2/10/81 OK 12.21 2/80 2/10/81 OK 12 2/80 2/10/81 OK 12 2/80 2/10/81 OK 21 2/80 2/10/81 OK 21 2/80 2/10/81 OK 21 2/80 10/28/80 OK 34,21,26 11/80 12/3/80 24? 12,5,63,21 10/80 10/28/80 OK 26,5 12/80 1/5/81 OK 21,63 11/80 12/15/80 OK 21,63 11/80 12/15/80 OK 12,54 11/80 12/15/80 OK 23,5 11/80 1/6/81 OK 23,5 11/80 1/6/81 OK 23,5 11/80 1/6/81 OK 26,21, 11/80 1/6/81 OK 26,21, 11/80 1/6/81 OK 26,12 11/80 1/6/81 OK</td><td>12.21 2/80 2/10/81 OK YES 12,21 2/80 2/10/81 OK YES 12 2/80 2/10/81 OK YES 12 2/80 2/10/81 OK YES 12 2/80 2/10/81 OK YES 12,21 2/80 2/10/81 OK YES 12,26 2/80 2/10/81 OK YES 21 2/80 2/10/81 OK YES 21 2/80 2/10/81 OK YES 21 2/80 10/28/80 OK YES 34,21,26 11/80 12/3/80 247 NO / 12,5,63,21 10/80 10/28/80 OK YES 26,5 12/80 1/5/81 OK YES 21,63 11/80 12/15/80 OK YES 21,63 11/80 12/15/80 OK YES 21,54 11/80 12/15/80 OK YES 12,54 11/80 12/15/80 OK YES 12,34 11/80 12/15/80 OK YES 26,54,21 11/80 1/6/81 OK YES 26,54,21 11/80 1/6/81 OK YES 23,54 11/80 1/6/81 OK YES 26,54 11/80 1/6/81 OK YES 26,12 11/80 1/6/81 OK YES</td><td>12,21 2/80 2/10/81 OK YES 12,21 2/80 2/10/81 OK YES 12 2/80 2/10/81 OK YES 12 2/80 2/10/81 OK YES 12 2/80 2/10/81 OK YES 12,21 2/80 2/10/81 OK YES 12,21 2/80 2/10/81 OK YES 12,21 2/80 2/10/81 OK YES 12 2/80 2/10/81 OK YES 12 2/80 2/10/81 OK YES 12,26 2/80 2/10/81 OK YES 21 2/80 10/28/80 OK YES 34,21,26 11/80 12/3/80 247 NO WHO IS 247 12,5,63,21 10/80 10/28/80 OK YES 26,5 12/80 1/5/81 OK YES 21,63 11/80 12/15/80 OK YES 21,63 11/80 12/15/80 OK YES 21,54 11/80 12/15/80 OK YES 12,54 11/80 12/15/80 OK YES 26,54,21 11/80 1/6/81 OK YES 26,54 11/80 1/6/81 OK YES 26,54 11/80 1/6/81 OK YES 26,54 11/80 1/6/81 OK YES 26,12 11/80 1/6/81 OK YES</td></tr<>	12.21 2/80 2/10/81 OK 12.21 2/80 2/10/81 OK 12 2/80 2/10/81 OK 12 2/80 2/10/81 OK 12.21 2/80 2/10/81 OK 12 2/80 2/10/81 OK 12 2/80 2/10/81 OK 21 2/80 2/10/81 OK 21 2/80 2/10/81 OK 21 2/80 10/28/80 OK 34,21,26 11/80 12/3/80 24? 12,5,63,21 10/80 10/28/80 OK 26,5 12/80 1/5/81 OK 21,63 11/80 12/15/80 OK 21,63 11/80 12/15/80 OK 12,54 11/80 12/15/80 OK 23,5 11/80 1/6/81 OK 23,5 11/80 1/6/81 OK 23,5 11/80 1/6/81 OK 26,21, 11/80 1/6/81 OK 26,21, 11/80 1/6/81 OK 26,12 11/80 1/6/81 OK	12.21 2/80 2/10/81 OK YES 12,21 2/80 2/10/81 OK YES 12 2/80 2/10/81 OK YES 12 2/80 2/10/81 OK YES 12 2/80 2/10/81 OK YES 12,21 2/80 2/10/81 OK YES 12,26 2/80 2/10/81 OK YES 21 2/80 2/10/81 OK YES 21 2/80 2/10/81 OK YES 21 2/80 10/28/80 OK YES 34,21,26 11/80 12/3/80 247 NO / 12,5,63,21 10/80 10/28/80 OK YES 26,5 12/80 1/5/81 OK YES 21,63 11/80 12/15/80 OK YES 21,63 11/80 12/15/80 OK YES 21,54 11/80 12/15/80 OK YES 12,54 11/80 12/15/80 OK YES 12,34 11/80 12/15/80 OK YES 26,54,21 11/80 1/6/81 OK YES 26,54,21 11/80 1/6/81 OK YES 23,54 11/80 1/6/81 OK YES 26,54 11/80 1/6/81 OK YES 26,12 11/80 1/6/81 OK YES	12,21 2/80 2/10/81 OK YES 12,21 2/80 2/10/81 OK YES 12 2/80 2/10/81 OK YES 12 2/80 2/10/81 OK YES 12 2/80 2/10/81 OK YES 12,21 2/80 2/10/81 OK YES 12,21 2/80 2/10/81 OK YES 12,21 2/80 2/10/81 OK YES 12 2/80 2/10/81 OK YES 12 2/80 2/10/81 OK YES 12,26 2/80 2/10/81 OK YES 21 2/80 10/28/80 OK YES 34,21,26 11/80 12/3/80 247 NO WHO IS 247 12,5,63,21 10/80 10/28/80 OK YES 26,5 12/80 1/5/81 OK YES 21,63 11/80 12/15/80 OK YES 21,63 11/80 12/15/80 OK YES 21,54 11/80 12/15/80 OK YES 12,54 11/80 12/15/80 OK YES 26,54,21 11/80 1/6/81 OK YES 26,54 11/80 1/6/81 OK YES 26,54 11/80 1/6/81 OK YES 26,54 11/80 1/6/81 OK YES 26,12 11/80 1/6/81 OK YES

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NO.	NO's.	DATE	DATE	DATE	O.K.	COMMENTS	Pa 31
P3416	26,5	1/16/81	2/11/81	9/19/80	YES		1931
P3415	26	1/15/81	2/11/81	9/19/80	YES	- 210	
F2521	63,5	1/7/81	2/9/81	9/19/80	YES	*****	
P503	12,48	10/79	11/8/79	OK	YES	*** **** /***)¥	
P502	12,48	10/79	11/8/79	OK	YES	**************************************	
P1229	34	8/79	10/11/79	OK	YES	*** *** ***	
F5405	34	5/79	11/5/79	OK	YES		
F9252	21	8/79	11/5/79	ОК	YES	***	
₹9260	34,6	8/79	11/2/79	6	NO /	6 NOT QUALIFIED TO P	9CS
F9380	34	9/79	11/2/79	OK	YES	* **	
F9381	12	9/79	11/1/79	OK	YES		
P1305	21,6	9/79	10/29/79	6	NO /	6 NOT QUALIFIED TO P	9CS
P1308	12,48	9/79	10/30/79	48	. NO /	48 QUALIFIED TO P9CS	
P1350	34,5,21	9/79	10/30/79	ок	YES X	P5CS	
F8430	34	8/79	10/24/79	OK	YES		
F11170	21	8/79	10/24/79	OK	YES	**	
F11171	21,26	8/79	10/24/79	26	NO /	26 QUALIFIED PSCS 10	/29/79
F11176	21,6	8/79	10/24/79	6	NO /	6 QUALIFIED PSCS 10/2	29/79
F11180	12	8/79	10/24/79	OX	YES		
F11179	34,39	8/79	10/24/79	ОК	YES *		
r11181	21	8/79	10/24/79	OK	YES		The same of the
11182	34,39	8/79	10/24/79	OK	YES. X	*****	
11192	12	8/79	10/22/79	OK	YES	7141 - F 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
11199	21	8/79	10/22/79	OK	YES	** **** *	
11205	34,26	8/79	10/24/7.9	26	NO /	26 QUALIFIED PSCS 10	/29/79
11208	34	8/79	10/22/79	OK.	YES	A	
11209	12,39	8/79	10/22/79	39	NO /	39 QUALIFIED PSCS	
2776	54	1/81	2/19/81	OK .	YES		MIDLAND
13716	21,63,5	12/80	1/23/81	OK .	YES X		YES - 20
3397	63	12/80	2/9/81	ок	YES		YES X - 4
3396	63	12/80	2/9/81	ок	YES		CLASS I

NO.	NO's.	DATE	DATE	DATE	O.K.	COMENTS	fg 32
P3829	63	7/10/81	8/12/81	OK WPS-1	YES		19 30
P3828	63	7/10/81	8/11/81	CK WPS-1	YES	1962 45 31-4	
P3791	63	7/1/81	8/11/81	OK WPS-1	YES	000 mm was 120 mm	
P3790	63	7/1/81	8/11/81	OK WPS-1	YES		
P670	63	6/17/81	8/10/81	OK WPS-1	YES		
P669	9	6/17/81	8/10/81	OK WPS-1	YES X	9 NOT IDENTIFIABLE	
P668	9	6/17/81	8/10/81	OK WPS-1	YES X	9 NOT IDENTIFIABLE	
P648	63	6/10/81	8/10/81	OK WPS-1	YES		
P596	63	6/5/81	8/11/81	OK WPS-1	YES		
P593	63	6/10/81	8/10/81	OK WPS-I	YES	10 14:0 4:44 1	
F13747	34	12/10/80	5/29/81	OK WPS-1	YES	X 42 - 42 - 5	
F13739	23	12/10/80	5/28/81	OK WPS-1	YES		
F13738	12	12/10/82	5/29/81	OK WPS-1	YES		
F13737	63	12/10/80	5/28/81	OK WPS-1	YES		
F13736	34	12/10/80	5/28/81	OK WPS-1	YES		
F17066	21	8/26/81	9/22/81	OK WPS-1	YES		
F17073	34	8/26/81	9/14/81	OK WPS-1	YES		
F17074	54	8/26/81	\$/25/81	OK WPS-1	YES		
F17075	21	8/26/81	9/24/81	OK WPS-1	YES		
F17076	21	8/26/81	9/24/81	OK WPS-1	YES	+ 4 4	
17123	52,21	0/31/81	9/21/81	OK WPS-1	YES		
F17124	21,52	8/31/81	9/21/81	OK WPS-1	YES	****	
17125	52,21	8/1/81	9/21/81	OK WPS-1	YES	****	
17402	21,63	8/13/81	9/4/81	OK WPS-1	YES		
17424	21,63	8/14/81	9/4/81	OK WPS-1	YES		
17067	34	8/26/81	9/16/81	OK WPS-1	YES		
17,425	63	8/17/81	9/29/81	OK WPS-1	YES		
17071	63	8/26/81	9/15/81	OK WPS-1	YES		MIDLAND
17070	9'	8/26/81	9/15/81	OK WPS-1	YES X	9 NOT IDENTIFIABLE	YES - 37
17437	9	8/17/81	9/29/81	OK WPS-1	YES X	9 NOT IDENTIFIABLE	YES X - 4
17439	63	8/17/81	9/29/81	OK WPS-1	YES		CLASS I PLANT 2

NO.	No's.	DATE	DATE	DATE	O.K.	COMMENTS	Pq 33
F17440	54	8/17/81	9/29/81	OK WPS-1	YES	A STATE OF THE STA	1935
F17443	54	8/17/81	9/29/81	OK WPS-1	YES		
P548	52,9	8/31/81	9/21/81	OK WPS-1	YES X	9 NOT IDENTIFIABLE	
P667	63	6/17/81	8/10/81	OK WPS-1	YES	E	
P3946	21	8/11/81	9/4/81	OK WPS-1	YES		
F17453	9:	8/17/81	9/29/81	OK WPS-1	YES X	9 NOT IDENTIFIABLE	
F17442	9	8/17/81	9/29/81	OK WPS-1	YES X	9 NOT IDENTIFIABLE	
F17441	63	8/17/81	9/29/81	OK WPS-1	YES		
F15505	34	6/25/81	8/7/81	OK WPS-1	YES		
F15556	34	7/1/81	8/12/81	OK WPS 1	YES	441, 441	
F15557	34	7/1/81	8/12/81	OK WPS-1	YES	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
P3451	5,34	1/24/81	2/19/81	OK WPS-1	YES		See It was
P3775	21	4/1/81	4/21/81	WPS-1	YES	WELDING PROCEDURE NO CIRCLED ON TRAVELER	T
P2834	6	8/27/79	12/7/79	OK P5CS	YES	CINCLED ON INAVELER	
F2143	34	4/17/81	5/29/81	OK WPS-1	YES		
F17115	9	9/1/81	10/8/81	WPS-1	YES ?	2 - #9's, UNABLE TO !	DISTINQUISH
P3448	34,21	1/24/81	2/19/81	OK WPS-1	YES	WAICH ONE	
P3447	54	1/24/81	2/19/81	OK WPS-1	YES	-	
F17116	63	9/1/81	10/12/81	OK WPS-1	YEŞ		
F13732	12	12/10/80	5/27/81	OK WPS-1	YES		
13731	5	12/10/80	5/27/81	OK WPS-1	YES		
P13730	12	12/10/80	5/26/81	OK WPS-1	YES .	The Allerton of the Angelow	
2221 .	21,12	4/1/81	5/6/81	OK WPS-1	YES	99	
2053	23,21	3/26/81	5/7/81	OK WPS-1	YES		
1937	23	3/13/81	5/7/81	OK WPS-1	YES		
3774	23	3/27/81	5/7/81	OK WPS-1	YES	/	
1181	12,20	9/22/79	1/9/81	OK WPS-1	YES X	OUT ON COPY GP	
1668	34	12/21/79	12/24/80	OK WPS-1	YES		MIDLAND
1186	34	9/14/79	12/23/80	OK WPS-1	YES		YES -37
664	34	12/20/79	12/24/80	OK WPS-1	YES		YES X - 4
653	34	12/18/79	12/23/80		YES .		CLASS I PLANT 2

NO.	NO's.	DATE	DATE	DATE	O.K.	COMENTS fa 34	,
F8726	12,63,34	9/13/79	12/17/80	9/19/80 8/27/80	YES X	VANE WELDER 34 NOT	-
F8570	34	8/30/79	2/9/81	4/22/76	YES		
F8572	20,6	8/30/79	2/9/81	12/10/76 10/29/79	YES X	WELDER 6 ON COPY	_
F02636	26,12	1/16/81	2/11/81	9/19/80 3/31/81	NO /	MPS NOT CIRCLED, WELDER 12 NOT QUALIFIED FER WPS-2, 26 QUALIF	
				A . A	A MAKE C	AFTER WORK DATE WPS-2	
F02635	26,12	1/16/81	2/11/81	9/19/80	NO /	WPS NOT CIRCLED, WELDER 12 NOT QUALIFIED FOR WPS-2, 26 QUALIS AFTER WORK DATE WPS-2	
		10000		1 0 V	V 699 3344	AFTER WORK DATE WPS-2	
F02633	23,12	1/16/81	2/11/81	9/19/80	YES		
F02632	23,12	1/16/81	2/11/81	9/19/80	NO V	WPS NOT CIRCLED, ID DATE DOES ! MATCH WELDER 23, 12 NOT QUALIF:	
101				The second of th	to the test of	FOR WPS-2	
F02630	26,54	1/16/81	2/11/81	9/19/80	NO /	WPS NOT CIRCLED, WELDER 54 NOT QUALIFIED FOR WPS-2 WELDER 26 QUALIFIED AFTER WORK DATE WPS-2	
					100	SOUTHING WITH MOUNDAIR MAS-	4
F02628	26,12	1/15/81	2/11/81	9/19/80	YES ?	WELDER 26 ON COPY (VANES) ?	
F02626	26,34	1/15/81	2/11/81	9/19/80 8/27/80	YES		
F02624	23,54	1/15/81	2/11/81	9/19/80	YES		
F2663	26	1/17/81	2/11/81	9/19/80	YES		
F2662	26	1/16/81	2/11/81	9/19/80	YES		
F2657 ·	23	1/17/81	2/11/81	9/19/80	NO /	WPS NOT CIRCLED, WELDER 23 NOT QUALIFIED FOR WPS-2	
F2656 .	23	1/17/81	2/11/81	9/19/80	NO '	WELDER 26 ON COPY (VANE) ? WELDER NOT QUALIFIED FOR WPS-2	_
P3023	21,54	12/9/80	1/23/81	9/19/80	NO -	WPS NOT CIRCLED, WELDER 21 & 54 NOT QUALIFIED FOR WPS-2	
F13765	21,34	12/10/80	1/23/81	9/19/80 8/27/80	YES	NOT QUALIFIED FOR WPS-2	-
F13764	21,34	12/10/80	1/23/81	9/19/80 8/27/80	NO .	WPS NOT CIRCLED, WELDER 21 NOT QUALIFIED FOR WPS-2	
F13746	21,23	12/10/80	1/23/81	9/19/80	NO /	WPS NOT CIRCLED, WELDER 21 & 23 NOT QUALIFIED FOR WPS-2	
F13719	21,63	12/9/80	1/23/81	9/19/80	NO ,	WPS NOT CIRCLED, WELDER 21 & 63 NOT QUALIFIED FOR WPS-2	_
F13718	21	12/9/80	1/23/81.	9/19/80	NO /	WPS NOT CIRCLED, WELDER NOT QUALIFIED FQR WPS-2	_
F13717	21,5	12/9/80	1/23/81	9/19/80	NO /	WPS NOT CIRCLED, WELDER 21 & 5 NOT QUALIFIED FOR WPS-2	-
P3432	23,5	1/17/81	2/11/81	9/19/80	YES	Ton Man 2	
P3432	23,5	1/17/81	2/11/81	9/19/80	YES	MIDLAND	
P3418	26,5	1/16/81	2/11/81	9/19/80	YES	YES - YES X -	
P3420	26,54	1/17/81	2/11/81	9/19/80	YES		12 :
P3417	26,5	1/16/81	2/11/81	9/19/80	YES	CLASS I PLANT 2	

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NO.	NO's.	DATE	DATE	DATE	O.K.	
P1652	34	12/18/79	12/23/80	OK WPS-1	YES	COMMENTS 9435
P1651	34	12/18/79	12/22/80	OK WPS-1	YES	2 AND 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
P1297	20,21	9/13/79	1/12/81	OK WPS-1	YES	
P1224	34,20	8/30/79	1/5/81	OK WPS-1	YES ?	OUT ON COPY_RM
P1180	21,20	9/22/79	1/9/81	OK WPS-1	YES	
P1202	5.	9/4/79	2/9/81	OK WPS-1	YES	OUT ON COPY WJ
P1188	12,21,	9/14/79	12/17/80	OK WPS-1	YES	Y ***
F2359	34	12/30/80	2/10/81	8/27/80	YES	-1 M - 12 1
P3402	63	12/30/80	2/10/81	9/19/80	YES	
P3406	34	12/30/80	2/10/81	8/27/80	NO	NO WELDER ID FOR FITTING
P3405	34	12/30/80	2/10/81	8/27/80	YES	
P3404	34,5	12/30/80	2/10/81	8/27/80 9/19/80	YES	
P3403	3454	12/30/80	2/10/81	8/27/80 9/19/80	YES	· · · · · · · · · · · · · · · · · · ·
F2326	21,63	12/30/80	1/23/81	9/19/80	YES	
F2320	21,34	12/2/80	1/23/81	9/19/80 8/27/80	NO /	WPS NOT CIRCLED, WELDER 21 NOT
F2301	34	12/3/80	2/9/81	8/27/80	NO ,	QUALIFIED FOR WPS-2 WPS NOT CIRCLED
F13720	21,63	12/9/80	1/23/81	9/19/80	NO /	WPS NOT CIRCLED, WELDER 21,53
F2683	34	1/28/81	2/27/81	8/27/80	YES	NOT QUALIFIED FOR WPS-2
F2682	63	1/27/81	2/27/81	8/19/80	YES	
F2681	34	1/28/81	2/27/81	8/27/80	YES	
F1980	20	3/5/81	5/19/81	9/19/80	YES	
F2680	63	1/27/81	2/27/81	9/19/80	YES	
F8934 ·	12	9/22/79	2/9/81	2/3/80	YES	
F8933	5,20	9/22/79	1/9/81	9/19/80	YES	0 00 p
F8932	21		2/9/81	10/29/79	YES	
F8931	54,20	9/22/79	1/9/81	12/10/76	YES	The state of the s
789,30	12	9/22/79	2/9/81	2/3/80	YES	*
78929	34	9/22/79	2/9/81	4/22/76	YES	MIDLAND
78911	34,21	9/22/79	12/24/80	50.2 2047 17.5	YES	YES -27
8909	21	-	2/9/81	2/3/80	YES	YES X - 0
20000	20 .	F/30/35	2 /0 /03	10/10/06		CLASS I

NO.	NO's.	DATE	DATE	DATE	0.K.	COMENTS Pg 36
F6478	34	7/16/79	2/9/81	4/22/76	YES X	DI (?) CLEANER ?
F6476	34	7/16/79	2/9/81	4/22/76	YES X	DI (?) CLEANER ?
F6477	34	7,16/79	2/9/81	4/22/76	YES X	DI (?) CLEANER ?
F6473	21	7/16/79	2/9/81	2/3/80	YES	
F6474	21	7/16/79	.2/9/81	2/3/80	YES	
F6471	20,52 (?)	7/16/79	2/9/81	12/10/76 3/15/80	YES X	GP ON COPY
F6469	20	7/16/79	2/9/81	12/10/76	YES	con the
F14851	12	6/16/81	8/7/81	9/19/80	NO /	WELDER 12 NOT QUALIFIED FOR WPS-2
F14821	34	6/11/81	8/7/81	8/27/80	YES	
F14820	34	6/11/81	8/10/81	8/27/80	YES	
F14819	34	6/11/81	8/10/81	8/27/80	NO /	RM (?) ON COPY
F14817	34	6/10/81	8/11/81	8/27/80	YES	
F14588	34	6/5/81	8/10/81	8/27/80	YES	
F14587	34	6/5/81	8/10/81	8/27/80	YES	
F14586	63	6/5/81	8/12/81	9/19/80	NO /	WELDER NOT QUALIFIED FOR WPS-2
F14582	34	6/1.1/81	8/12/81	8/27/80	YES	HELDER HOT YORDSTEED TON HES-E
F14182	63,6	5/8/1	8/12/81	12/31/80	000 00	
F13735	5	12/10/81		9/19/80 5/14/8		
F13734	63		5/28/81	OK WPS-1	YES	
F13733	23	12/10/80	5/27/81	OK WPS-1	YES	
				OK WPS-1	YES	
F15555	34	7/2/81	8/12/81	OK WPS-1	YES	
F15554	34	7/2/81	8/12/81	OK WPS-1	YES.	
F15504	34	6/25/81	8/12/81	OK WPS-1	YES	00 st t
F15503	34	6/25/81	8/10/81	OK WPS-1	YES	*(k. ms. tc
F15502	34	6/25/81	8/7/81.	OK WPS-1	YES	
F14864	34	6/17/81	8/11/81	OK WPS-1	YES	
F14866	34	6/17/81	8/11/81	OK WPS-1	YES	-
F14865	34	6/17/81	8/7/81	OK WPS-1	YES	MIDLAND
F14863	63'	6/17/81	8/13/81	OK WPS-1	YES	YES - 24
F14862		6/17/81	7/30/80	OK WPS-1	YES	YES X - 4
P7 41 no		5/8/81	8/12/81	ON WDG-1	vee	CLASS I

NO	NO's.	DATE	DAT	A con page o	0.K.	COMMENTS	0
P3010	54,23	1/28/8	1	ОХ	YES	- CO. 12113	Pg 37
F2794	34,5	1/26/8	1	OK .	YES	7 200	
F2779	54,26	1/24/8		OK	YES	128. 7 - 1 20-2	
F2782	54,12,34	1/24/83		CK	YES	142 +f-1 AV 14	
F2778	54,23	1/24/81		OK	YES	*	
F2777	54,26	1/23/81		OK	YES	444	
F2786	12,34	1/24/81		OK		*** AFF ***	
F2785	34,12,5	1/24/81		ок		2200 Y 12	
F2783	54,21,34	1/24/81		OK	YES		
F2781	54,21,34	1/24/81	1	OK	YES X	A BE OF S	
F2780	54,21,23	1/24/81		OK	YES X	Land of	
F2774	34,12	1/23/81		ОК	YES	- A	
F2768	63,26	1/23/81		77.70	NO '	26 & 63 NOT QUALIFIE	ED FOR WDS-2
F2756	5,54	1/23/81	T -	OK	YES		
F2748	5,63,12	1/23/81		ОК	YES X		
F2599	5,63	1/23/81		OK	YES		
F2767	26,12	1/23/81		OK	YES		
F2809	54,5	1/28/81		OK	YES		
F2327	63,26	1/28/81		QK .	YES		
P3075	63,26	12/17/80	78.127		NO /	63 t 26 NOT OUR	
F02643	23,26,12	1/17/81		1 - 1 1 1 1 1 1 1 1 1 1 1	NO /	12, 23 & 26 NOT QUALIFIED	
P02638	26,21	1/16/81	2.11.22	OK	YES	WPS-2	
P02642	23,26	1/17/81	deres	1 - 1	NO /	26 & 23 NOT QUALIFIED	
02641	23,5	1/17/81		2 18 4 86 W 1837 Yest	NO /	1	_
8571	12,23	8/30/79	2/9/81 .	2/3/60	YES X	WELDER 23 ON COPY	FOR WPS-2
8569	21,20,6	8/30/79	1/12/81	10/29/79	2.4 1211		
8568	20,23	8/30/79	1/12/81	2/3/80 12/10/7	The second second	LP NOT LISTED	
8567	21	8/30/79	2/9/81	2/3/80	YES X	WELDER 23 ON COPY	MIDLAND
6481	34		2/9/81	4/22/76		DT (2) CTTUE	YES -17
6480	34					DI (?) CLEANER ?	YES X - %
6479	39,20	7/16/79	2/9/81	19/18/78	YES ?	DI (7) CLEANER ?	CLASS I

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NO.	NO's.	DATE	DATE	DATE	O.K.	COMMENTS	A 36
F10922	21,54	1/23/80	9/18/81	OK WPS-1	YES	Branch Barry	736
F12332	21,54	2/18/50	9/18/81	OK WPS-1	YES	1988 10 20 20	
F15879	21,34	8/11/81	9/4/81	OK WPS-1	YES		
F17122	52,63	8/31/81	9/21/81	OK WPS-1	YES	t	
F15891	21	8/11/81	9/4/81	OK WPS-1	YES	TANEST E	
F02639	26	1/17/81			NO	26 NOT QUALIFIED FOR W	rps-2
F02637	26,12	1/16/81		D	NO	26 & 12 NOT QUALIFIED	
F2043	34	3/27/81	Diego Bi	OK	YES		*)
F1977	20	3/5/81	T.E. T.	OK	YES	12 APV2	
F2042	34	3/27/81	"""	OK	YES	v	
P661	52,21	6/16/81		1970 X27 38	NO /	52 & 21 NOT QUALIFIED	FOR WPS-2
P660	52,54	6/16/81		The dealer agency 250 Acc	NO /	52 & 54 NOT QUALIFIED	
P659	52,23	6/16/81	17,39.39	V 14 x 1140 pt.	NO /	52 & 23 NOT QUALIFIED	
P658	52,23	6/16/81	1	** **	NO/	52 & 23 NOT QUALIFIED	
P657	52,23	6/16/81		5 18 h 1 h 2 m	NO /	52 & 23 NOT QUALIFIED	FOR WPS-2
P3619	63	3/30/81		(8.0) - 1 - 2(1) - 1	NO /	63 NOT QUALIFIED FOR W	
P3602	63,34	3/27/81	1.50		NO /	63 NOT QULALIFED FOR W	PS-2
F2052	12,23	3/27/81	Et., ri	ОК	YES		
F2032	12,23	3/30/81		XIII - XX - XX - XX - XX - X	NO · ·	12 & 23 NOT QUALIFIED I	FOR WPS-2
F2031	5,23,12	3/30/81	2.000		NO /	5, 23 & 12 NOT QUALIFIE WPS-2	
F2223	12,23,21	4/1/81			NO /	12, 23 & 21 NOT QUALIFI	ED FOR
F2023	12,63	3/31/81	L HARREN	. e × e = 1X = = 10 1 + 2 - 3 + 2	NO /	WPS-2 12 & 63 NOT QUALIFIED E	FOR WPS-2
F1877	63,12	3/20/81		ОК	YES	*** *** *	
F1925	34	3/17/81		OK	YES	THE REAL PROPERTY OF THE PARTY	
F2009	12	3/31/81		V WENT THE TANK	NO .	12 NOT QUALIFIED FOR WE	PS-2
F2014	34,63	3/31/81		0.000	NO /	63 NOT QUALIFIED FOR WE	
F2022	12,34	3/31/81		* 98 * *** ** ** *** *** *** *** *** ***	NO /	12 NOT QUALIFIED	
F13759	23	12/11/80		1 1 100 110		FOR WPS-2	MIDLAND
P3446	26	1/24/81		OK	YES		YES - 15
P3431	21,54	1/17/81		OK	YES		YES X - 0
		-/1//81			143		CLASS I

NO.	NO's.	DATE	DATE	DATE	O.K.	2010.000
F9217	34	11/6/79	12/31/80	OK WPS-1	YES	- CAMENIS PG 3
F9015	20	10/2/79	2/9/81	OK PSCS	YES X	OUT BS
F8943	21	9/23/79	2/9/81	OK P5CS	YES X	OUT ID
F8942	21	9/22/79	2/9/81	OK P5CS	YES X	OUT ID }
F8939	20	10/22/79	1/12/81	OK WPS-1	YES X	OUT TW .
F8941	12	9/22/79	2/9/81	OK P5CS	YES	W W
F8940	34	9/22/79	2/9/81	OK P5CS	YES	
F8938	5	9/22/79	2/9/81	OK P5CS	YES	
F8937	21	9/22/79	2/9/81	OK P5CS	YES	
F8936	21	9/22/79	2/9/81	OK PSCS	YES	· · · · ·
F8935	5	9/22/79	2/9/81	OK PSCS	YES	
F2312	26,5	10/20/80	1/6/81	OK WPS-1	YES	
P1665	23	12/20/79	10/31/80	OK WPS-1	YES	
P1663	23	12/20/79	10/31/80	OK WPS-1	YES	
F1538	34	8/27/79	2/9/81	OK P5CS	YES X	OUT GP (26)
P3726	21,9	8/14/81	9/4/81	OK WPS-1	YES	9 NOT IDENTIFIABLE
F11286	12	8/29/79	10/22/79	OK PSCS	YES	
F11207	21	8/29/79	10/15/79	OK P5CS	YES	·
F5832	34	3/27/79	9/20/79	OK PSCS	YES	
F6467	21	7/14/79	9/21/79	OK P5CS	YES X	EJ NOT CIRCLED (COPY)
F4460	12	3/13/79	5/23/79	OK PSCS	YES	
				. 20 . 1 20		DR NOT CIRCLED (COPY)
F17428	21,9	8/17/81	9/4/81	OK WPS-1	YES X?	9 NOT IDENTIFIABLE
F17429	21,63	8/14/81	9/4/81	OK WPS-1	YES	the manufacture of the second
F17431	21	8/17/81	9/4/81	OK WPS-1	YES	
F17430	21,34	8/14/81	9/4/81	OK WPS-1	YES	*
F17427	21	8/14/81	9/4/81	OK WPS-1	YES	-
F17426	21 '	8/14/81	9/4/81	OK WPS-1	YES	MIDLAND
F17425	21		9/4/81	OK WPS-1	YES	YES -
F10732	21,9		9/18/81	OK WPS-1		9 NOT IDENTIFIABLE NO -

NO.	No's.	DATE	DATE	DATE	0.K.	COMMENTS	Pg 40
F13740	12	12/10/8	0	0.K.	YES	STATE OF THE PARTY.	19 40
F13751	23	1/8/81		0.K.	YES	1.244-0.3	
F13758	DG,12	1/8/81		DG	NO V	CAN'T DETERMINE DG	
F13757	5	1/8/81		о.к.	YES		
F13756	JL,23	1/8/81		JL	NO '	CAN'T DETERMINE JL	
F13755	34	12/11/80		0.K.	YES	*******	
F13754	34	12/11/80		0.K.	YES		
F13753	63	12/11/80		0.x.	YES	7.3.1.3. 5.1.1.	
F13752	12	12/11/80	TO ALCOHOLD	O.K. "	YES		
F13750	5	12/11/80		o.x.	YES	****	
F13748	DG,5	12/10/80	i E Vari	DG	NO /	CAN'T DETERMINE DG	
F13749	63	1/8/81		0.x.	YES		
P1306	34,54	10/1/79	1/14/80	54-1/22/80	NO /		
P1187	23,12,21	9/14/79	12/18/80	OK WPS-1	YES		
P1182	12,20	9/22/79	1/8/81	OK WPS-1	YES X?	HM ON COPY, NOT CIRCLE	ED
P1179	21	9/22/79	2/9/81	OK WPS-1	YES	*	
P1178	20,21	9/22/79	1/12/81	OK WPS-1	YES X	GP ON COPY, NOT CIRCLE	ED
		1.0		D * 1 0 0 2 200 0		BS,MDS,RM,DW - NOT CI	
P1177	34,20		1/12/81	OK WPS-1	YES X	OUT ON COPY - GP,RM .	
P1106	21,20	7/16/79	1/12/81	OK WPS-1	YES X	OUT ON COPY - WJ	
P1105	21,20	7/16/79	1/12/81	OK WPS-1	YES X	OUT ON COPY - WJ	
P1104	20,21	7/16/79	1/12/81	OK WPS-1	YES X?	OUT ON COPY - WJ	
P1103	34,20	7/16/79	1/12/81	OK WPS-1	YES X?	OUT BS ON COPY	
P507	5	10/10/79	2/9/81	OK WPS-1	YES	DL - NO PERSON ON FILE	
F13540	26,21	11/25/80	1/6/81	OK WPS-1	YES		
F13539	23,63	11/25/80		OK WPS-1		A	
F10643	23	12/20/79	10/30/80	OK WPS-1	YES		
F10641	23 ·	12/20/79		OK WPS-1	YES		MIDLAND
F10638	23/	12/20/79		OK WPS-1	YES		YES A
F10637	23	12/20/79		OK WPS-1	YES		YES X -7
F9567	34	9/13/79		OK WPS-1	YES		CLASS I

NO. "	NO's.	DATE	DATE	DATE	0.K.	COMENTS .	P941
F8727	12,21	9/13/79	12/17/80	OK WPS 1	YES X	34 ADDED TO COPY 12/17/80	0
P3609	12,21,23	3/30/81	4/30/81	OK WPS 1	ÝES	b.14	
P3610	34,63,23	3/30/81	4/3/81 .	OK WPS 1	YES	11.00 (
F2807	63,34,21	1/28/81	2/19/81	OK WPS 1	YES	10 00 100 1.	
F13608	21,26	11/22/80	1/22/81		YES	AND HOLDER	
P500-	34	10/10/79	11/7/79	OK P5	YES	100 to 10	
P2833	6	8/27/79	12/7/79	NO P5	NO /	RK NOT CIRCLED ON COPY	
F10423	6,JDT	12/8/79	1/10/80	NO PS	NO /	RK NOT CIRCLED ON COPY	
F10424	6 JDT	12/8/79	1/10/80	NO PS	NO Y	RK NOT CIRCLED ON COPY	
F10425	6,JDT	12/8/79	1/10/80	NO P5	NO :	RK NOT CIRCLED ON COPY	
F10426	6,JDT	12/8/79	1/10/80	NO PS	NO ×	JDT NOT QUALIFIED RK NOT CIRCLED ON COPY JDT NOT QUALIFIED	
F10492	6,JDT	11/29/82	1/10/80	NO PS	NO /	OUT TW ON COPY TW NOT QUALIFIED	
10010	48	11/3/79	1/10/80	OK P5	YES		
10072	6	11/5/79	1/15/80	NO P5	NO ,	RK NOT CIRCLED ON COPY	
10062	6	11/5/79	1/14/80	NO P5	NO ,	RK NOT CIRCLED ON COPY	
13617	21	11/22/80	1/22/81	OK WPS 1	YES		
13607	21,63	11/22/80	1/22/81	OK_WPS 1	YES		
13574	21,23	11/21/80	1/22/81	OK WPS 1	YES		
495	21	8/29/79	10/10/79	NO P5	NO-	RK & DW LISTED ON COPY	
5817	34	4/14/79	8/27/79	NO P5	NO /	OUT BS ON COPY	
6485	34	7/17/79		NO P5	NO '	OUT BS ON COPY	
1114	21	7/12/79	10/1/79	NO P5	NO /	OUT DW NOT QUALIFIED	
1115	34		10/3/79	NO P5	NO	OUT WJ ON COPY - NOT QUALIF	
1107	21 L		9/17/79	OK P5	YES	OUT WO ON COPT - NOT QUALIT	TED
9259	21 .		11/5/7-!	NO P9	1011 1010 111	DW ON COPY - #0 QUALIFIED.	
8952	21		10/31/79	NO P9	CV - 4 Y - 2003 14	RK ON COPY - HO QUALIFIED.	-
8951	21		10/31/79	NO P9	1111 1 1 11	RK ON COPY	
2704	34,63,21		2/18/81	OK WPS 1	YES		DLAND
	,				- 10 Mar - 1	YE	S X - 1

ATTACHMENT #2

INITIAL CATEGORIZATION OF

MIDLAND CLASS 1 CATEGORY 3 ("NO") TRAVELERS

Sept. 28, 1982

CATEGORIES

- A. DATE DISCREPANCIES BETWEEN ISSUE DATE, WORK DATE, INSPECTION DATE.
- B. NO WELD PROCEDURE ON TICKET.
- C. TWO (2) WELD PROCESSES LISTED WELDER QUALIFIED TO ONE (1) ONLY OR NEITHER.
- D. WELDER NEVER QUALIFIED, AND/OR UNIDENTIFIABLE
 INITIALS ON COPY. (ARE INITIALS WELDER,
 INSPECTOR OR CLEANER?)
- E. WELDER NOT QUALIFIED, BUT QUALIFIED AT LATER DATE.
 - 1. AT TRAVELER ISSUE DATE (NO WORK DATE AVAILABLE)
 - 2. AT WORK DATE
- F. MISCELLANEOUS OTHER.

TRAVELER NO.	PAGE	CATEGORY	COMMENTS
F-6656	1	D	-TRAVELER VOIDED-
F-6654	1	D	
F-6652	1	D	-TRAVELER VOIDED-
F-6648	1	D	-TRAVELER VOIDED-
F-6644	1	D	-TRAVELER VOIDED-
F-6643	1	D	-TRAVELER VOIDED-
F-6642	1 .	D	-TRAVELER VOIDED-
F-4425	2	· D	Unidentifiable intials on copy
F-4399	2	. D	•
F-4398	2	0	•
F-4397	2	D	• • • • • • • • • • • • • • • • • • • •
F-4271	2	D .	
F-4269	2	D	
F-4284	2	D	
F-4279	2	(D	
F-2462	2	D	
F-4276	3	D	
F-4275	3	D	
P-2464	3	מ־	
F-4424	3	Ď	
F-804	4	P	No Dates/Qualification status undetermined
F-11202	6	E (2)	Welder #26 & #39
F-11206	6	E (2)	Welder #39
F-11210 4	6	E (2)	Welder #39
F-11211 *	6	E (2)	Welder #26 -TRAVELER VOIDED-
F-11200	6	E (2),D	Weilder #39/D.ITRAVELER VOIDED-
F-6449 + ·	6	D	D.L.
F-6444	6	E (2)	Welder #39
r-6443	6	E (2)	Welder #39
-1110	6 .	E (2)	Welder #48

TRAVELER NO.	PAGE	CATEGORY		COMMENTS	
F-9379	6	D	Welder #6	COPILITIES	
F-9378	6	D	Welder #6		
F-8742	8	D	Welder #63	-TRAVELER VOIDED-	
F-11198	9	D.	S.L.		
F-11186	9	E (2)	Welder #48		
F-11187	9	D	S.L.		
F-11189	9	D	D.L.	-TRAVELER VOIDED-	
F-11195	9	E (2)	Welder #48	-TRAVELER VOIDED-	
F-11196	9	. E (2)	Welder #48		
F-9256	9	E (2)	Welder #26		
F-9251	9	E (2)	Welder #26		
P-2570	10	D	D.L.	-TRAVELER VOIDED-	
P-1150	10	E (2)	Welder #6	-TRAVELER VOIDED-	
P-1149	10	E (2)	Welder #39		
F-6482	10	E (2)	Welder #26	-TRAVELER VOIDED-	
-6465	10	E (2)	Welder #6	-TRAVELER VOIDED-	
r-6464	10	E (2)	Welder #43	-TRAVELER VOIDED-	
-6443	10	E (2)	Welder #26		
-5847	10	"E (2)	Welder #6		
-5846	10	E (2)	Welder #6		
-5842	10	E (2)	Welder #6	-TRAVLER VOIDED-	
-493	10	E (2)	Welder #5		
-494	10	E (2)	Welder #39 & #6	-TRAVELER VOIDED-	
-11173	10	E (2)	Welder #5	-TRAVELER VOIDED-	
-11177	10	E (2)	Welder #5		
-11178 .	10	С	Welder #26		
-5636-	11	E (2)	Welder #26		
-5632	11	E (2)	Welder #5		
-5054	11	E (2)	Welder #5		

TRAVELER NO.	PAGE	CATEGORY	COMMENTS
F-5829	12	E (2)	Welder #26
F-5827	12	E (2)	Welder #39
F-5826	12	E (2)	Welder #26 -TRAVELER VOIDED-
F-4448	12	E (2)	Welder #43
F-4444	12	E (2)	Welder #6 -TRAVELER VOIDED-
F-4443	12	D	M.K.
P-2596	12	E (2)	Welder #5 -TRAVELER VOIDED-
F-5814	12	D	D.R.
F-6813	12	D	D.R.
F-5815	12	E (2)	Welder #26
F-5816	12	E (2)	Welder #26
F-5818	12	E (2)	Welder #39
F-5812	12	E (2)	Welder #26
F-5811	12	E (2)	Welder #26
F-5808	12	E (2)	Welder #5
F-11105	14	F	Welder #58 not identified -TRAVELER VOIDED-
F-11036	14	F	Welder #58 not identified -TRAVELER VOIDED-
P-2756	29	E (2)	Welder #39
F-04412	29	"E (2)	Welder #39 -TRAVELER VOIDED-
F-04411	29	E (2)	Welder #39 - TRAVELER VOIDED-
F-04408	29	E (2)	Welder #39
F-4404	29	. E (2)	Welder #39
F-11102	29	F	Welder #58 not identified
P-2971 4	30	F	Welder #24 not identified
F-9260 *	31	D	Welder #6
F-1305	31	D	Welder #6
P-1308-	31	E (2)	Welder #48
F-11171	31	E (2)	Welder #26 -TRAVELER VOIDED-
F-11176	31	E (2)	Welder #6
F-11205	31	E (2)	Welder #26

TRAVELER NO.	FAGE	CATEGORY	COMMENTS
			-TRAVELER VOIDED-
F-1872	17	D	
F-8801	19	E-2	#52-Welder -TRAVELER VOIDED-
P-1112	19	C	-TRAVELER VOIDED-
F-10268	20	E	#30
P-1201	20	. Ε	#54
F-6456	20	Ε	#54
F-8767	20	E	#52 -TRAVELER VOIDED-
F-8798	20	E	#52
F-8816	20	E	#54 -TRAVELER VOIDED-
F-10484	21	E	#54
F-10489	21	E	#52
F-10050	23	E	#30 -TRAVELER VOIDED
F-10485	23	E	#54
F-10066	24	E	#30 -TRAVELER VOIDED-
P-1514	24	E	#30 -TRAVELER VOIDED-
P-1523	24	D	D.L. ? -TRAVELER VOIDED-
P-1511	24	E	#54 -TRAVELER VOIDED-
P-1510	24	D	W.I. & G.S. ? -TRAVELER VOIDED-
P-10262	24	Έ	#54 -TRAVELER VOIDED-
F-13246	27 .	. D	#66 ? - TRAVELER VOIDED-
F-13254 ·	27	E	#64 -TRAVELER VOIDED-
F-11100 .	27	D	#58 ?
F-11117	27	D	* 58 ?
F-11050	28	E	#26 -TRAVELER VOIDED
F-11091 -	28	E	#26 -TRAVELER VOIDED-
F-11118	28	D	#58 7 -TRAVELER VOIDED-
F-11132	28	D	#58 ? -TRAVELER VOIDED-
P-1491	16	Ε	#54
F-02636	34	· c	#12 not qualified for WPS-2
F-02635	34	С	#12 not qualified for WPS-2

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TRAVELER NO.	PAGE	CATEGORY	COMMENTS	
F-13717	34	, D	#21 & #5 not qualified for WPS-2	
F-2320	35	D	#21 not qualified for WPS-2	-TRAVELER VOIDED-
F-2301	35	. в	WPS not circled .	-TRAVELER VOIDED-
F-13720	35	D.	#21 & #53 not qualified for WPS-2	·
P-661 *	38	A,D	#52 & #21 not qualified for WPS-2	
P-660	38	A,D	#52 & #54 not qualified for WPS-2	
P-659	38 .	A,D	#52 & #53 not qualified for WPS-2	
P-658	- 38	A,D	#52 & #53 not qualified for WPS-2	
P-657	38	, A,D	#52 & #53 not qualified for WPS-2	
P-3619	38	A,D	#63 not qualified for WPS-2	
P-3602	38	A,D	#63 not qualified for WPS-2	-TRAVELER VOIDED-
F-2032	38	A,D	#12 & #23 not qualified for WPS-2	-TRAVELER VOIDE
F-2031	38	A,D	#5, #12, & #23 not qualified for WPS-2	
F-2223	38	. A,D	#12, #23 & #21 not qualified for WPS-2	
F-2023	38	A,D	#12 not qualified for WPS-2	No. American Control
F-2009	38	A,D	#12 not qualified for WPS-2	
F-2014	38	A,D	#63 not qualified for WPS-2	-TRAVELER VOIDED-
F-2022	38	A,D	#32 not qualified for WPS-2	
F-13758	40	D	D.G. ?	-TRAVELER VOIDED-
F-13756	40	D	J.L. ?	-TRAVELER VOIDED-
F-13748 .	40 .	D	D.G. ?	
F-1306	40	E	#54	
P-495	41	D	R.K. & D.W. ?	-TRAVELER VOIDED-
F-5817	41	D	B.S. ?	-IRAVELER VOIDED-
F-6485 *	41	D	B.S. ?	
P-1114	41	D	D.W. ?	
P-1115 .	41	D	W.J. ?	
P-2833	41 .	D	R.K. ?	-TPAUFIER WATER
F-10423	41	. D	R.K. ?	-TRAVELER VOIDED-
F-10424	41 '	D	R.K. ?	

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TRAVELER NO.	PAGE	CATEGORY	COMMENTS
F-4943	11	E (2)	Welder #5
F-4941	11	E (2)	Welder #39
P-2597	11	E (2)	Welder #5 & #39
P-2595	11	D,E (2)	Welder #5/D.R.
P-2594 *	11	E (2)	Welder #5
P-1093 -	11	E (2)	Welder #43
F-6448	11 .	E (2)	Welder #26
F-6454	11	E (2)	Welder #48
F-6486	11	. D	D.L.
F-5834	11	E (2	Welder #5 -TRAVELER VOIDED-
F-4446	11	E (2)	Welder #39
F-4445	11	E (2)	Welder #6 -TRAVELER VOIDED-
F-6466	11	E (2)	Welder #5
F-5835	11	E (2)	Welder #26
F-5837	12	E (2)	Welder #39
F-5836	12	E (2)	Welder #6 -TRAVELER VOIDED-
F-5830	12	E (2)	Welder #5 -TRAVELER VOIDED-
F-10426	41	. D .	R.K. ?
F-10492	41	D	R.K. ?
F-10072	41	. D	R.K. ? -TRAVELER VOIDED-
F-10062 ·	41	. D	R.K. ? -TRAVELER VOIDED
r-9259 .	41	· D	D.W. ?
-8952	41	D	R.K. ? -TRAVELER VOIDED-
-8951 4	41	D	R.K. ?
-02632	34	С	#12 not qualified for WPS-2
-02630	34	C,D	#26 qualified after work date for wps-2
-2657	34	D	#54 not qualified for WPS-2 #23 not qualified for WPS-2
-2656	34	D	#23 not qualified for PWS-2
-3023	34	. D	#21 & #54 not qualified for WPS-2

DISCREPANT			PROJECT: Midland CLASS: PLANT:
TRAVELER NO.	PAGE	CATEGORY	COMMENTS
F-13746	34	D	#21 & #23 not qualified for WPS-2
F-13719	34	D	#21 & #63 not qualified for WPS-2
F-13718	34	D	#21 not qualified for WPS-2
F-14851	36	D,C	#12
F-14819	36	D	R.M.
F-14586	36	D	Welder #63 & #26
F-2768	37	D	Welder #26 & #63 -TRAVELER VOIDED-
P-3075	37	D	Welder #63 & #26
F-02643	37	. D	Welder #12, #23 & #26
F-02642	37	D	Welder #23 & #5
F-02641	37	D .	Welder #23 & #5
F-8569	37	D	L.P.
F-7256	2	E (2)	39 Qualified 10/29/79
F-6453	6	E (2)	
F-6452	6	E (2)	
F-02639	38	D	26 not qualified for WPS-2
F-02637	. 38	D	26 & 12 not qualified for WPS-2
F-3406	35	D	No welder I.D. for fitting
F-10425	41	- D	RX not circled on copy JDT not qualified
fi - Christ			
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FINAL LISTING AND BREAKDOWN OF

MIDLAND CLASS 1 CATEGORY 3 ("NO") TRAVELERS

FINAL SUMMARY OF TRAVELERS WITH WELD RECORD DISCREPANCIES

Following is a listing of all Travelers that exhibit discrepancies in the information pertinent to welding.

The list was distilled from the original listing of all record copy Travelers that had a corresponding "working" (zerox) copy.

Definitions used in describing the discrepancies listed are as follows:

No Qualification Records on file"

Indicates that the records of welder qualification are not on file within the Zack Company and could not be found in the files of the test lab used for welder qualification testing. This leaves no proof that the individual in question was qualified to weld during the time frame in question.

Qualified:

Indicates the earliest date that a welder passed a welder qualification test for the particular welding process call-out on the Traveler. Records for all welders listed as qualified are on file within the Zack Company.

Work Date:

Indicates the date that welding was performed by evidence of a date entered by the welder next to his I.D. number on the Traveler.

Work Inspected:

Indicates the date that the work was inspected by evidence of a date entered next to the Inspector's initials. This date is usually within two days of actual welding and is the next most representative date for establishing a time frame for work performance.

Material Shipped:

Indicates the date that material listed on a particular Traveler was shipped to a jobsite. This date is usually within two (2) weeks of completion of work. This date is used to establish a time frame for the work when no work date or inspection date is on the Traveler. This date is more indicative of the actual work date than the Traveler issue date.

TRAVELER NO.	-	WELDER	Page 1 CLASS I
F-6654	PAGE	-	COMMENTS
1-0034	1	Gibson	No qualification records on file. Work inspected 9-11-78.
F-4425	2	#39	Qualified 10-29-79, work inspected 6-6-79.
F-4399	2	#39	Qualified 10-29-79, work inspected 6-6-79.
F-4398	2	#39	Qualified 10-29-79, work inspected 6-6-79.
F-4397	2	#39	Qualified 10-29-79, work inspected 6-6-79.
F-4271	2	#39	
F-4269	2	#39	Qualified 10-29-79, work inspected 6-6-79.
F-4284	2	1 #39	Qualified 10-29-79, work inspected 6-6-79.
F-4279	2	#39	Qualified 10-29-79, work inspected 5-21-79.
F-2462	2	#39	Qualified 10-29-79, work inspected 5-21-79.
F-4276	3	#39	Qualified 10-29-79, work inspected 5-18-79.
F-4275	3	#39	Qualified 10-29-79, work inspected 6-5-79.
P-2464	3	#39	Qualified 10-29-79, work inspected 6-5-79.
F-4424	3	#39	Qaulified 10-29-79, work inspected 6-5-79.
F-11202	6		Qualified 10-29-79, work inspected 6-5-79.
F-11206	6	#39	Qualified 10-29-79, work inspected 10-12-79.
F-11210		#39	Qualified 10-29-79, work inspected 10-12-79.
F-6444	6	#39	Qualified 10-29-79, work inspected 10-12-79.
	6	#39	Qualified 10-29-79, work inspected 9-17-79.
F-6443	6	#39	Qualified 10-29-79, work inspected 9-17-79.
F-9379	6	#6	Qualified 10-29-79, work inspected 10-8-79.
F-9378	6	#6	Qualified 10-29-79, work inspected 10-8-79.
F-11186	9	#48	Qualified 10-29-79, work inspected 10-10-79.
P-11196	9	#48	Qualified 10-29-79, work inspected 10-11-79.
P-1149 :	10	* 39	Qualified 10-29-79, work inspected 9-17-79.
2-5847	10	#6	Qualified 10-29-79, work inspected 9-13-79.
-5846	10	#6	Qualified 10-29-79, work inspected 9-13-79.
-5827	12	#39	
-4448	-12	#43	Qualified 10-29-79, work inspected 9-14-79. Qualified 10-29-79, work inspected 9-12-79.

WELD RECORD DISCREPANCIES FOR PROJECT: MIDLAND Page 2

TRAVELER NO.	PAGE	WELDER I.D.	COMMENTS CLASS I
F-5818	12	#39	Qualified 10-29-79, work inspected 8-28-79.
F-04408	29	#39	Qualified 10-29-79, work inspected 6-5-79.
F-4404	29	#39	Qualified 10-29-79, work inspected 6-5-79.
F-11176	31	#6	
F-11209	31	#39	Qualified 10-29-79, work inspected 10-24-79.
F-10268	20	#30	Qualified 10-29-79, work inspected 10-27-79.
P-1201	20	#54	Qaulified 1-22-80, work inspected 1-10-80.
F-6456	20	#54	Qualified 1-22-80, work inspected 1-9-80.
F-10484	21	#54	Qualified 1-22-80, work inspected 1-9-80.
F-10458	23	#54	Qualified 1-22-80, work inspected 1-10-80.
P-1491	16	#54	Qualified 1-22-80, work inspected 1-10-80.
P-1306	40	#54	Qualified 1-22-80, work inspected 1-3-80.
F-5817	41	#39	Qualified 1-22-80, work inspected 1-14-80.
F-6485	41	#39	Qualified 10-29-79, work inspected 8-27-79.
P-1114	41	#48	Qualified 10-29-79, work inspected 9-17-79.
F-4941	11	#39	Qualified 10-29-79, work inpsected 10-1-79.
P-2579	11	#39	Qualified 10-29-79, work inspected 8-28-79.
P-1093	11	#43	Qualified 10-29-79, work inspected 8-28-79.
F-6454	11	#48	Qualified 10-29-79, work inspected 10-1-79.
F-4446	11	#39	Qualified 10-29-79, work inspected 10-1-79.
F-5837	12		Qualified 10-29-79, work inspected 9-20-79.
F-10492	41	#39	Qualified 10-29-79, work inpsected 9-13-79.
F-7256.		#54	Qualified 1-22-80, work inpsected 1-10-80.
	2	#39	Qualified 10-29-79, work inpsected 6-5-79.
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LISTING OF MIDLAND CLASS 1 "WORKING" COPY TRAVELERS
CONTAINING NO INFORMATION PERTINENT TO THE REVIEW

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MIDLAND

CLASS I

PLANT 2 TRAVELER COPIES WITH NO EXTRA WELDER I.D. MARKINGS

*	P-507	F-1947	F-2633	F-2809
	657	1998	2634	2851
	658	2009	2635	2852
	659	2014	2636	2866
	660	2022	2637	2867
	661	2023	2638	2868
	695	2031	2639	2869
	1103	2032	2640	2870
	1104	2052	2641	2871
	1105	2053	2642	2872
	1106	2116	2643	2873
	1177	2221	2656	2874
	1178	2223	2657	2875
	1179	2294	2662	2976
	1180	2301	2663	2877
	1181	2318	2704	2878
	1182	2319	2748	2879
	1202	2320	2756	2880
	1224	2321	2767	2881
	1297	2325	2768	P-2917
	F-1538 P-1666	2326	2773	2918
	1667	2327	2774	2919
	F-1794	2330	2776	2921
	1804	2333	2777	2922
	1851	2339	2778	2955
	1857	2358	2779	2971
	1872	2359 2519	2780	2972
	1877	2520	2781	2973
	1881	2521	2782	2974
	1925	2522	2783	2975
	1927	2599	2785	2976
	1928	2617	2786	2977
	1929	2624	2787	2978
	1930	2625	2788	2984
	1931	2626	2789	2986
	1932	2627	2790	2988
	1933	2628	2792	2989
	1934	2629	2794	2990
d	1935	2630	2795	2992
7	1937	2631	2798	3007
2	1946	2632	2805	3008
The same	1340	2032	2807	3,009

160

MIDLAND

CLASS I

	PLANT 2 TRAVI	ELER COPIES	WITH NO EXTRA WELDER	I.D. MARKINGS
*	P-3010	F-6481	F-10951	F-12453
	3011	6483	10952	12454
	3018	6650	10953	12466
	3023	8417	10954	12467
	3050	8567	11960	12468
	3075	7568	11988	12469
	3318	8569	11997	12472
	3325	8570	12002	12473
	3326	8571	12033	12474
	3327	8572	12034	12475
	3328	8722	12043	12476
	3330	8723	12051	12479
	3331	8724	1.2063	12480
	3332	8725	12086	12481
	3394	8736	12091	12482
	3396	8800	12096	12487
	3397	8909	12100	12488
	3402	8912	12101	12489
	3415	8929	12114	12490
	3430	8930	12115	12491
	3431	8931	12116	12492
	3441	8932	12117	12493
	3444	8933	12118	12494
	3446	8934	12119	12495
	3447	8935	12120	12496
	3448	8936	12121	12497
	3449	8937	12123	12498
	3450	8938	12126	12500
	3451	8939	12128	12501
	3452	8940	12130	13100
	3453	8541	12132	13238
	3455	8942	12134	13239
	3468	8943	12136	13294
	3612	9015	12138	13295
	3794	9128	12140	13296
	3913	9217	12142	13297
	3914	9467	12144	13298
	F-6385	10267	12178	13299
¢į.	6469	10483	12255	13301
	6471	10603	12256	13302
*	6472	10604	12257	13303
	6473	10605	12258	13304
	6474	10606	12259	13480
	6477	10607	12260	13481
	6476	10608	12261'	13482
	6478	10645	12262	13483
	6479 .	10849	12263	13484
	6480	10950	12265	13485
	6480	10950	12265	1348

MIDLAND -

CLASS I

PLANT 2 TRAVELER COPIES WITH NO EXTRA WELDER I.D. MARKINGS

F-13486	F-14619	F-17427	3-
13487	14620	17428	
13488	14621		
13497		17429	
13498	14622	17430	
	14623	17431	
13499	14820	18437	
13503	14832	17439	
13504	14834	17440	
13571	14835	17441	
13573	14836	17442	
13574	14851	17443	
13575	14866	17452	
13576	15503	17453	
13577	15663		
13591	15665		
13603	15667		
13604	15795		
13605	15879		
13607	15891		
13608	15938		
13609			
13610	15939		
	15940		
13611	17066		
13612	17067		
13613	17070		
13614	17071		
13615	17073		
13616	17074		
13617	17075		
13633	17076		
13634	17117		
13686	17118		
13694	17122		
13716	17123		
13717	17124		
13718	17125		
13719	17126		
13720	17289		
13721			
	17297		
13723	17298		
13727	17299		
13746	17300		:
13763	17301		1
13764	17308		
13765	17309		2
13781	17402		
13784	17424		
13828	17425		
13988	17426		

LISTING OF

MIDLAND VOIDED TRAVELERS

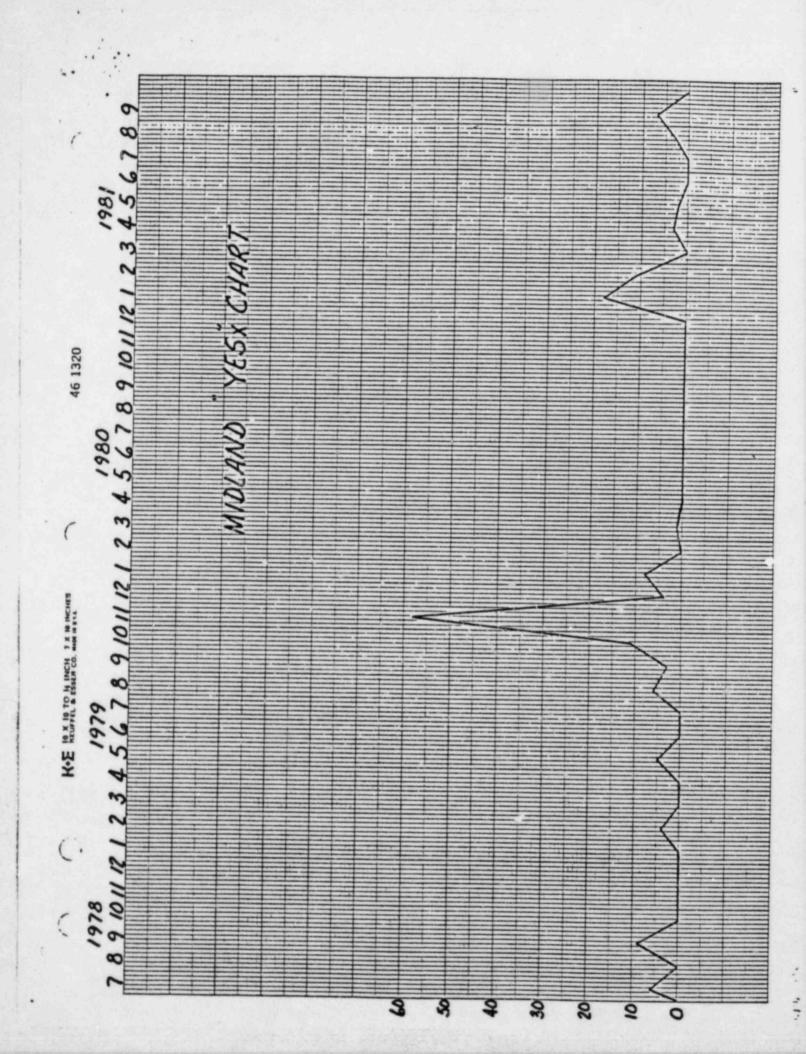
MIDLAND CLASS I VOIDED TRAVELER LIST

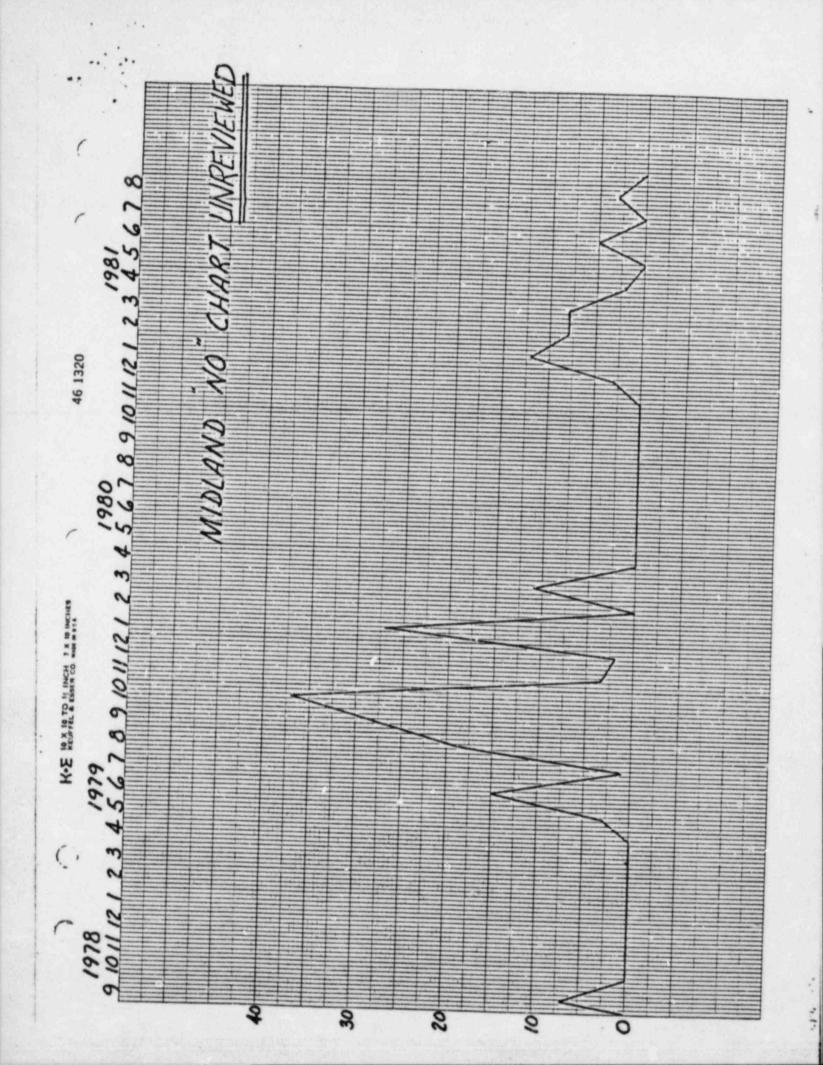
F-8911	P-1514
11171	F-10066
11173	10050
11189	8816
11195	8767
P-1523	P-1112
F-2768	F-8801
8952	1872
10062	04411
10072	04412
5830	11036
5836	11105
4445	P-2596
5834	F-4444
2833	5826
P-495	P-494
F-13756	F-5842
13758	6464
2014	6465
2301	6482
2032	P-1150
P-3602	2570
F-2320	F-8742
2031	P-1110
11132	F-11200
11118	11211
11091	6643
11050	6648
13254	6644
13246	6642
10262	6652
P-1510	6656
1511	

DISTRIBUTION BY DATE OF OCCURRENCE

OF

MIDLAND CLASS 1 DISCREPANT TRAVELERS





MIDLAND NO CHART 46 1320 9101112123456789101112123456789101112 K-E 10 X 10 TO M INCH 7 X 10 INCHES 9

WELDER MATRIX

NAME	NO.	HIRE	TERM.	PLANT 2 WIRE ISSUE	GMAW CS	GMAW SS	GMAW CS/SS	SMAW CS	SMAW SS	SMAW CS/SS
H. Bartolino	14	2/1/78	6/25/78	N/A	2/3/78	N/A	N/A	N/A	N/A	N/A
T. Boyle	20	6/1/76	N/A	5/15/79-	12/10/76	1/26/82	7/13/81	N/A	N/A	N/A
C. Byers	61	1/31/80	3/31/80	N/A	3/25/80	N/A	N/A	N/A	N/A	N/A
W. Collins	67	3/12/80	5/22/80	4/14/80- 5/13/80	3/25/80	N/A	N/A	N/A	N/A	N/A
J. Dianis	9	7/31/78	9/2/79	N/A	3/2/79	N/A	N/A	N/A	N/A	N/A
I. Dickey	21	9/12/77	2/15/82	5/15/79-	2/3/78	N/A	7/13/81	10/15/81	N/A	N/A
M. Drozdek	23	5/25/79	9/6/81		10/29/79	N/A	7/13/81	N/A	N/A	N/A
V. Genova	43	9/11/79	2/ /80	N/A	10/29/79	N/A	N/A	N/A	N/A	N/A
K. Gibson	11	7/7/78	11/19/78	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Z. Golon	49	6/1/65	N/A	N/A	4/27/76	8/28/79	9/25/79	4/9/79	N/A	N/A
r. Gonzalez	34	9/30/69	N/A	5/15/79- 10/15/81	4/22/76	1/26/82	7/13/61	4/22/76	2/25/82	N/A
C. Hoffman	1	6/9/76	1/11/81	N/A	6/22/76	N/A	N/A	6/22/76	N/A	N/A
J. Jacobs	64	2/18/80	8/31/80	3/27/80- 8/27/80	3/25/80	N/A	N/A	- N/A	N/A	N/A
Jordan	5	4/3/72	9/18/81	6/5/79- 8/7/81	3/2/79	N/A	7/13/81	N/A	N/A	N/A
. Kuzmin	6	6/1/76	2/19/82	11/7/79 2/5/80	10/29/79	N/A	N/A	6/1/77	N/A	N/A-
H. Matkowich	12	1/10/78	12/28/81	5/15/79 8/26/81	2/3/78	N/A	7/13/81	N/A	N/A	N/A
RMech	59	1/13/80	4/4/80	3/26/80	3/25/80	N/A	N/A	N/A	N/A	N/A
D. Parker	11	12/7/78	1/7/79	N/A	3/2/79	N/A	N/A	N/A	N/A	N/A
- Petkus	26	7/10/78	1/5/82	5/15/79- 3/24/81	3/2/79	N/A	N/A	4/1/81	N/A	N/A
. Place	52	11/4/79	10/7/81	N/A	3/25/80	N/A	N/A	N/A	· N/A	N/A
. Purington	60	1/31/80	4/6/80	N/A	3/25/80	. N/A .	N/A	N/A -	- N/A	N/A
L Quinn	9	5/27/80	N/A	10/80	7/8/80	1/26/82	8/28/81	N/A	N/A	N/A
. Scott	63	2/8/80	N/A	8/4/80 10/14/81	7/8/80	1/26/82	7/13/82	N/A	N/A	N/A
. Smith	39	2/5/79	8/31/80	5/15/79- 8/13/80	10/29/79	N/A	N/A	N/A	N/A	N/A
. Socha	30	9/8/78	10/19/80	N/A	1/22/80	N/A	N/A	N/A	N/A	N/A
. Sowa	56	3/31/80	6/29/80	5/1/80- 6/11/80	4/17/80	N/A	N/A	N/A	N/A	N/A
. Way	48	7/19/79	9/21/80	11/5/79- 6/20/80	10/29/79	N/A	N/A	N/A	N/A	N/A
. Weiss	66	3/12/80	5/25/80	3/26/80- 5/2/80	3/25/80	N/A	N/A	N/A	N/A	N/A
. Weyer	54	12/7/79	10/8/81	3/3/80- 9/24/81	1/22/80	N/A	7/13/81	N/A	N/A	N/A
L Zogata	29	5/19/69	N/A	N/A	12/10/76	N/A	N/A	N/A	N/A	N/A

. . .

LI

CLEANER & INSPECTOR MATRIX

CLEANER/INSPECTOR LIST

NAME	NO.	POSITION	HIRE	TERM.
S. Bilek	6	Cleaner	3/11/80	8/17/80
J. Bonsimore	14	Cleaner	8/30/78	2/17/80
E. Bryson	65	Cleaner	3/11/80	8/17/80
T. Burton	43	Cleaner	4/01/80	7/06/80
R. Diaferia	: 55	Cleaner	9/14/78	3/22/83
C. Eichstaedt	N/A	Q.A.	1/07/78	N/A
J. Fitzpatrick	22	Cleaner	3/29/71	N/A
J. Friskenstein	?	Cleaner	9/18/79	9/24/79
H. Geyer	N/A	Q.C.	8/66	N/A
A. Hansen	Gary	Cleaner	1/24/80	4/02/80
O. Hanslor	59	Cleaner	4/16/80	8/31/80
. Ireton	11	Cleaner	5/16/79	11/25/75
. Jerzak	32	Cleaner	8/23/78	8/10/80
. Johnson	25	Cleaner	9/15/78	N/A
. Kelly	7	Cleaner	2/16/81	3/19/82
. Klecki	57	Cleaner	4/07/80	5/15/80
. Lanasa	?	Cleaner	2/28/78	4/23/78
. Lilja	15	Cleaner	6/13/79	N/A
. Lott	33	Cleaner	?	N/A
. McElroy	45	Cleaner	5/07/79	11/03/80
. McGuin	44	Cleaner	1/21/80	3/22/80
. Michalik	N/A	Q.C.	2/29/80	1/17/82
. Miklos	51	Cleaner	12/03/79	8/03/80
. Morency	8	Cleaner	8/10/78	12/28/80
. Pabisinski	50	Cleaner	9/17/79	N/A
. Richards	35	Q.C.	6/01/78	N/A
. Rychell	4	Cleaner	4/29/74	7/09/82
. Schaeffer	N/A	Q.C.	8/18/80	4/23/82
Schultz	61	Cleaner	11/30/70	-1 5/04/80
. Spychalski	3	Cleaner	5/76	: N/A
Thompson	N/A	Q.C.	11/07/77	11/02/80
			-, -, -, -,	11/02/80

STATEMENT OF THOMAS BOYLE

STATEMENT OF THOMAS BOYLE

My name is Thomas Boyle. From approximately May 1979 to October 1981 I was the General Foreman of Plant No. 2.

During the time period when the Xerox copy of the yellow copy of the traveler was sent over to Plant No. 2, I would give Bud Prim a slip of paper containing or orally give him information with respect to who did the welding.

The initials which appear on the Xerox copies of the yellow copy are not necessarily the initials of the person doing the welding. The information on the Xerox copy was an effort to keep track of what was done to the material while in plant No. 2. Therefore, the initials on the Xerox copy could be the initials of persons, including welders, who did cleaning or shipping. Therefore, it is impossible to tell just by looking at the Xerox copy who did welding, cleaning or shipping. Also, these Xerox copies are not the official records. The official records are the actual yellow copies retained by Zack.

At the time I attempted to discard the Xerox copies, I did so because these records were not the official records and I did not feel we had any obligation to retain them. Also, I felt that because I knew that there were initials of persons on the Xerox copies who may not have done welding and who may have done cleaning or shipping and because there was no way to tell by looking at the Xerox copies who did what, I thought the Xerox copies would cause unnecessary confusion. I talked to Rud Prim. He agreed that these records were not the official records and that Zack had no coligation to retain them and that they would cause unnecessary confusion. Bud Prim agreed that I should discard them.

Dated: August 27, 1982

Thomas Boyle

STATEMENT & QUALIFICATION RECORDS

of

KENNETH GIBSON

To Whom It May Concern:

450

22

The following are the jobs and/or training I have had as a Sheetmetal Welder.

- 1. Attended adult evening school in Joliet for welding class.
- 2. Started working for Zack in 1966-67 (approximately 18 months).
- 3. Worked for R. B. Heyworth for 3 or 4 months.
- 4. Back to Zack worked at Republic Steel job and at U. S. Steel.
- 5. Took union welding test in 1977.
- 6. Worked for Babcock and Wilcox at Morris Station Power House in Joliet (visual test).
- Worked at Pullman Sheetmetal and took tests for them. Did not get results of tests but they should have copies.
- 8. Worked for Peerless Sheetmetal Co.
- 9. Worked for E. F. Guafstson in Skokie.
- 10. Worked for Merchants Sheetmetal Co. in Chicago.
- 11. Took visual tests for R. Irsay Company.
- 12. Working in Clinton Power Station for 20 months.

Kenneth Gibson

Att: Certifications



CERTIFICATE

OF

TEST AND APPROVAL OF WELDING PROCESS
AND

- QUALIFICATION OF OPERATOR OF WELDING EQUIPMENT

PITTSBURGH TESTING LABORATORY, has witnessed the welding and testing of test specimens welded by an employee of National Training Fund

for the Sheet Metal & Air Conditioning Industry
1900 L Street, N. W., Suite 405
Washington, D. C.
in accordance with

American Society of Mechanical Engineers Boiler and Pressure Vessel Code, Section IX, 1974 Edition plus Addenda through Summer 1976

Velding Process Snie	This is to certify that the Welding Technic used in this test and described in SPECIFICATIONS FOR WELDING PROCESS No. PG-4690 and the results of the test given in PHYSICAL TEST REPORT No. 772675 complied with the requirements of the above code within the following limitations. Maximum Plate or Wall Thickness 3/4" Minimum Plate or Wall Thickness 1/16" Welding Positions Flat, OH & HORIZ. Other Limitations Fillet & Groove
Operator Tested	Remarks Group No. Pl to Pl
Operator Tested	

Approved_2-7-77



ESTABLISHED INST

PITTSBURGH, PA.

AS A MUTUAL PROTECTION TO CLIFFITS THE PUBLIC AND OUNSELVES, ALL REPORTS ARE SUMMITTED AS THE CONFIDENCIAL PHOPLET OF ELICITY, AND AUTHORIZATION FOR PUBLICATION OF STATEMENTS. CONCLUSIONS ON EXPRACTS FROM ON RECARDING OUN REPORTS IS RESERVED PUBLIC OUNS WRITTER APPROVAL.

PHYSICAL TEST REPORT OF WELDER PERFORMANCE QUALIFICATION TESTS

1900 L Street Welder Name Kenneth (Gibson	S. S. \$47-28-0161	44
			lamp No
Helding Process			
Position (Fo: vertical weld state (For Plate: Flat, horizontal, verti	whether upward or downward cal, or overhead; For Pipe	d) Overhead & Horiz : Axis of pipe vertical, horizontal fix	ontal Grooves
In accordance with Procedure Spe-	cification No. ASME	Section IX 1974 Edition	es of norizontal rones).
Material - SpecificationSA3	6toSA36	of P-No1 to	P-No. 1
Diameter and Wall Thickness (if p	ipe) otherwise Joint Thick	ncss3/8" Plate	*
Thickness Range this qualifies	1/16" to 3/4"		
Specification No. ASYE SFA		LLER METAL	

Filler Metal Diameter and Trade N	- For In	nformation Only Flux for Submerged Arc or G	
Filler Metal Diameter and Trade N	- For Income 1/8" & 3/32" Lincoln Nanual Client		
Above Information by: PTL X	- For Income 1/8" & 3/32" Lincoln Nanual Client	Welding Multipass ther No TEST RESULTS	
Filler Metal Diameter and Trade N Above Information by: PTL Preparation of specimen witnessed Overhead	- For Income 1/8" & 3/32" Lincoln Manual Client □ O by PTL Yes ☒ GUIDED BE	Welding Multipass ther No TEST RESULTS HORIZON	tal
Above Information by: PTL Preparation of specimen witnessed Overhead TYPS AND FIGURE NO. 4G Face Bend	- For Income 1/8" & 3/32" Lincoln Manual Client	Welding Multipass ther No TEST RESULTS HORIZON FIGURE NO. 2G Face Bend	PASSED
Above Information by: PTL Preparation of specimen witnessed Overhead TYPE AND FIGURE NO. 4G Face Bend 4G Root Bend	- For Income 1/8" & 3/32" Lincoln Nanual Client	Flux for Submerged Arc or G Welding Multipass ther No TEST RESULTS HOTIZONS FIGURE NO. 2G Face Bend 2G Root Bend	tal RESULT
Above Information by: PTL Preparation of specimen witnessed Overhead TYPE AND FIGURE NO. 4G Face Bend 4G Root Bend Test Witnessed by PITTSBURG	- For Income 1/8" & 3/32" Lincoln Nanual Client	Flux for Submerged Arc or G Welding Multipass ther No TEST RESULTS HOTIZONS FIGURE NO. 2G Face Bend 2G Root Bend	PASSED
Coverhead Type And Figure No. 4G Face Bend 4G Root Bend est Witnessed by PITTSBURG	-For Income 1/8" & 3/32" Lincoln Manual Client	Flux for Submerged Arc or G Welding Multipass ther No TEST RESULTS HOTIZON FIGURE NO. 2G Face Bend 2G Root Bend ORY Test No. 1811	PASSED PASSED
Preparation of specimen witnessed Overhead TYPE AND FIGURE NO. 4G Face Bend 4G Root Bend Fest Witnessed by PITTSBURG per	-For Income 1/8" & 3/32" Lincoln Manual Client Of by PTL Yes X GUIDED BE RESULT PASSED PASSED H TESTING LABORATO Kalman Incquirements of AMERIA	Flux for Submerged Arc or G Welding Multipass ther No TEST RESULTS HORIZON FIGURE NO. 2G Face Bend 2G Root Bend ORY Test No. 1811	PASSED PASSED L ENGINEERS, BOILER
Above Information by: PTL Preparation of specimen witnessed Overhead TYPE AND FIGURE NO. 4G Face Bend 4G Root Bend Fest Witnessed by PITTSBURG per	-For Income 1/8" & 3/32" Lincoln Manual Client	Flux for Submerged Arc or G Welding Multipass ther No TEST RESULTS HOTIZON FIGURE NO. 2G Face Bend 2G Root Bend ORY Test No. 1811	PASSED PASSED L ENGINEERS, BOILER TION IX, 1974 EDITION



CERTIFICATE

OF

TEST AND APPROVAL OF WELDING PROCESS

QUALIFICATION OF OPERATOR OF WELDING EQUIPMENT

PITTSBURGH TESTING LABORATORY, has witnessed the welding and testing of test specimens welded by an employee of National Training Fund

for the Sheet Metal & Air Conditioning Industry
1900 L Street, N. W., Suite 405
Washington, D. C.
in accordance with

American Welding Society Structural Welding Code D1.1-75

	in this test and described in SPECIFICATIONS FOR WELDING PROCESS No. PG-4690 and
	REPORT No. 772675 complied with the requirements of the above code within the following limitations.
	Maximum Plate or Wall Thickness 3/4" Max.* Minimum Plate or Wall Thickness Not Limited Welding Positions Flat, OH & Horiz. Other Limitations Fillet & Groove *Fillet Not Limited.
Operator Tested	Remarks AWS A5.1 Electrode

File No.

Approved_2/7/77



PITTSBURGH, PA. AN A DISTURE PROFESSION OF CLICATE THE PUBLIC AND DIRECTIVE BLE APPRINGS FOR PUBLICATION OF STREET WITH CONTRACT OF CLICATE AND AUTHORISTS THE PUBLICATION OF STREET CONTRACT OF STREET OF CLICATE AND ALTERNATIVE OUR REPORTS IN RESIDENCE PUBLICATION OF STREET, APPRINGS OF STREET, APPRING

Lab No. 772675 O:der No. PG-4690 Date......2/7/77

PHYSICAL TEST REPORT OF WELDER PERFORMANCE QUALIFICATION TESTS

Welder Name Kennet Welding Process SMA	h Gibson	C C	0036 Attn: J. R. 01
(For Plate: Flat, horizontal,	vertical, or overhead; For Pi	pe: Axis of pipe vertical, horizontal	ontal Grooves
Diameter and Wall Thickness (Thickness Range this qualifies	if minol athan to		to P-No.
Specification No. ANS A-5		ILLER METAL	
Describe Fill 1	. 1		
Describe Filler MetalE	/018	***************************************	
Is Backing Strip Used?			***************************************
Filler Metal Diameter and Today	- For I	nformation Only Flux for Submerged Arc or O	es for Inert Gas Shielded Ar
Filler Metal Diameter and Trade Above Information by: PTL Separation of specimen witnesses Overhead	- For It Name 1/8" & 3/32" Lincoln Manual Client Ot ed by PTL Yes X	Welding Multipass No TEST RESULTS	
Filler Metal Diameter and Trade Above Information by: PTL Separation of specimen witnesse	- For It Name 1/8" & 3/32" Lincoln Manual Client Ot ed by PTL Yes X	No TEST RESULTS HOTIZOT	ntal
Filler Metal Diameter and Trade Above Information by: PTL Separation of specimen witnesses Overhead	Name 1/8" & 3/32" Lincoln Manual Client Ot ed by PTL Yes X GUIDED BEN	No DEST RESULTS HOTIZOT	
Above Information by: PTL Sopreparation of specimen witnessed Overhead Type AND FIGURE NO. 4G Face Bend	Lincoln Manual Lincoln Manual Client Ot d by PTL Yes X GUIDED BEN RESULT	No TEST RESULTS HOTIZOT	ntal
Filler Metal Diameter and Trade Above Information by: PTL Services witnesses Overhead Type AND FIGURE NO. 4G Face Bend 4G Root Bend	- For In Name 1/8" & 3/32" Lincoln Manual Client Ot	No DEST RESULTS HORIZON FIGURE NO. 2G Face Bend	PASSED
Above Information by: PTL Spreparation of specimen witnesses Overhead Type AND FIGURE NO. 4G Face Bend 4G Root Bend st Witnessed by PITTSBURGE	Lincoln Manual Lincoln Manual Client Ot ed by PTL Yes X GUIDED BEN RESULT PASSED PASSED	No DEST RESULTS HORIZOT FIGURE NO. 2G Face Bend 2G Root Bend	ntal RESULT
Above Information by: PTL Spreparation of specimen witnessed Overhead TYPE AND FIGURE NO. 4G Face Bend 4G Root Bend st Witnessed by PITISBURG: per J.	Lincoln Manual Lincoln Manual Client Ot ed by PTL Yes X GUIDED BEN RESULT PASSED PASSED I TESTING LABORATORY Kalman	No DEST RESULTS HORIZON FIGURE NO. 2G Face Bend 2G Root Bend 7. Test No. 1811	PASSED
Above Information by: PTL Spreparation of specimen witnessed Overhead TYPE AND FIGURE NO. 4G Face Bend 4G Root Bend st Witnessed by PITISBURG: per J.	Lincoln Manual Lincoln Manual Client Ot ed by PTL Yes X GUIDED BEN RESULT PASSED PASSED I TESTING LABORATORY Kalman	No DEST RESULTS HORIZON FIGURE NO. 2G Face Bend 2G Root Bend 7. Test No. 1811	PASSED

R. Call State Line

HARVEY (ED) E. ENTREKIN

POSITION

Contracts Lead Office Engineer

EDUCATION

Electrical Engineering, Auburn University Electrical Engineering, Georgia Institute of Technology

Course in Pneumatic and Hydraulic Controls, Air & Hydraulics Engineering

SUMMARY

1-1/2 years: Lead contract administrator 10 months: Lead mechanical engineer 1-1/2 years: Lead nuclear steam supply system field engineer

14 months:

Assistant subcontract field

engineer

6-1/2 years: 1 year:

Corporate president Salesperson, manager of

3 years:

sales and production Project manager/chief

engineer

2 years: 5 years: Project engineer Designer/draftsman

EXPERIENCE

Mr. Entrekin is currently contracts lead office engineer assigned to the Midland nuclear jobsite. He is responsible for supervising a staff of contract administrators, commercially administering 10 subcontracts in the subcontracts department. He assumes lead responsibility in interfacing with the client, finance and accounting, and procurement on commercial matters.

Prior to this position, Mr. Entrekin was a lead mechanical engineer at the Midland jobsite. He supervised the subcontract field engineers on the heating, ventilating, and air conditioning; condenser; and nuclear steam supply system subcontracts. He also represented the subcontracts department in daily schedule meetings and implemented the department's systems turnover plan.

As a lead nuclear steam supply system (NSSS) engineer for Midland, Mr. Entrekin was responsible for the administration of a \$50 million NSSS subcontract, including its commercial and technical aspects. He interfaced with the client and the quality

HARVEY (ED) E. ENTREKIN (Continued)

assurance organization. Earlier, as assistant lead NSSS engineer, Mr. Entrekin was responsible for monitoring the field activities of Babcock & Wilcox Construction Company.

Prior to this assignent, Mr. Entrekin was assistant and, later, lead subcontract field engineer in Avoca, Michigan.

Prior to joining Bechtel, Mr. Entrekin served as president to Gas Systems, Inc., in Dalton, Georgia. The organization designed and installed standby plants to be activated in the event of natural gas shutoffs.

Previously, Mr. Entrekin was president of Apex Machinery, Inc., in Dalton, Georgia. He took over total responsibilities for the company.

Earlier, Mr. Entrekin was self employed as a freelance salesperson of fabricated steel, automated machinery, and air pollution control equipment.

In his first association with Apex Machinery, Inc., Mr. Entrekin was manager of sales and production. He took responsibility for creating a new product line, training employees, and managing sales, production, and scheduling.

Previously, Mr. Entrekin served as president of his own research and development company, Seeco, Inc. The company specialized in automated control panels and specialty coatings.

In his nine-year association with International Incinerators, Inc. (I.I.I.), in Atlanta, Mr. Entrekin began as a draftsman responsible for mechanical equipment and architectural plant layout shop drawings. He later advanced to systems designer. HARVEY (ED) E. ENTREKIN (Continued)

Following this, Mr. Entrekin was a project engineer for I.I.I. with lead responsibility for the design and implementation of an innovative combination chemical and solid waste disposal plant for 3M Company. He later advanced to project manager/chief engineer, with total responsibility for design and all contracts with I.I.I. clients. He oversaw five projects worth approximately \$15 million from the development and cost estimate stages through completion and startup.

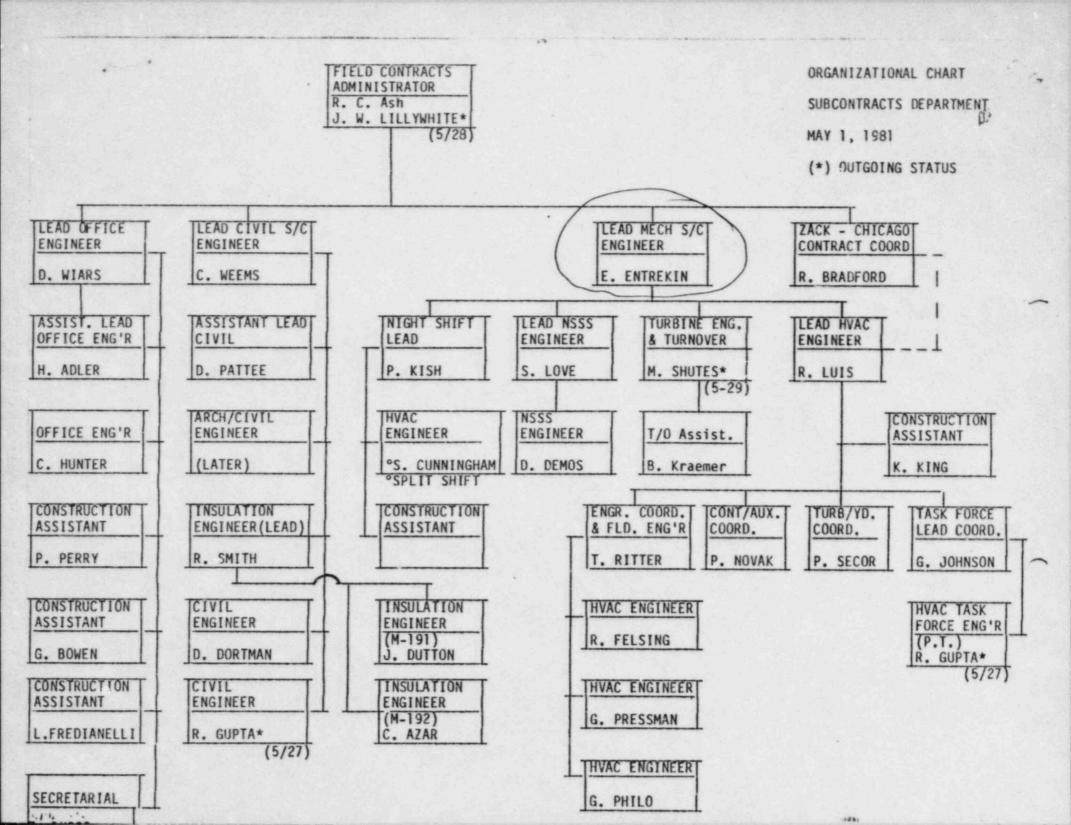
Earlier, Mr. Entrekin was a draftsman for Franklin Aluminum Company in Franklin, Georgia and Jervis B. Webb Company in Atlanta.

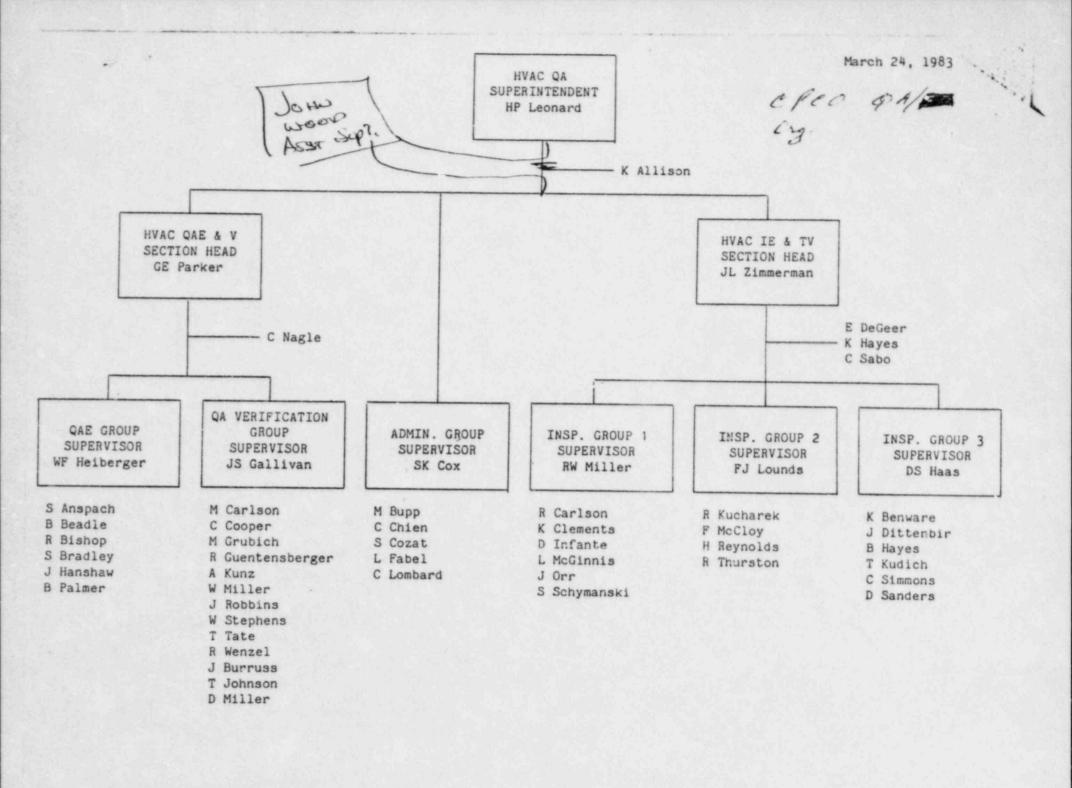
JOB DESCRIPTIONS

Contracts Lead Office Engineer

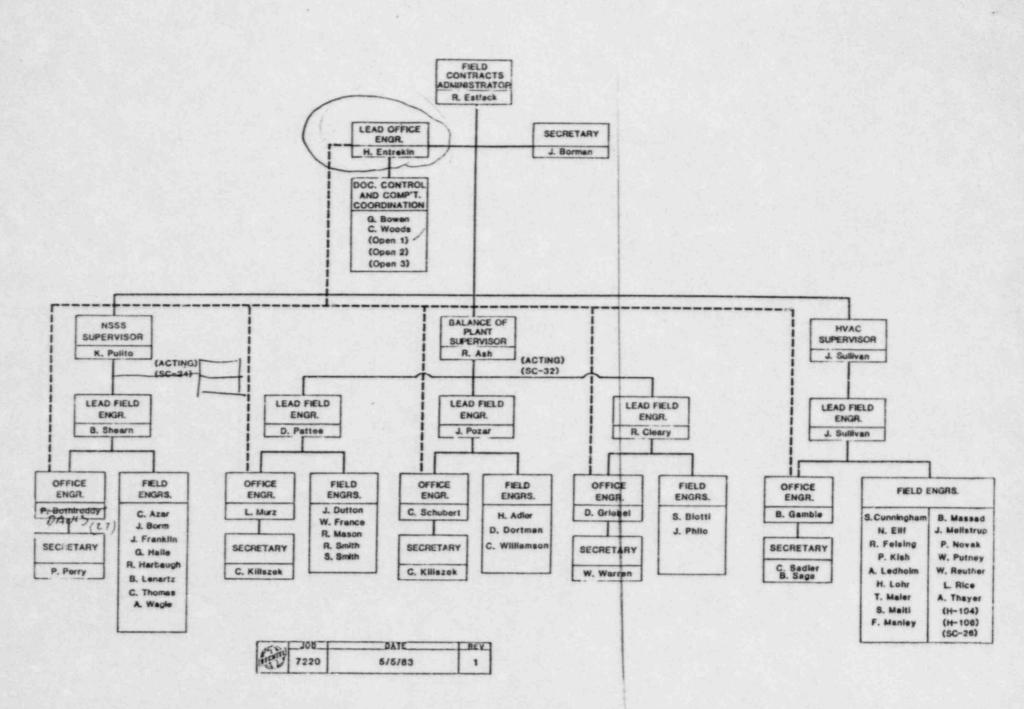
Provides administrative and technical support for the field contracts administrator and is responsible for the following:

- 1. Provides operational direction to the office engineers
- 2. Maintains documentation of contract compliance records
- Establishes and assures compliance with office routines and procedures including reports, logs, registers, and files.
- Assists in processing and resolution of change orders, amendments, backcharges, claims, progress payments, etc
- 5. Assembles and prepares required reports
- Supervises support services including document control, clerical, and secretarial within the contacts section





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UNITED STATES NUCLEAR REGULATORY COMMISSION REGION III 799 ROOSEVELT ROAD GLEN ELLYN, ILLINOIS 60137

JUN 2 7 1983

Nocket No. 50-329 Docket No. 50-330

Ms. Mary Sinclair 5711 Summerset Drive Midland, MI 48640

Dear Ms. Sinclair:

This is in response to your letter of April 18, 1983, to me in which you convey the concerns you had received from an anonymous worker at the Midland plant. Your letter indicates the worker's principal concerns are (1) the lack of professional engineering registration of certain Bechtel employees performing work at the Midland site, and (2) the lack of qualified/trained people doing Zack design work.

Regarding item 1, the resident inspector reviewed the resumes of Messrs. Davis, Soderholm, Ash, and Entrokin and determined that they each have many years of experience in their respective fields of work. Region III, therefore, has been unable to establish any substantive basis for this concern. The matter of professional registration does not relate to any NRC requirement and we suggest it be pursued with the State of Michigan. We note that the Michigan Attorney General was on your list of individuals receiving a copy of your letter.

Regarding item 2, the NRC (Region III) is performing a special inspection of the Zack heating, ventilation, and air conditioning work at Midland. The NRC inspection will include a sample review of the Zack employees' qualifications and training. The findings of the inspection will be documented in an inspection report and a copy will be sent to you.

Your letter also identifies a concern that the worker had regarding difficulties a former welder had encountered at the site causing him to quit his job. The lack of specificity regarding this concern does not currently warrant an NRC investigation/special inspection. Should more specific information be provided in the future, the NRC will be glad to look into this matter.

6307050101 2pp.

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We trust this has been responsive to your concerns.

Sincerely,

Original signed by James G. Keppler

James G. Keppler Regional Administrator

cc w/ltr dtd 4/18/83: Attorney General Frank Kelley Senator Carl Levin Senator D. Riegle Congressman D. Albosta DMB/Document Control Desk (RIDS) Resident Inspector, RIII The Honorable Charles Bechhoefer, ASLB The Honorable Jerry Harbour, ASLB The Honorable Frederick P. Cowan, ASLB The Honorable Ralph S. Decker, ASLB William Paton, ELD Michale Miller Ronald Callen, Michigan Public Service Commission Myron M. Cherry Barbara Stamiris Wendell Marshall Colonel Steve J. Gadler (P.E.) Howard Levin, TERA Billie P. Garde, Government Accountability Project Lynne Bernabei, Government Accountability Project

bcc w/ltr dtd 4/18/83: R. L. Spessard

SURNAMED GARdner/ls Harrison Warnick Strasma Lewis Davis Kepplet
DATE 6/24/83 6/14/83 6/14/83 6/14/83

NRC FORM 318 - 10-80 : NACM 0240

DEELCIAL BECORD CORY

57ll Summerset Drive Midland, MI 48640 April 18, 1983

PRINC	IPAL STAFF
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Mr. James Keppler, Regional Administrator Nuclear Regulatory Commission, Region III Office of Inspection and Enforcement 799 Roosevelt Road Glen Ellyn, Illinois 60137

Dear Mr. Keppler:

Over the past couple of months, a man, who used to work on the Midland nuclear plant, has called me several times to give me information that he believes is very important to relay, not only to you, but to our Attorney-General Frank Kelley.

He will not provide an affidavit to the Government Accountability Project on these matters because he does not believe his anonymity can be adequately protected. He is now working for a Midland subcontractor, as I understand it.

His concern is about the many unqualified people there are at the plant site in jobs of critical importance to safety.

Since I notice in the testimony of Ron Cook, the resident inspector, his frequent mention of poor installation and even his requests to see the qualifications of workers because of poor workmanship, I believe there may be merit in these facts that I have been given over the phone or sent in the mail.

He gave me names of people he worked with who were not qualified for their assignments. They all worked for Bechtel or Bechtel subcontractors. These include: Leo Davis--no Michigan engineering registration and no field experience who worked on systems requiring engineering. He's not sure he has a degree of any kind. Dick Soderholm--no Michigan engineering registration, little field experience, worked in procurement; Clark Ash--has a degree (not sure in what), no Michigan engineering registration, little field experience, worked in procurement; Ed Entrokin--has no degree, is not registered as engineer in Michigan, field experience amounts to 2 or 3 years with Bechtel. The sub-contract department under Ed Entrokin had design authority--the balance of sub-contracts did not have design authority.

According to my informant, engineering design authority was delegated to Zack by Bechtel. Zack also did not have qualified people for design work they were doing. People without adequate training were designing duct work, or pipe hangers and brackets.

4307050+11 11PD

Page Two Mr. James Keppler April 18, 1983

Soils work was subcontracted by Bechtel.

Also, he stated that someone by the name of Cannoni was the subcontractor for soil compaction and he was also given subcontract for part of the underpinning of sinking buildings.

He claims that all work on any construction project beyond a certain limited size must be done as a Michigan registered engineer or architect.

He gave me the following citation from Michigan Compiled Laws 338.551-Architects, Engineers, Surveyors, Article 20, Act 299, Public Acts of 1980 p. 902-7,
defines the role of licensed engineers and architects--does not give any exception
to Federal activity. Any building structure must be designed, planned and materials
and supplies inspected under direct supervision of a licensed engineer.

He told me that a very good welder quit the project recently because the scheduling was so erratic. One day he would have an apprentice assistant, the next day a journeyman. He was forced to repair continually what was done. He said the Bechtel management here was the poorest he had seen anywhere and he couldn't take it anymore.

The informant also sent me a sketch of management responsibility, rate and pay schedule of contractors for Bechtel and a copy of Article 20, Act 299, PA of 1980 on Architechts, Engineers and Surveyors. These materials are enclosed.

I hope your office will investigate these matters to protect the public health and safety of the people of this area.

Yours sincerely.

Mary Sinclair

cc: Attorney-General Frank Kelley Senator Carl Levin Senator Don Riegle Congressman Don Albosta

5711 Summerset Drive Midland, MI 48640 April 18, 1983

Attorney-General Frank Kelley 525 West Ottawa Law Building, 7th Floor Lansing, MI 48913

Dear Attorney-General Frank Kelley:

Enclosed is a letter to Mr. James Keppler, director of Region III of the Nuclear Regulatory Commission, in which I describe certain facts that were disclosed to me on the phone by a person who prefers to remain anonymous. He also sent certain materials and supporting items in the mail which are also enclosed.

I believe your office has the responsibility to enforce the law requiring Michigan registration of engineers, etc. responsible for design, construction and materials of construction projects.

I hope you will give this matter your attention.

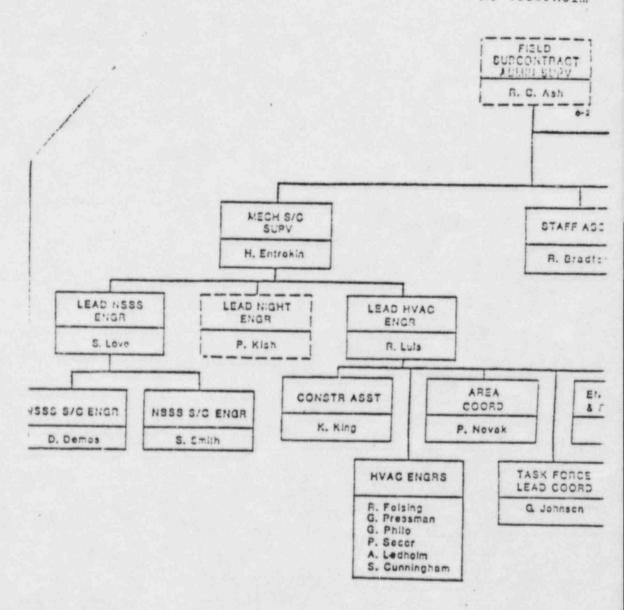
Yours sincerely,

Mary Sinclair

Enclosures

L. E. Davis

H. Soderholm



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100	7220	6-2 SUBCONTRACTS	7

2. COMPENSATION

2.1 FROFESSIONAL SERVICES

Contractor shall be paid for service in accordance with the following rate schedule for all time spent on the project by professional and technical personnel of the designated classification accepted by Bechtel.

Classification	Straight Time/Hr	Overtime/Hr	
Principal Associate Principal Senior Associate Associate Engineering Supr. Senior Lead Engineer Senior Engineer Staff Engineer/	\$54.00 \$52.00	\$70.00 \$66.00 \$64.00 \$62.00 \$75.00 \$75.50 \$67.50 \$65.00	<pre>v per diem ? % r.t. airfa:e ? % BFC overlead : % BFC profit 1</pre>
Senior Technician En Assistant Engineer Senior Draftsman Draftsman/Technician	\$42.00 \$40.00	\$57.50 \$52.50 \$50.00 \$47.50	
Junior Draftsman Technical Typist/ Engineering Aide Secretary	\$32.00 \$22.00 \$13.00	\$40.00 \$27.50 \$16.25	

The rates include salary, overhead, fee, benefits, vacation allowance, sick leave, holiday pay, taxes, and insurance, and all other associated manhour costs.

Specified rates and classification for each Contractor personnel assigned shall be submitted in writing to the authorized Bechtel representative. Bechtel will be notified prior to changing classification of any Contractor personnel above Senior Draftsman.

2.1.1 Contractor will only be reimbursed for work actually performed. Contractor personnel will not be reimbursed for days not worked, except as specified in paragraph 2.1.4 below, including, but not limited to, sick leave, vacations, holidays and travel time.

All work assignments by Contractor must be authorized in advance by Bechtel. Contractor will not be reimbursed for services rendered which are not authorized. Contractor will submit weekly time worked verification for acceptance by designated Bechtel Representative.

TSA 7220-C-122(Q) Schedule A Page 2 of 9

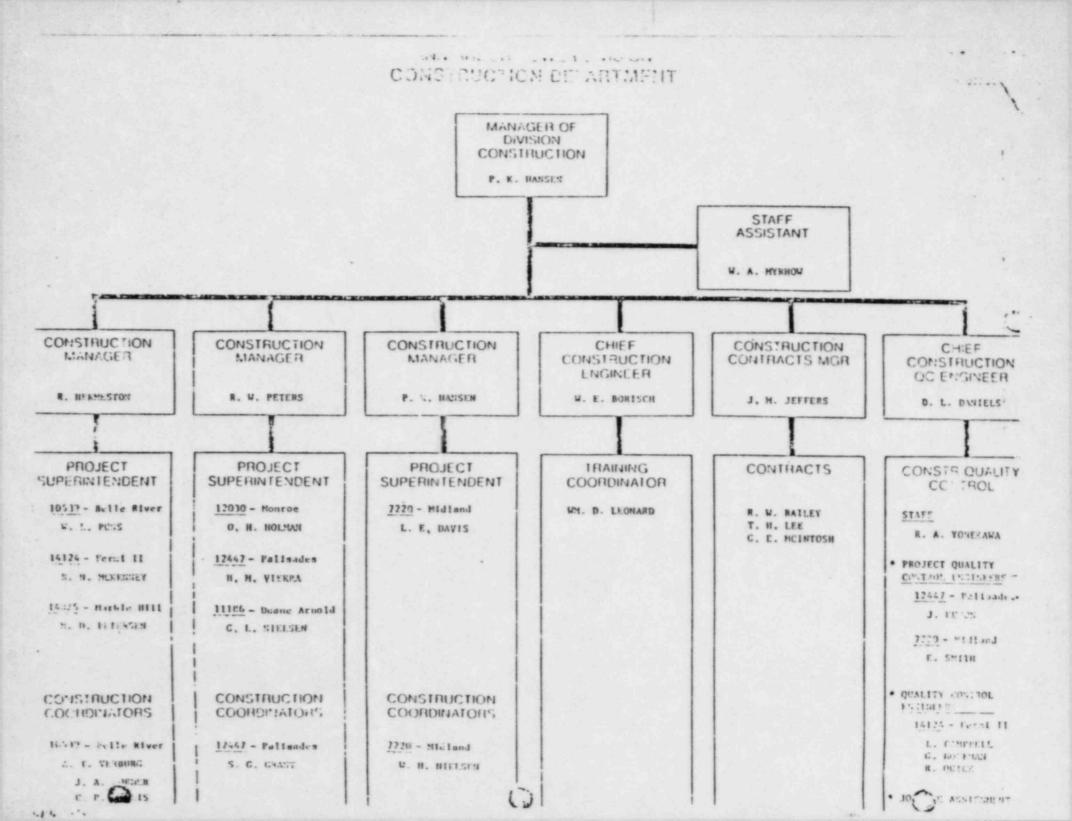
U.S. Dollar Payroll

Effective: 1/3/81

Supersedes revision dated 7/5/80

	lst Quartile	Qu		The second secon	4th artile
Salary Grade	. Kinimum	25%	Midpoint	75%	· Maximum
21	\$ 1,305	\$ 1,500	\$ 1,695	-\$ 1,890	\$ 2,090
-22	1,450	1,680	1,895	2,115	2,335
23	1,640	1,890	2,135	2,380	2,625
24	1,865	2,145	2,425	2,705	2,935
25	2,135	2,455	2,775	3,095	3,415
25	2,140	2,810	3,175	3,540	3,905
, 27	2,780	3,200	3,615	4,035	4,450
28	3,095	3,560	4,025	4,490	4,955
29	41,100 (3,425)	(3,938)	53,400 (4,450)	(4,957)	(5,457)
30	45,900 (3,825)	52,800 (4,400)	59,700 (4,975)	65,600 (5,550)	73,400 (6,117)
31	51,500 (4,292)	59,300 (4,942	67,000 (5,584)	74,700 (6,225)	82,400 (6,857)
22	57,500 (4,792)	65,100 (5,509)	74,700 (5,225)	83,300 (6,942)	92,000 (7,657)
		**		2	* * * . * . * . * . * . * . * . * .

^{12:} Nonthly equivalents in parentheses for salary grades 29-32.



ARTICLE 20

Sec 2001. As used in this article

- (a) "Architect" means a person who, by reason of knowledge of anthematica, the physical sciences, and the principles of architectural design, acquired by professional education, and practical experience, is
- (b) "Firm" means a sole proprietorship, partnership, or corporation through which a person heensed under this article offers or provides a service to the public.
- (c) "Land surveyor" means a person who, by reason of knowledge of law, mathematics, physical sciences, and techniques of measuring land acquired by professional education and practical experience, is qualified to engage in the practice of land surveying.
 - (d) "Person" means a natural person.
- (e) "Person in responsible charge" means a person licensed under this article who determines technical questions of design and policy; advises the client; supervises and is in responsible charge of the work of subordinates; is the person whose professional skill and judgment are embodied in the plans, designs, plats surveys, and advice involved in the services; and who supervises the review of material and completed phases of construction.
- (f) "Practice of architecture" means professional services, such as consultation, investigation, evaluation, planning, design, or review of material and completed phases of work in construction, alteration, or repair in connection with a public or private structure, building, equipment, works, or project when the professional service requires the application of a principle of architecture or architectural design.
- (g) "Practice of land surveying" means the surveying of an area for its correct determination, description, and conveyancing, or for the establishment or reestablishment of a land boundary and the plotting of land and subdivisions of land.
- (h) "Practice of professional engineering" means professional services, such as consultation, investigation, evaluation, planning, design, or review of material and completed phases of work in construction, alteration, or repair in connection with a public or private utility, structure, building, machine, equipment, process, work, or project, when the professional service requires the application of engineering principles or data.
- (i) "Principal" means a sole proprietor, partner, or the president, vice-president, secretary, treasurer, or director of a corporation.
- (j) "Professional engineer" means a person who, by reason of knowledge of mathematics, the physical sciences, and the principles of engineering, acquired by professional education and practical experience, is qualified to engage in the practice of professional engineering.
- (k) "Services" means professional service offered or provided by an architect in the practice of architecture, a professional engineer in the practice of professional engineering, or a land surveyor in the practice of land surveying.
 - Sec. 2002. (1) The boards of architects, of professional engineers, and of land surveyors are created.
- (2) The board of architects consists of 5 architects, 1 professional engineer who is a member of the board of professional engineers, and 1 land surveyor who is a member of the board of land surveyors. Two members of the board shall represent the general public.
- (3) The board of professional engineers consists of 5 professional engineers, I architect who is a member of the board of architects, and I land surveyor who is a member of the board of land surveyors. Two members of the board shall represent the general public.
- (4) The board of land surveyors consists of 5 land surveyors. I professional engineer who is a member of the board of professional engineers, and I architect who is a member of the board of architects. Two members of the board shall represent the general public.
- (5) Of the initial members of the board of architects, the terms of 3 of the members, including 2 of the members who are licensed architects and 1 of the members representing the general public, shall be 4 years; the term of 1 of the members who is a licensed architect shall be 2 years; and the terms of 2 of the members, including 1 of the members who is a licensed architect and 1 of the members of the general public, shall be 1 year. The term of the members who is a licensed professional engineer shall coincide with that member's term on the board of professional engineers. The term of the member who is a licensed land surveyor shall coincide with that member's term on the board of land surveyors.

- on Of the metial enembers in the beard of professional enembers, the terms of 5 of the members, anchoing 2 of the members who are beens diprofessional engineers and 1 or the members representation of 5 of the members representation of 5 of the members who is a beensed professional engineer shall be 3 years, the term of 1 of the numbers who is a beensed professional engineer shall be 2 years, and the terms of 2 of the members, including 1 of the members who is a beensed professional engineer and 1 of the members of the general public shall be 1 year. The term of the member who is a beensed architect shall coincide with that member's term on the board of architects. The term of the member who is a beensed land surveyor shall coincide with that member's term on the board of land surveyors.
- (7) Of the initial members of the board of land surveyors, the terms of 3 of the members, including 2 of the members who are licensed land surveyors and 1 of the members representing the general public, shall be 4 years; the term of 1 of the members who is a licensed land surveyor shall be 3 years; the term of 1 of the members who is a licensed land surveyor shall be 2 years; and the terms of 2 of the members, including 1 of the members who is a licensed land surveyor and 1 of the members of the general public, shall be 1 year. The term of the member who is a licensed professional engineer shall coincide with that member's term on the board of professional engineers. The term of the member who is a licensed architect shall coincide with that member's term on the board of architects.
- (S) A licensee who serves on more than I board created under this article, and who resigns, is disabled, or is removed for cause by the governor from the board under which he or she is licensed, shall no longer represent that board on any other board created under this article.
- See 2003. A joint meeting of the boards created by this article shall be held at least once annually at a time and place determined by the department. Two or more of the boards created by this article may meet jointly at the call of the chairperson of a board created by this article.
- Sec. 2004. (1) An applicant for examination for licensure under this article shall be of good moral character and shall have had not less than 8 years of professional experience in architectural, engineering, or land surveying work satisfactory to the appropriate board, including not more than 6 years of education satisfactory to the appropriate board and shall meet the following educational requirements:
- (a) For architecture, a first professional degree or further degree in architecture. However, until July 1, 1981, a 4-year, preprofessional baccalaureate degree shall be accepted in lieu of the first professional degree.
- (b) For professional engineering, a baccalaureate degree in engineering acceptable to the board of professional engineers or a related degree with courses acceptable to the board.
- (e) For land surveying, a degree in land surveying or a related degree with land surveying courses acceptable to the board of land surveyors.
- (2) An applicant meeting the appropriate requirements of subsection (1) who files an application for examination for licensure, upon payment of the fee prescribed in section 13 of Act No. 152 of the Public Acts of 1979, as amended, being section 338,2213 of the Michigan Compiled Laws shall be granted an examination for licensure as an architect, professional engineer, or land surveyor.
- (3) An examination for licensure under this article as an architect, a professional engineer, or land surveyor shall be held at least once a year at a time and place determined by the department.
- (1) An applicant for examination for licensure who successfully completes studies required for the granting of a degree required by subsection (1) may take a part of the examination which tests the applicant's understanding of the theory pertaining to his or her profession. An applicant who passes that part of the examination is not required to repeat that part of the examination regardless of when the applicant takes the examination required by subsection (5).
- (5) An applicant who satisfies the requirements of subsection (1) shall take the examination which tests the applicant's qualifications to practice as an architect, professional engineer, or land surveyor.
- (6) An applicant for examination for heensure who fails an examination required by this section may apply for reexamination 6 months after receiving notice of his or her failure. An applicant for reexamination for licensure under this subsection shall pay the fee prescribed by section 13 of Act No. 152 of the Public Acts of 1979, as amended.
- (7) Notwithstanding section 316(3), an alternative form of testing shall only be given to a person with a mental or physical handicap which tests the applicant's understanding of the theory and the applicant's qualifications to practice as an architect, professional engineer, or land surveyor as required in this section.
- Sec. 2005. The department shall mail written notice to an applicant of the applicant's grades on each part of an examination. On written request by an applicant filed with the department within 30 days after within a reasonable time the comments of the board on those parts of the examination which the applicant tailed to pass.

A 7 c. 2 to (1). An application for F, custre ander this extrete shall contain a contain or account so and so in wing the applicant's education and a detailed verifiable summary of the applicant's characteristics, of whom, a or more shall be accusees in the profession for which the applicant is seeking licensure who have personal knowledge of the applicant's professional experience.

(2) A license shall be issued after the applicant has passed the examination presembed in section 2004 5) and has paid the fee prescribed in section 15 of Act No. 152 of the Public Acts of 1979. If the department demes the issuance of a license to an applicant, the fee deposited shall be retained as an application fee.

Sec. 2007. A licensee, upon being licensed, shall obtain a seal authorized by the appropriate board and bearing the bearing the bearing and the legend indicating either "licensed architect", "licensed professional engineer", or "licensed land surveyor". However, a seal existing on the effective date of this article with the legend "registered architect", "registered professional engineer", or "registered land surveyor" is acceptable if a seal is required under state law. A plan, specification, plat, or report issued by a licensee shall be sealed when filed with a public authority. A document shall not be sealed after the license of the licensee named on the document has expired or is suspended or revoked unless the license is renewed, reinstated, or reissued.

Sec. 2008. (1) A plan, plat, drawing, map, and the title sheet of specifications, an addendum, bulletin, or report or, if a bound copy is submitted, the index sheets of a plan, specification, or report, if prepared by a licensee and required to be submitted to a governmental agency for approval or record, shall carry the embossed or printed seal of the person in responsible charge.

(2) If the overlapping of the professions of architecture and engineering is involved in a project, a licensed architect or licensed professional engineer who seals the plans, drawings, specifications, and reports may perform services in the field of the other practice if the services are incidental to the architectural or engineering project as a whole.

(3) A licensee shall not seal a plan, drawing, map, plat, report, specification, or other document not prepared by the licensee or under supervision of the licensee as the person in responsible charge.

Sec. 2009. A liceuse granted under this article shall be renewed on a date determined by the department. A liceuse issued under this article shall be renewed upon payment of the fee prescribed in section 13 of Act No. 152 of the Public Acts of 1979 and a demonstration of continuing professional competence as shall be required and evaluated by the board.

Sec. 2010. (1) A firm may engage in the practice of architecture, professional engineering, or land surveying in this state, it not less than 2/3 of the principals of the firm are licensees.

(2) However, nonlicensed principal and the principal's firm shall apply for and receive an approval from the department to engage in the practice of architecture, professional engineering, or land surveying, if the conduct of the firm and its principals comply with rules promulgated by the department.

(3) Upon request by the department, a firm shall report to the department the names and addresses of its principals, persons in responsible charge, unlicensed principals, and any other information the department considers necessary.

(4) A firm shall employ a person in responsible charge in the field of professional service offered at each place of business in this state where a service is offered by the firm, except at a field office which provides only a review of construction.

Sec. 2011. (1) The state or a county, city, township, village, school district, or other political subdivision of this state shall not engage in the construction of a public work involving architecture or professional engineering unless all of the following requirements are met:

(a) The plans and specifications and estimates have been prepared by a licensed architect or licensed professional engineer.

(b) The review of the materials used and completed phases of construction is made under the direct supervision of a licensed architect or licensed professional engageer.

(c) Each survey of land on which the public work has been or is to be constructed is made under the supervision of a licensed land surveyor.

(2) This section does not apply to a public work for which the contemplated expenditure for the completed project is less than \$15,000,00.

Sec. 2012. The following persons are exempt from the requirements of this article:

(a) A professional engineer employed by a railroad or other interstate corporation, whose employment and practice is confined to the property of the corporation.

(b) A designer of a manufactured product, if the manufacturer of the product assumes responsibility for the quality of the product.

(c) An owner doing architectural, engineering, or surveying work upon or in connection with the construction of a huilding on the owner's property for the owner's own use to which employees and the public are not generally to have access.

(d) A person not heensed under this article who is planning, designing, or directing the construction of a residence building not exceeding 3,500 square feet in calculated floor area. As used in this subdivision and section 2014(e), "calculated floor area" means that portion of the total gross area, measured to the outside surfaces of exterior walls intended to be habitable, including a heater or utility room, but not including a trawl space; an untinished and nonhabitable portion of a basement or attic, or a garage, open porch, balcony, terrace, or court.

.. (e) A person who is licensed to engage in the practice of architecture, professional engineering, or land surveying in another state while temporarily in this state to present a proposal for professional services.

See 2013. The department, upon application, and the payment of the fee prescribed in section 13 of Act No. 152 of the Public Acts of 1979, as amended, shall issue a license to a person who holds an appropriate certificate of qualification or registration issued to the person by proper authority of a board of the requirements for the registration of architects, professional engineers, or land surveyors under which the certificate of qualification or registration was issued are determined to be equivalent by the board. The determination shall be made by the appropriate board. A board under this article shall not issue a temporary license as provided under section 213.

Sec. 2014. A person is subject to the penalties set forth in article 6 who commits 1 of the following:

(a) Uses the term "architect", "professional engineer", "land surveyor", or a similar term in connection with the person's name unless the person is licensed in the appropriate practice under this article.

(b) Presenting or attempting to use as the person's own the license or seal of another.

(c) Attempting to use an expired, suspended, or revoked license.

(d) Using the words "architecture", "professional engineering", "land surveying", or a similar term in a firm name without authorization by the appropriate board.

(e) Submitting to a public official of this state or a political subdivision of this state for approval, a permit or a plan for filing as a public record, a specification, a report, or a land survey which does not bear to more seals of a licensee as required by this article. This subdivision does not apply to a public work costing less than \$15,000,00 or a residential building containing not more than 3,500 square feet of calculated floor area.

Bechtel HVAC Specification No. 151A(Q)

Materials Requirements

The below tisted materials are referenced and approved by use in the Midland HVAC System.

- Carbon Sheet Steel
 ASTM-A-526-71, A-527-71, A-366-72, A-607-75, Gr. 50 G-90 coating
 KSI min.
- 2. Stainless Sheet Steel
 ASTM A-240-304-28-75A, 30 KSJ min.
- Carbon Steel Rod, Bar and Shaft Material
 ASTM A-108-73
- 4. Aluminum
 ASTM 8-221-74, Alloy 3003/6063
- 5. Bronze 8-255-70
- 6. Structural Steel Bar, Plate & Shape

 ASTM, 436-75, A372-77 Cr 70, A283-70 Gr A, 36 KSI Min.
- 7. Tubing
 ASTM A500-77 Gr D

- Angle Iron
 2 1/2" x 2 1/2" x 1/4" and below A 575- Gr M1020
- Carbon Steel Galvanized
 ASTM A123-72, later
- 10. Carbon Steel Hardware Galvanized

 ASTM A153-73, A164-71, (A165-71, Cddm Plated) B633-78
- Unistrut Galvanized Sections
 A446-72 GrA, G-90 coating
- 12. Fittings Galvanized
 ASTM A573-73, Per A386-73
- 13. Nuts Galvanized

 ASTM A576-71, 1019 Per A153-73
- 14. Unistrut Springs Galvanized ASTM A227-74, Per 386-73
- 15. Carbon Steel Fasteners. Huck Bolts/Sheet Metal Screws

 ASTM, A325 Galvanized A307-74, per A563-762/307-74

 Substitute for 325 is A490-762 (only)

 Substitute for A307 are: A193-76, A354-76b, A449-76c, A490-762,

 A325

 ANSI B18.2.1-65 (CMTR)

16. Steep Pipe Black or Galvanized

ASTM A53-73/A120 seamless 36KSI min.

HVAC Material Sampling Program

Midland Nuclear Power Plant Units 1 & 2

The NRC sampling program to determine that materials conform to specification requirements will include the removal of 60 samples from the installed ductwork, hangers, and from stock materials at the fabrication shop and storage area.

Samples will be removed from the following safety related subsystems:

- . Control Room
- . Diesel Generator Building
- . Service Water Building
- . Auxiliary Building/Battery Room
- . Fabrication Shop/Storage Area

Sample sizes will be as follows:

- . Sheet steel 5" x 5"
- . Structural shapes, bars, and tubing. Where possible, the sample size will be large enough for either a round or flat tensile specimen.

Sample testing will be performed by an independent laboratory in accordance with the material specification and funded by the NRC.

Control Room Samples:

5 duct samples of sheet steel

3 structural-angle samples from hangers

2 bolt samples 1/4-1/2"

Diesel Generator Room

3 duct samples of sheet steel 20,22,18 gauge, if available,

4 structural

3 bolts - 5/16" - 5/8" - 3/4"

Service Water Building

2 duct samples, sheet stack

6 structural steel (square pipe, channel-angle)

2 bolts 1/2" - 1" (A307)

Auxiliary Building/Battery Room

4 duct samples

4 structural steel

2 bolts 1/2" - 7/8"

Fab Shop

4 duct steel

2 structural

4 bolts - 3/8" - 1/2" - 5/8" - 2/4"

Mediand U.1-2

ZACK - HVAC MATERIAL SAMPLING LIST

I. Control Room

Sample				
No.	ID No.	Traveler	Drawing	Duct piece
1.	209A	P4582	B25 Sh 3	Long. seam weld
2.	HGR 75A	F17525(w/weld)		3/8 X 3½ X 3½ (structural)
3.	231	P3730		Standing Seam Duct Piece
4.	33C	F-21555 `		Duct (Sheet Matl)
5.	HGR 88B	F9835		(Structural)
6.	HGR 21A			(Structural)
7.	61 & 62	F788		Duct Piece
8.	(Bolt 307	from end cap)		
9.	(Bolt 307	from end cap)		
10.	251	F17595		Duct Piece

II. Diesel Generator Bldg.

A. <u>B</u>	ay 4		
11.	29	F11061	Duct Piece
12.	63	F13735	Duct Piece
В. В	ay 3		
13.	115	F11075	Duc't Piece
14.]			
15.	102	F11230	3 - structurals
16.			

III. Service Water Bldg.

Sample No.	ID No.	Traveler	Drawing	Duct Piece
17.	HGR 4A	F2213		Structural
18.	HCR 2B	F16703		(2 X 2 X ½ Square Tube) Structural
19.	93	F10349		Duct Piece
20.	86-5	FP553		Duct Piece
21.	HGR 18B	F14377		3 X 3 X ½ Structural
22.	HGR 39A w/1	" Brim Plate F9	991	35 X 35 X 5 Structural
24.	HGR 36A	F14378		3 X 3 Structural
25.	77A	F12145	40	Bolt
26.	76A	F12143	40	Bolt

-	_					
IV.	Batt	ery Room				
	Α.	Room 357	10			
	27.	HGR	12A	F14911		15 X 15 Structural
	28.	HGR	12A	F7246	B22 SH2	Duct Piece
	в.	Room 353	5D			
	29.	39		F7331		Duct Piece
	30.	HGR	20A	F9530		Structural
	c.	Room 356				
	31.	3		P2360		Duct Piece
	32.	HGR	8	F14196		Structural

V. Auxiliary Bldg.

A.	Cable	Chase	E5.6

33.	HGR 4	F2507	22 SH 1B	15X15X5 angle
				Structural

 Concarn	ment - Unit 2		
36.	HGR 4	F15721	4X4X4 Structural
37.	HGR 19	F7565	3X3 Structural

38.	HGR 10	F6130	V12 SH 2	4X4 Structural

VII. Auxiliary Bldg. (Filter System)

VIII. Rod Issue Room

IX. Fabrication Shop

47. 855-8 13#

48. 935-5 9#

Fabrica	tion Shop (cont	<u>)</u>
49.	1163-2	5.4#
50.	1018-1	6X4X¼ Tube
51.	1937-1	1X1X1 Tube
52.	C2410-5	5" I-Beam
53.	1462-2	5/8X4
54.	C1064	I-Beam
55.	1687-3	½x2
56.	C2560-5	1" Plate X 14½
57.	2 pieces	186A CO1C #720 18 gauge
58.	2 pieces	711 22 gauge
59.	2 pieces	C2547-5 10 gauge
60.	2 pieces	C2619-1 12 gauge

Α.	Area V-25 Class I	_							
61.	Stainless S	Steel	57	P3642					
62.	Stainless S	Steel	66	F-14202	2401	V25	SHl	QR-1	
63.	w/welds T#	8792	127-SH3-3	#109					
В.	Restock Class I								
64.	152 F1	13738							
65.	250 F1	13749							

T-F4613

F9863

X. Poseyville Laydown Area

40

66.

67.

V11 SH2

V12 SH4

Corner w/weld

Seam Weld

Accepted HVAC equipment selected for system walk down at Midland:

V. Drawing	Item No.	Design Drawing
03-1	BD-006	M503-1
03-1	D-002	M503-1
03-1	D-009A	M503-1
03-1	D-016	M503-1
03-1	н-010	C-0856/C-0898/7
03-1	H-023A	C-0856/C-0898/7
07-3	H012A	C-0881/C-0885/11
09-1	D-090	M509-1
09-2	D-204	M509-2
12-2	н-003	C-0941-C-0929/15
12-2	н-020	C-0941-C-0929/15
13-1	H-001	C-0940-C-0927/12
15-1	H-013B	C-0937-C-1209/8
15-1	H-052	C-0937-C-0945/5
25-3	D-028B	M-525-3
25-3	D-033	M-525-3
25-3	D-034,5	M-525-3
25-3	D-049,9	M-525-3
25-3	D-082A	M-525-3
25-3	D-212A	M-525-3
25-3	D-275	M-525-3
25-3	н-017	C-0884-C-0901/6
25-3	н-050	C-0884-C-0878/17

07-3	FD-045	M507-3
03-2	D-309	M-503-2
09-2	D-212	M-509-2
10	H-003	C-0887-C-0885/1
12-2	н-034	C-0941-C-0929/15
13-2	H-002A	C-0939-C-0928/1
22-1	D-014,3	M-522-1
22-1	FD-040	M-522-1
22-1	H-030A	C-0862
22-1A	D-083	M-523-1
22-1A	D-406	M-523-1
22-1A	H-530	C-0882-C-0864/6
25-3	H-021A	C-0884-C-0878/14
25-3	H-043	C-0884-C-0893/3
25-3	H-071	C-0884-C-0878/14
25-3	H-099	C-0884-C-0878/18
26-2	H-004A	C-0891-C-0878/1

1.1.

PRELIMINARY NOTIFICATION OF EVENT OR UNUSUAL OCCURRENCE -- PNO-III-83-55 Date: June 29, 1983

This preliminary notification constitutes EARLY notice of events of POSSIBLE safety or Jangelson public interest significance. The information is as initially received without verification or evaluation, and is basically all that is known by the staff on this date.

Facility: Consumers Power Company

Midland Nuclear Power Station

Units 1 and 2

Docket Nos: 50-329; 50-330

Midland, MI 48640

Licensee Emergency Classification: Notification of Unusual Event

Alert

Site Area Emergency General Emergency

XXXX Not Applicable

Subject:

RESUMPTION OF SAFETY-RELATED WELDING WORK ON HVAC SYSTEM

Following a review by the Senior Resident Inspector of welding procedures and observation of welding performance demonstrations, Region III (Chicago) has authorized Consumers Power Company to resume safety-related welding work on the heating, ventilating, and air conditioning (HVAC) systems at the Midland construction site. The work was stopped November 30, 1912 1983, after a utility audit determined that the quality assurance program for welder qualification and welding procedure qualification was inadequate. (See PNO-III-82-130.)

The audit findings involved a testing laboratory which performed tests on weld samples used in certifying welders and welding procedures for the Zack Company, Inc., the heating, ventilating and air conditioning contractor.

The stopping of work resulted in 151 welders being laid off. Initially, about 27 welders will be rehired, but it is expected that some 150 welders will eventually be recalled.

Neither the licensee nor Region III plans to issue a news announcement. News media interest may occur, because of the ongoing Operating License proceeding and continuing local news media interest in Midland.

Region III issued a letter to the licensee on June 29, 1983, authorizing resumption of fabrication and welding of the HVAC system. This information is current as of 12 noon, June 29, 1983.

Contact: R. Gardner J. Harrison

384-2524

384-2635

6307060310

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Applicable Resident Site Midland-255

CA

Regions I 242, II 312, IV 248, V 246 Licensee (Corporate Office) Consummer Proces 300:

Docket No. 50-329 Docket No. 50-330

Consumers Power Company ATTN: Mr. D. Miller Site Manager P. O. Box 1963 Midland, MI 48640

Dear Mr. Miller:

The NRC has completed a review of the Zack Company welding procedures and welder performance testing.

This review, which was conducted by the Senior Resident Inspector, consisted of the following:

- (1) A review of the welding procedures to assure compliance with the American Welding Society Standards
- (2) Observation of a representative sample of welders performing welding activities in the shop and field to those procedures
- (3) A review of the result of the destructive testing of the welding specimens

Based on the results of this review you are authorized to proceed with the fabrication and welding of Heating, Ventilation, and Air Conditioning (HVAC) systems.

Should you have any questions do not hesitate to contact me.

· Sincerely,

Original signed by g. g. Harrison

fo J. J. Harrison, Chief Midland Section

cc: See attached distribution list

4327050053 280.

OFFICE RIII
SURNAME Gardner/ls. Harrison Warnick

DATE 6/28/83. 6/28/93 6/28/93

NRC FORM 318 (10-80) NRCM 0240 OFFICIAL RECORD COPY

JUN 2 9 1983

Consumers Power Company

C. di ma

cc: James W. Cook, CPCo Resident Inspector, RIII The Honorable Charles Bechhoefer, The Honorable Jerry Harbour, ASLB The Honorable Frederick P. Cowan, The Honorable Ralph S. Decker, ASLB William Paton, ELD Michael Miller Ronald Callen, Michigan Public Service Commission Myron M. Cherry Barbara Stamiria Mary Sinclair Wendell Marshall Colonel Steve J. Gadler (P.B.) Howard Levin, TERA Billie P. Garde, Government Accountability Project Lynne Bernabei, Government

Accountability Project

OFFICE	THE STATE OF THE PARTY OF THE P	
SURNAME		
DATE		
NRC FORM	318 110/80I NRCH 0240 OFFICIAL DECORD CORV	A HEADA 1000 - 120 0 -

- 2--

ZACK TRAVELERS FROM DCC

TRAVELER NUMBER	DRAWING NUMBER
F16904	V-85
F16902	
F16909	V-85 V-85
P4394	V-83
F14976	V-35
F8417	V-33
F14025	V-33-OR1
F14028	V-33-QR1 V-33-QR1
F19603	V=30 ch+ 2
F19604	V-30, sht 2
F17950	V-30, sht 2 V-27, sht 1 V-27, sht 2
E10647	V-27, sht 2
P1667	V-27, sht 2
P1666	V-27, sht 2
F10648	V-27, sht 2
F1200	V-27, sht 2
F10650	V-27, sht 2
P1652	V-27, sht 2
F13673	V-27 sht 3
F2804	V-27. sht 3
F2482	V-27, sht 3
F8776	V-27, sht 3 V-27, sht 3 V-27, sht 3 V-27, sht 3
P3418	V-27, sht 3
P504	V-27, sht 3 V-27, sht 3 V-27, sht 7 V-26, sht 1
F4379	V-27, sht 7
P1345	V-26, sht 1
F19574	V-26, sht lA
F6460	V-26, sht 1A V-22, sht 1-1 V-22, sht 1 V-22, sht 1
F6485	V-22, sht 1
P1149	V-22, sht 1
P1107	V-22, sht 1 V-22, sht 1 V-22, sht 1 V-22, sht 1
P1152	V-22, sht 1
P1148	V-22, sht 1
F6464	V-22, sht 1
F10127	V-3, sht 2
F10131	V-1, sht 2
F15961	V-85
F15952	V-85
F19015	V-85
F18107	V-85
F18213	V-85
F11344	V-83
F11353	V-83
F14649	V-37, sht 2
F6312	V-35
F17847	V-34, sht 1
F19306	V-34, sht 1
F15714	V-33

ZACK TRAVELERS FROM DCC (cont)

TRAVELER NUMBER	DRAWING NUMBER
F21800	V-33
F6230	V-26, sht 2
F15971	V-25, sht 1
F17607	V-25, sht 3
F3873	V-24, sht 2
F3866	V-24, sht 2
F11148	V-22
F11020	V-22, sht 1
F16603	V-21
F18416	V-16
F17093	V-13, sht 1
F10385	V-10
F6400	V-5, sht 1
F1812	V-3, sht 2
F18888	V-3, sht 1
F13642	V-2, sht 2
(7 0886) F916-2	V-01

REPAIR ADDENDUMS

F18738-2	V-85
F11246-3	V-85-A
F18744-3	V-85-B
F17552-22	V-83
F18990-2	V-37, sht 2
F12311-2	V-36
F19901-2	V-35
F2882-5	V-27, sht 2
F1997-2	V-27, sht 2
P581-1	V-27
F17779-2	V-24, sht 1
F16676-1	V-24, sht 2
F12724-3	V-15, sht 1
F17114-2	V-15, sht 1
F17942-1	V-15, sht 1
F5804-2	V-10
F5054-1	V-07, sht 1
F3596-2	V-04, sht 1
F3600-1	V-04, sht 1
F14172-3	V-04, sht 2
F3277-1	V-03, sht 1





CUSTOM METAL LABRICATION

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

P.O. Box 2167, Midland, Michigan 48640

Attn: Mr. L.E. Davis Site Manager

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

Contlemen;

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

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

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

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

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

FOUNDED TO SOLVE THE UNIQUE METAL FABRICATION NEEDS OF INDUSTRY DEDICATED TO CLEANING AND CUSTOMIZED THE ARROTTHE WORLD -

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

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

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

Very truly yours,

David E. Calkins, Quality Assurance Manager

DEC/br

cc: R.C. Ash, Field Contracts Admin.

H. Legnard, OA Mgr. MPQAD

C.Z. Dezutel

J.C. DeZutel

C.L. Eichstaedt, Jr.

R.B. McCarley Files/Midland Files/Chicago

1. CAR BUMBER 014 2. DATE 6/28/81 3. PROJECT Midland Projec Station . . . 4. LICATION Zack Co. /Chicago office 5. ACTION ASSIGNEE Q.A. Pre. Arresident. . 6. SCHERRIED COMPLETION DATE 11/20/81 7. DESCRIPTION: An evaluation of Hidland Project " decial Contilications has revealed the following discrepancies: ____ 1. Incomplete material test reports. 2. Incorrect mirerial rear reports. 3. Improperly redified test reports. 4. Possibility of Individual(s) within The Zack Company improperly - changing teme reports: 8. RECOMMENDED/DIRECTED CORRECTIVE ACTION(s): In order to determine the extent & the seriousness of these deficiencies the following investigations and evalustions shall be conducted: 1. The Q.A. Mgr. will direct a team of (4) document Tech and (1) MPQAD rep. to review all naterial test reports for accuracy and יוטלינלינור ינו בני חים לה לפותם For Test Reports suspected of being medified will be verified with the respective supplier. Sched. completion 10/30/81. (continued, page 2) Chantingage 10. PRESIDENT/DATE . 9. OA MANAGER/DATE 11. ACTION TAKEN: 12. ACTION ASSIGNEE/DATE 13. VERIFICATION -14. ACCEPTED/REJECTED 15. OA MANAGER/DAY: 16. PRESIDENCYDATE

COMMERCIAL WITHOUT SAU OF COMMI

continued

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

Conceden Regions

2

THE ZACK COMPANY

POTENTIAL: 10CFR50.55(E)

Mariel & Calles

REPORTABLE DEFECT EVALUATION
FOR
MATERIAL CERTIFICATION DEFICIENCIES

PREPARED BY

DAVID E. CALKINS, MANAGER QUALITY ASSURANCE

APPROVED BY Caully &

CARL L. EICHSTAEDT, JR. PROJECT MANAGER

APPROVED BY Chustine Perez De Zutel CHRISTINE ZACK DEZUTEL, PRESIDENT

.

THE ZACK COMPANY

POTENTIAL: 10CFR50.55(E)

REPORTABLE DEFECT EVALUATION MATERIAL CERTIFICATION DEFICIENCIES

PREPARED BY Navil E Cache DAVID E. CALKINS, MANAGER QUALITY ASSURANCE

BAYMOND M. GREUNE, PROJECT MANAGER

CHRISTINE ZACK DEZUTEL, PRESENT

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

1.0 TESCRIPTION OF PERSONSING

There has been a breakdown at the quality among the proposal and related to criterion:

"VI - Document Control" and "VII - Control of perchand material, equipment and

services", of Appendix "B" to title to at the Cabe of Federal Regulations, Part 50.

This breakdown resulted in an incomplete review and acceptance of procurement

documentary evidence (material certifications) and acceptance documents by

unauthorized personnel resulting in injurger meditications being made.

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

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

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

TYPE

Clerical errors:

DEFINITION

Those certifications that had acceptable chemical an physical test data but lacked reference to the prefi "ASTM" (i.e., A36 instead of ASTM-A-36), the revisio or date of standard, the standard (i.e. 1979) other studerd) or that the standard designation on sheet steel.

Signaturet me l'itage

except, they had not been argued by an actiorized representative for the company.

Signature error:

There intifications that are acceptable reall eperexcept, the signature typed and the signature signed do not agree (i.e., J. Jones Q.A. Mgr. typed - actual signed by Tom Smith).

. U.S. Steel letter:

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

Anomalies:

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

C of C only:

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

No certification or C of C:

either a cartificate of outlinance or cultrate certain certification and by contract technical specification

appear to require a certificate of compliance.

Wrong standard referenced:

The case the color nodes packages that contain a material costs. I then on continuous of compliance that references a standard not included in the technical specification.

Miscellancous:

Purchase orders indicate by the sites requiring contiti ation but more been "colDED" by Chicago, material certifications to standards not available to the reviewers, or other catagories not previously identified.

Certifications missing:

Those jurchase order packages which are lacking only certifications for certain item(s) or all certifications.

Stickers:

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

Alterations

by typed or handwritten changes.

Chemical/Mechanical test data: These furchase order certifications which have chemical analysis and/or mechanical test data missibn, or, is not in accordance with ALTM Standards or technical specification requirements.

2.C SALETY IMPLICATIONS:

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

- 1. Indeterminate material properties
- 2. Unacceptable material properties

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

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

- 2.1 The safety implications assumed by The Zack Company for the safety-related and seismic identified HVAC systems are:
 - The inability of the materials to withstand the static loads imposed during normal operating conditions.
 - The inability of the materials and structures to withstand a seismic event.

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

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

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

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

3.0 RESULTS OF REVIEW:

The following paragraphs represent a summary of the finding of the review group.

The information has been tabulated as a percentage of total purchase orders. Howev it should be noted that each of the purchase orders may involve from 1 to 15 certifications with an average of 6 certifications per purchase order.

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

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

375

12800

1 9 14

*

PURCHASE ORDER/CMTR PKGS REVIEWED	550 (575	TOTAL	PERCENT	
PACKAGES CORRECT & ACCEPTABLE	145 (343)		SAME AND ADDRESS OF TAXABLE PARTY.	0.627
CLERICAL ERRORS	141		26	J.y
SIGNATURE MISSING	17		3	
SIGNATURE ERRORS	12		. 2	
CWEM/MECH TEST DATA				
U.S. STREL LETTER				
C OF C ONLY.				
NO CERT OR C OF C			The second second	
WRONG STANDARD REFERENCED	11			
CERTS MISSING	22		8	
ANOMALIZES				
ALTERACIONS				
STICKERS	6		. 1	
MISCELLANEOUS				

550

1.15

PURCHASE CRDER/CMTR PKGS REVIEWED	375 (433) TOTAL	PERCINT
PACKAGES CORRECT & ACCEPTABLE	159 (321	4. 0.854
CLERICAL ERRORS	118	3: 2.051
SIGNATURE MISSING	16	
SIGNATURE ERRORS	9	2
CHEM/NECH TEST DATA	13	. 3
U.S. STEEL LETTER	1	-0-
C OF C ONLY	10	:,
NO CERT OR C OF C	4	-0-
WRONG STANDARD REFERENCED	12	
CERTS MISSING	15	7
LISTED BY SITE BUT NOT LOCATED (NOT PART CO TOTAL)		
ALTERATIONS		6
STICKERS	5	
MISCELLANEOUS	7	

1.11

PURCHASE ORDER/CMTR PKGS REVIEWED	(405) 439	TOTAL P	PERCENT	
PACKAGES CORRECT & ACCEPTABLE	1ć9	······································	-27 0.604	í
CLERICAL ERRORS				
SIGNATURE MISSING				
SIGNATURE ERRORS		· artispet ···	22	
CHEM/MECH TEST DATA				
U.S. STEEL LETTER				
C OF C ONLY				
NOT GOOD FOR LA SALLE			2	
WRONG STANDARD REFERENCED			1	
CERTS MISSING			15	
LISTED BY SITE BUT NOT LOCATED (NOT PART OF TOTAL)				
ALTERATIONS	11		3	
STICKERS				
MISCELLANEOUS				
PLOCE MANAGED CO. C.				

4.0 EVALUATION OF DATA

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

4.1 CATEGORIES

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

- 4.1.7 No certification or C of C An analysis of each item has been performe see list in Section 5.
- 4.1.8 Wrong standard referenced Those purchase orders have been analyzed and are detailed in list in Section 5. No engineering evaluation is required.
- 4.1.9 Miscellaneous An analysis of each item has been performed, see list in Section 5.
- 4.1.10 Certifications missing An analysis of each item has been performed, :

 list in Section 5.
- 4.1.11 Stickers -The problem of the purchase orders with stickers on them were given an extensive investigation. This investigation determined that person(s) within The Zack Company organization were responsible for the addition of these gummed labels to the material certifications. However, it must be taken into consideration that individual(s) involved did not believe that the addition of this information (i.e., ASTM designated to an addition of the material.

 The action, while misquided, was done to expedite the release of material that had acceptable chemical and physical properties while the corrected material certifications were being obtained. The Zack Compatalso assumes part of the responsibility for allowing the responsible person(s) to be put in a situation that may have appeared to encourage this type of action or at least did not have the necessaring and balances which would have are unted the occurance.

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

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

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

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

The actual alterations while serious from a programatic view, do not effect the structural integrity of the materials and corrected ropies.

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

4.1.13 Chemical/Mechanical test data - by definition this category covers only those items which a known chemical and physical certification is required and the review has indicated either the data is missing or incorrect.

For those items identified in the attachments where data is missing, the probabilities are extremely high that The Zack Company will locate this information. In those cases where the information cannot be located a physical sample of this material will be identified and those samples will be tested. Based upon the information obtained to date The Zack Compan, is of the firm belief that all those items identified are of an acceptable quality.

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

5.0 IDENTIFICATION OF DEFICIENCIES

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

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

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

- Prevent reoccurrance through the establishment of a series of checks and balances.
- 2. Establish the individual responsibilities and provide the required author to assure implementation.

6.1 PLANSED

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

The group experience represents over 2% years in the documentation field and over 40 years in quality as assume or related areas. Three (3) of the six (6) persons have at least a back for a sequence and two (2) have a Masters degree.

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

- b) No action taken todate.
- and satellite centers will be established at each of the sites.
- All purchase orders and material certifications are now being reviewed by newly established quality engineering group at The Zack Company Chicago offices.
- e) All document packages revalidated are in locked files.
- f) No action token todate.
- have been identified and reprimended by the Eack Company Contribited. This reprimend consisted of demotions in position and documented letters to the personnel files. An intensive and individual limit to the personnel files.

controlled documentation.

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

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

teen (14) people since the 1st of June, 1981 and at least two (2) more quality engineering positions at the Clinton site are contemplated (see organization chart attached).

6.3 SCHEDULED COMPLETION

- certifications from suppliers is scheduled for December 31, 1981.
 - b) A document and records management program will be completed and implement by December 31, 1981.

- personnel presently assigned to the documentation task group now in effe.
 The centralized document center is presently being established and shoul be completed by thoronder 50, 1981.
- d) No further action required.
- e) Completion of the centralized document center discussed above will put a records under lock and key and will limit access to only authorized personnel. This will be implemented by December 1, 1981.
- f) A company training program on documentation will be completed by February 15th, 1982 and training will follow within four (4) weeks.
- g) No further action.
- h) No further action.



CUSTOM METAL FABRICATION

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

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

Actn: Mr. L.E. Davis Site Manage

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

Subject: * tential 10CFR50.55(e)

Gentlemen

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

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

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

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

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

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

Mrs. Christine Zack DeZutel, President

(or) Mr. David E. Calkins, Manager Quality Assurance

at (312) 242-3434.

Very truly yours,

THE ZACK COMPANY

David E. Calkins,

Manager Quality Assurance

DEC/br

cc: Mr. John Rutgers, (BPCo)

Mr. Clark Ash, (BPCo)

Mr. Hank Leonard, (MPQAD Mgr.)

O Calking

C.Z. DeZutel

J.C. DeZutel

C.L. Eichstaedt, Jr.

R.B. McCarley

Q.A. Chicago

Q.A. Midland

4401 WESTERN • FLINT MICHIGAN 48506 • 313/736-2040



CUSTOM METAL FABRICATION

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

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

Attn: Mr. William Harrington

Project Manager

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

Subject: Potential 10CFR50.55(e)

Gentlemen;

Since the determination of the inconsistancies in the HVAC material certifications, a concentrated effort has been expended by The Zack Company to review and validate all material certifications for this project. As indicated in the above referenced letter, upon completion of this revalidation a detailed report would be forwarded for your review and any deficiencies identified would be highlighted which would require Sargent and Lundy's assistance and participation in the evaluation and determination of these deficiencies for a reportable lOCFR50.55 (e) defect.

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

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

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

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

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

Very truly yours,

THE ZACK COMPANY

David E. Calkins,

Manager Quality Assurance .

DEC/br

cc: G. Bennett Browne, Supt. Subcontracts (BA)

J. Smart, (BA/QA)

C.Z. DeZutel

J.C. DeZutel

C.L. Eichstaedt, Jr.

B. LaRoche

T. Packy

Q.A. Chicago

Q.A. Clinton



CUSTOM METAL FABRICATION

October 23, 1981 HVAC Contract #J-2590

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

Attn: Mr. William Donaldson Site Manager

Ref: The Zack Company letter dated September 25, 1981

Subject: Potential 10CFR50.55(e)

Gentlemen;

Since the determination of the inconsistancies in the HVAC material certifications, a concentrated effort has been expended by The Zack Company to review and validate all material certifications for this project. As indicated in the above referenced letter, upon completion of this revalidation a detailed report would be forwarded for your review and any deficiencies identified would be highlighted which would require Sargent and Lundy's assistance and participation in the evaluation and determination of these deficiencies for a reportable lOCFR50.55(e) defect.

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

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

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

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

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(or) Mr. David E. Calkins, Manager Quality Assurance
at (312) 242-3434.

Very truly yours,

THE ZACK COMPANY

David E. Calkins,

Manager Quality Assurance

DEC/br

cc: Mr. L.J. Burke, Site Project Supt.

Mr. T. Quaka, QA CECo.

Mr. J. Dearbeck, CECo.

C.Z. DeZutel

J.C. DeZutel

C.L. Eichstaedt, Jr.

C. Baumgardner

Q.A. Chicago

Q.A. LaSalle

TO: David E. Calkins

Committee to the state of the s

FROM: H. McGrane

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

SUMMARY:

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

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

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

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

DISCUSSION:

The tabulations are presented as follows:

Page 3 - Midland Tabulation

Page 4 - Clinton Tabulation

Page 5 - LaSalle Tabulation

Page 6 - Midland "Stickers" Detailed

Page 7 - Clinton "Stickers" Detailed

Page 8 - LaSalle "Stickers" Detailed

Page 9 - Midland Alterations Detailed

Page 10 - Clinton Alterations Detailed

Page 11 - LaSalle Alterations Detailed

Page 12 - Midland Missing Certs Detailed

Page 13 - Clinton Missing Certs Detailed

Page 14 - LaSalle Missing Certs Detailed

Page 15 - Missing P.O./CMTR Packages

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

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

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

reviewers, "blanket" P.O. etc.

The same of the sa

Voided purchase orders, certs to standards not available to

Miscellaneous -

PURCHASE ORDER/CMTR PKGS REVIEWED		TOTAL	PERCENT
PACKAGES CORRECT & ACCEPTABLE	145		26
CLERICAL ERRORS	141		26
SIGNATURE MISSING			
SIGNATURE ERRORS			
CHEM/MECH TEST DATA			The second secon
U.S. STEEL LETTER			
C OF C ONLY			
NO CERT OR C OF C			
WRONG STANDARD REFERENCED			- Company of the Comp
CERTS MISSING			
ANOMALIES			The second secon
ALTERATIONS			
STICKERS			
MISCELLANECUS			

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TROMASE OFFER/CMTR PKGS REVIEWED	375	TOTAL	PERCENT
PACKAGES COPRECT & ACCEPTABLE	159		42
CLERICAL ERRORS	118		31 '.
IGNATURE MISSING	16.		4
SIGNATURE EPRORS	9		* water 2 .
HEM/MECH TEST DATA	13		3
J.S. STEEL LETTER	1		-0-
C OF C CNLY	6		1
CERT OR C OF C	-0-		-0-
WRONG STANDARD REFERENCED	12		3
CERTS MISSING	27		7 .
LISTED BY SITE BUT NOT LOCATED (NOT PART OF TOTAL)	20		···· <u></u>
ALTERATIONS	22		6
STICKERS	5	<u>.</u>	1
MISCELLANEOUS	> 7		1
경우를 살아보고 하는 것 같은 사람들이 되었다면 하는 것 같아요.			
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PURCHASS OF DER/CY	TR PKGS REVIEWED			
PACKACES CORRECT		405	TOTAL	PERCENT
THEMOES CUIDECT	& ACCEPTABLE	109		
CLERICAL ENGORS.		109		27
		152		37 '
SIGNATURE MISSING		9		
SIGNATURE ERRORS.				2
		3		1
CHEM/MECH TEST DAT	M	10 .		,
U.S. STEEL LETTER,				
	·····	6		1
C OF C ONLY		19		
HOT GOOD FOR LA SA	LIE			
		10		
RONG STAND REF	ERENCED			
CERTS MISSING		5		1
	······_	61		
LISTED BY SITE BUT	NOT LOCATION (MAN			15
	NOT LOCATED (NOT PART OF TOTAL)	40		-0-
ALTERATIONS		11		
STICKERS		- 11		3
		. 3		,
MISCELLANEOUS	······································			
		7		2

79.87

"Sticker" added to Midwest Steel cert to indicate ASTM/year and signature.

"Sticker" added to U.S. Steel cert to indicate ASTM/year and signature.

"Sticker" added to National Metal cert to indicate ASTM/year and signature.

"Sticker" added to National Metal cert to indicate ASTM/year and signature.

"Sticker" added to National Metal cert to indicate ASTM/year and signature.

"Sticker" added to U.S. Steel cert to indicate ASTM/year signature.

C-669 # "Sticker" added to National Metal cover letter to indicate ASTM/year signatur

CLINTON STATION ONLY

(c-7380K

"Sticker" added to Midwest Steel cert to indicate ASTM/year and signature.

CC-742 1

"Sticker" added to U.S. Steel cert to indicate ASTM/year and signature.

"Sticker" added to National Metal cort to indicate ASTM/year and signature.

"Sticker" added to Penn-Dixie cert to indicate Heat No., ASTM/year and

"STICKERS"

LASALIE STATION ONLY



"Sticker" added to Midwest Steel cert to indicate ASTM/year and signature.



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



"Sticker" added to U.S. Steel cert to indicate ASTM/year and signature.

MIDIAND STATION ONLY

(0-	604) of 0	arbon content (chemical analysis) white out and retyped
		STM year added in different type face.
·C-	643 M A	STM year added in different type face.
. (C-	728) 1- 1	.O. number changed on galvanizing cert.
	743 4 Y	ear added to cert.
C-	752 P	.O. number changed on galvaniaing curt.
(c-1	81200 P	.O. number changed on gelvanially cert.
(0-1	855 L N	umber of pcs. changed on galvanizing sert
		.O. number changed on Edgcomb cert.
C-E	970 Y	ear added to kert.
C-1	872 H	eat number changed on cert.
C-8	BDI + A	STM designetion added to cert.
6.9	914	Mawin' cext. P.O. number changed (coil #478)
6	1.	G-20" added to cers.
(c-	M X 050	aterial size added to cert.
(-5	138 P	.O. number changed on cert.
C-9	9400 V	endor name changed on Central Steel cert cover letter.
C-9	946 H	eat number changed on cert.
	48	
		escription and heat numbers enhanced.
-	-	eat number changed on cart.
		.O. number charged on a lvanizing cert.
		aterial Coscription changed on cert cover letter.
		ear added to cert.
		ert cover letter, heat number typed over-
_		ize of material changed on galvanizing cert.
	The same of the sa	ear added to cart.
	-	aterial description changed on galvanizing cert.
	-	eat number enhances on cert.
-		O. number changed on C of C.
5	1100	O. number thenged on cext.
Cen	246 M	O. number changed on C of C.

* ALTERATIONS

CLINTON STATION ONLY

E-6000	Carbon content (chemical analysis) white out and retyped
C-641 02	ASTM year added in different type face.
C-643)e	ASTM year added in different type face.
(c-697)	P.O. number changed on galvanizing cert.
(C-728)2	P.O. number changed on galvanizing cert.
(C-74)	ASTM year added to cert.
C-812	P.O. number changed on galvanizing cert.
C-8550K	Number of pcs changed on galvanizing cert.
C-914	"Kawin" cert., P.O. number changed.
(C-918 de	"G-90" added to cert.
C-739	P.O. number changed on Pittsburgh Testing Lab. cert.
(c-946x)	Heat number changed on cert.
(C-1021	Heat number changed on cert.
C-1022	Material description changed on cert cover letter,
C-1044	F.O. number changed on galvanizing cert.
>c-1077	P.O. number changed on galvanizing cert.
(c-1118)	ASTM year added to cert.
C-1136	Heat number enhanced on Bethlehem Steel cert.
(C-1163	Cert cover letter, heat number typed over.
C-1274	ASTM year added to J&L cert.
C-4420	Year added to cert.
C-1177	Cert cover letter altered.

LASALLE STATION CHLY

(c-601)K	Carbon content (chemical analysis) white out and retyped.
C-6/24	ASTM year added in different type face.
(C-6020K	ASTM year added in different type face.
(C-743)	ASTM year added to cert.
C. 855	Number of pes changed on galvanizing cert.
C-9102	"Kowin" cert, P.O. munber changed.
(C-938)4	P.C. number changed on cert.
C-9490K	Vendor name changed on Central Steel cert cover letter.
	Heat number enhanced.
(C-1)29d	P.O. number changed on galvanizing cert.
Control of the contro	Year added to cert.

C-No. 456 - N.C. (460 % galvanizing 466 - w. gut. w.p. (470 galvanizing 6194 malvanizing C872 722 - W. C. 785 partial CRO12 galvanizing (802)4 w.s.c. 1089 - 4.6. 4014 - N.C. 60342k 0100 Care (1267)× (4334 X (4331 De N.gol. 12303846 (14212) ** (4354) ** (5079A (637 galvanizing 61'sk galvanizing Good galvanizing 689 W.C. 9624 (867) w.p. on gol 113804 (1021)oh 112004 4131 4262 8314 -740C 11503 -4.6. (12310 CAC 12982 - M.C. 13295 - aon 4.6.

576

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

No.

C-No. 561 - N.C. . 704-4.6 (666)4 CHTO! 8017 802 A 4.4. . . (B17ink 1108-0.€. 1135 -4.6. (311404 (100424C 07072k 4122 - v.e 4122 - v.e 4130 k 4137 e-4e 4178 k 4223 k (4262)A 4350 At (1455) -12256 - Cofe en oue 12279 Cyc

Note: See comments on Page 12

Y

- 1

1

TTE: See comment on Page 12

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

C-No.

(502) the doils

(548) at disposit pt.

(592) at silvaria

800 - Missing

922 - Missing

1000 - Missing

1007 - Missing

1007 - Missing

(100) at strong

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

CHICAGO SI HVICE CENTER



Division of United States Steel Corporation

F 0 608 7316 CHICAGO, HITMORE COLDO 317/646 3711

September 21, 1981

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

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

Gentlemen:

In reference to your P.J.'s

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

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

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

Sincerely,

U.S. STEEL SUPPLY

Gerald E. Peters Office Supervisor

GWP/mm

cc: K. Schaefer, Quality Assurance Engineer

We want to work for you.

BEST STATES OF THE BOARD OF THE PARTY OF THE

Attachment to Serial 10034

MIDIAND PROJECT

USNRC RESIDENT INSPECTOR EXIT MEETING OF OCTOBER 31, 1980

An exit meeting was held with the USNRC Resident Inspector, Mr R J Cook, on October 31, 1980. The following were in attendance:

BHPeck - CPCo Construction Supervisor

LADreisbach - Bechtel PQAE

HPLeonard - MPQAD

RJCook - USNRC Reactor Inspector

RWShope - B&W QC Supervisor

Mr Cook discussed the 10CFR21 report on the Delaval Diesel Generators. Mr Cook noted that the letter from Delaval had been received on site September 26, 1980. Mr Cook had been aware of this potential problem by an internal USNRC communication of an earlier date. Mr Cook had brought this problem to CPCo's attention as a result of an inquiry from MJSchaeffer of MPQAD. Mr Cook made the point that although the DeLaval letter is not on its surface obviously a 10CFR21 Report, it still constitutes significant safety information, which was not recognized by Bechtel and CPCo. In short, Mr Cook believes our reporting system is not working well. Mr Dreisbach made the point that while Bechtel did not bring the report to the attention of CPCo, work had been put in progress to evaluate whether our Diesel Generators have the reported deficiency. Mr Dreisbach also made the point that what we had violated was our own procedure, the NQAM, not 10CFR21 per se. Mr Cook made the point that a 10CFR50.55(e) evaluation had not been started until October 24, and he was concerned that information of safety significance, regardless of 10CFR21 requirements, simply had not properly been brought into a system for evaluation. Mr Dreisbach noted that the inspection of the first Diesel Generator had been completed and that no deficiency had been found. Mr Cook advised that he considered the failure to notify CPCo of the 10CFR21 Report to be an Item of Noncompliance (Infraction).

Mr Cook made us aware of an October 1, 1980 USNRC internal letter discussing requirements for Diesel Generator Fuel Oil Quality. Mr Cook had discussed Regulatory Guide 1.137 Requirements and problems known to have occurred at Arkansas 1 with CPCo Operations personnel. CPCo Operations had identified several procedures which relate to the control of fuel oil, but had acknowledged that there was no tying mechanism among the procedures to ensure that all requirements had been met. Documents mentioned by Mr Cook were:

Operations Procedure 4520.1 ...

FSAR Volume IX, Page 3A-160

Station Procedure 1040.6

Technical Specification Page 16.3/4.8-3



TO: Dave Calkins

PROM: H. McGrane

SUBJECT: Interim Report - Documentation Review results, Clinton Station only.

SUMMARY:

The attached sheets tabulate the results of subject review. Approximately 25 P.O./cert packages listed on the Clinton list (telecopy from site) remain to be located/reviewed.

DISCUSSION:

The results of the review have been categorized as follows:

Clerical Errors - Lack of reference to "ASTM", revision year, or any ASTM Standard.

Signature Missing - Lack of written signature.

Signature Error - Typed signature and written signature/initial not identical.

Chemical/Mechanical Test Data - Chemical analysis and/or mechanical test data missing or not in accordance with ASTM standard requirements.

Alterations - Apparent of certification by typed or handwritten additions.

Stickers - Gummed labels applied to certifications or cover sheets. These typed and signed to indicate compliance with ASTM standards ("ASTM"-year) Authenticity of the signatures is questionable.

Missing Certifications - Self explanatory. Certain packages lack certification for all, or for only certain items.

U.S. Steel Letter - Indicates P.O.'s listed in U.S. Steel Company letter to Zack Company dated September 21, 1981 indicating that such P.O.'s were not processed thru U.S. Steel's V & T program.

Voided Purchase Order - P.O. number (control number) listed by Clinton . site as appearing on traveler but voided in Zack Company files.

Other - Various discrepancies - P.O. missing (2) and cert reference grade of steel not listed in ASTM standard - (1).

UNTER-DEPARTMENT CORRESPONDENCE



TO: THOSE LISTED BELOW

DATE: NOVEMBER 10, 1980

FROM: W. W. SCHWIERS

SUBJECT:

WM. H. ZIMMER NUCLEAR POWER STATION UNIT I NRC RESIDENT INSPECTOR'S EXIT MEETING AT MIDLAND PROJECT, W.O. 57300-957, JOB E-5590

Attached, for your information, is a copy of a Consumers Power Company internal memorandum concerning their NRC Resident Inspector's Exit Meeting on October 31, 1980.

W. W. SCHWIERS

JFW:ec

- Addressees:

J. R. Schoot
S. C. Swain
Henry J. Kaiser Co.
Attn: P. S. Gittings
R. Marshall

CORRESPONDENCE



TO: THOSE LISTED BELOW

DATE: NOVEMBER 10, 19

FROM: W. W. SCHWIERS

SUBJECT:

MM. H. ZIMMER NUCLEAR POWER STATION UNIT I NRC RESIDENT INSPECTOR'S EXIT MEETING AT MIDLAND PROJECT, W.O. 57300-957, JOB E-5590

Attached, for your information, is a copy of a Consumers Power Company internal memorandum concerning their NRC Resident Inspector's Exit Meeting on October 31, 1980.

W. W. SCHWIERS

JFW:ec

- Addressees:

J. R. Schott
S. C. Swain
Henry J. Kaiser Co.
Attn: P. S. Gittings
R. Marshall

With respect to the construction phase of the project, Mr Cook noted that fuel oil was not on the Q-list and that the fuel oil tanks were not now in a Q-clean condition. Mr Cook suggested a Q-Program be applied to the first fuel oil supply to be brought on site.

Mr Cook discussed the existing unresolved item regarding lifting of the rotors for the Dicsel Generators. Mr Cook had been reviewing documentation on this issue, which had been provided by DRKeating of MPQAD. Mr Cook stated that he had not yet completed his review and this item would remain open. Mr Cook stated that he believed there were more damaged rotors in the warehouse.

Mr Cook noted that he had previously challenged qualifications of two B&W welders. After discussion with B&W and MPQAD personnel and review of Code requirements, it had been determined that these welders were indeed qualified. However, Mr Cook was concerned that the qualification status was not immediately obvious and that answers from MPQAD personnel did not come forth as readily as he expected. While this concern is not an item for Mr Cook's report, he thought that recent audits should have broached this subject, considering the "first-time" nature of the B&W Steam Generator modifications.

Mr Cook commented on the Graver Tank hydrotesting. Mr Cook noted that moisture had been observed in the tell-tale holes. Such moisture could be indicative of a leaking tank. While Mr Cook does not believe this to be the case and that there is probably no real technical problem here, he believes that the Quality System should recognize and address this situation.

Mr Cook noted that Reactor Coolant Pump Motors were being fitted to the pump bases. While not yet the case, Mr Cook believes that hand fitting may be necessary to assemble these units. If so, such hand fitting needs to be covered by a procedure and documented.

Mr Cook discussed concerns regarding The Zack Company. Mr Cook noted that AWS requires fitting and cleaning of weld joints before welding, but he had been unable to establish that this was an inspection criterion by Zack. Mr Cook noted that it was a requirement to inspect welds prior to painting, but he had been unable to identify a forcing function which causes the inspection to happen first, or which prohibits painting when an inspection has not been done. Mr Cook noted that a problem had been discovered regarding Ruskin Dampers, in that different gauges of metal had been used for construction than had been intended by the design documents. Mr Leonard noted that this situation had already been recognized and that an MPQAD NCR had been written. Mr Cook noted that there appeared to be some confusion regarding the inspection of dampers. It is not clear whether the Ruskin Inspection of the Dampers is solely for the purpose of clearing the earlier 10CFR21 Report or whether the Ruskin Inspection will address some of these other issues. Mr Cook stared he had discussed this with Zack and Bechtel personnel and had been unable to establish that all parties understood what was to happen.

Midlend Project: P.C. Box 1963, Midlend, Michigen 48640 • (517 631-0951

November 4, 1980

Mr W R Bird Consumers Power Co 1945 Parnall Road Jackson, MI 49201

Mr L A Dreisbach Bechtel Power Corp .PO Box 2167 Midland, MI 48640

MIDLAND PROJECT - EXIT MEETING WITH USNRC RESIDENT INSPECTOR ON OCTOBER 31, 1980 File 0.4.2.1 UFI 73*60*12 Serial 10034

CUALITY ASSURANCE
DEPARTMENT

LATE:

ROUVE TO | INITIAL:

I WAS | WAS

V | PLA

V | JCB

PGD

V | RFE

V | DCK

QA FILE:

An exit meeting was held with the USNRC Resident Inspector, Mr R J Cook, on October 31, 1980. Attached to this letter are the minutes of that meeting.

Copies to

JRS

SCS

PSG

RM

HP Leonard

Acting Site QA Superintendent

CC RCBauman
JWCook
LHCurtis
LEDavis
DRKeating
GSKeeley
BkMarguglio
JMilandin
DBMiller
JARutgers
TJSullivan
GBSlade
GSzc otka
RWShope

Great Lakes QA Managers

Attachment to Serial 10033

WIDLAND PROJECT USNRC UP-DATE MEETING OF OCTOBER 17, 1980

An up-date meeting was held in Jackson with the USNRC on October 17, 1980. The following were in attendance:

RCBauman .

WRBird
TLBriningstool
JNLeech
BWMarguglio

Bechtel JMilandin USNRC

. KRNaidu . RNSutphin

Mr R N Sutphin opened the meeting by indicating that it was going to be somewhat of an informal update concerning the activities covered in Ann Arbor & Jackson

Mr Sutphin went over the meeting held in Ann Arbor, which dealt with Personnel Air Locks. Several points of concern remained in that the status of the wraparound welds need to be addressed; ie, additional welding may be necessary. Also, Mr Sutphin stated that the drawings for the personnel air lock configurations has to be updated to reflect the as-built conditions.

Mr Sutphin also mentioned that while he was in the control room the previous week, he noticed an uncapped can of cutting oil sitting on top of one of the main control panels. CPCo agreed with him that if the can would spill it could possibly cause some deleterious effects to internal components and would caution the users to keep all cans capped when not in use.

Mr K R Naidu began summarizing what he had looked into by mentioning first that the J-201 Procurement Specifications G-321D form did not require the vendor (magnetic to supply Welding Procedures and Qualifications, Weld Rod Control Procedures, and Repair Procedures for the main control room boards. Also, he questioned the assumption given in the seismic analys's for the main control boards which assumed the panels were welded with a 3/16 inch weld, 2 inches long and on 6 inch centers. He observed welds less than 3/16 of an inch, and a majority of these welds had a 1/4 x 2 bolt inserted through the center of the welds to fasten ceiling conduit sleeves. Mr Naidu, at this time, did not know how to handle this item. CPCo had Bechtel report this indeterminate condition on NCR No 3178 as soon as the NRC identified it. Mr Naidu alluded to possibly writing this up (the drilling through the welds) as an Item of Noncompliance; however, he needs to further evaluate the condition.

Secondly, Mr Naidu discussed the responses to the Audit done by CPCo in May 1980 (Audit M-01-55-0), in that the Audit Responses had not been sent until July 29, 1980 (over 60 days). He went on by stressing that "the main object is to get things corrected in a timely manner." CPCo agreed to look further into this matter.

Mr Naidu concluded by saying he reviewed several NRC ISE Bulletins and Circulars and went through relay-coordination studies with the System Protection and Laborator; Services personnel. He found no problems in these areas.



To: David E. Calkins, Quality Assurance Manager, Zack Co.

From: A. T. Howard, Supervisor - Document Control, Zack Co.

Subj: Fourth Interim Report - Documentation Review Results as of

January 4, 1982

Please find enclosed a continuous, parallel and updated review report of the P.O./CMTR as of January 4, 1982. Using the Interim Report of October 23, 1981 as an approximate base, it can be quite simple to make a generalized comparative analysis.

It should be noted that the Documentation Engineers previewed and re-reviewed in excess of 2800 purchase order packages. The report highlights less than 1400 P. O. packages. The disparity is due in part to the pkg. being listed for more than one site. However, it is further assumed that the lists of P.O. *s submitted to Chicago by the various sites are incomplete.

It should be further noted that the difference in number of completed and acceptable packages between the two forementioned reports is completely a result of search, research and communicative efforts of the Documentation personnel. These same efforts are being progressively made easier by more cooperative attitude of other Zack associates. It is the optimistic expectation that this same cooperation will be forthcoming from the field locations.

In keeping with the essence of the previous report, one should refer to definitions and arbitrary categories.

As was generalized in the previous report, the categories of alteration, missing certifications, missing signatures and stickers are for the most part cleared as either found or acceptable.

A. T. Howard

ATH/ar enc:

LA SALLE

		8
P.O./CMTR Reviewed	405	
P.O. Pkgs. accepted as correct	289	71.36
No cert (s)	25	6.17
No physical tests	5	1.23
Wrong standard referenced	16	3.95
Missing	9	2.22
No ASTM/year designation	24	5.93
No ASTM	4	1.00
No ASTM year	14	3.46
C of C only	1	.25
Naterial does not meet specification	4	1.00
U.S.S. Supply letter (enclosed)	9	2.22
Clerical error(s)	1	.25
Alteration(s)	0	0
No ASIM/yr.	2	.50
No P.O.	2	.50

CLINION

		-
P.O./CMTR. reviewed	398	
P.O. Pkgs. accepted as correct	327	82.16
No cert	12	3.02
No physical tests	6	1.51
Wrong standard referenced	25	6.28
Missing	6	1.51
No ASTM/year designation	5	1.26
No ASIM	7	1.76
No ASIM year	3	1.00
C of C only	1	.25
Material does not meet specification		
U.S.S.Supply letter (enclosed)	(5)	
Clerical errors (s)	2	.50
Alteration (s)	2	.50
No ASIM/yr.		•
No P.O.	1	.25
No chemical tests	1	.25

MIDLAND DISCREPANT (OPEN)

453	No physicals (coil #225, 226, 227, 228)
454	No certs	
455	No physical tests (coil #229, 230, 231	, 232)
465	No physical tests (coil #233, 233, 235	, 236)
466	Clerical errors	
482	Missing	
491	Missing	
500	Missing	
507	Wrong standard referenced	•
519	No galv. cert	
549	No certs	
552	No certs	
565	Wrong standard referenced	
566	Wrong standard referenced	*
577	No standard referenced	•
589	No standard referenced	
594	Wrong standard referenced	•
602	No physical tests	
603	No physical tests	
624	No physical tests (coil #311,312, 313,	314)
675	No physical tests	
689	No certs	•
708	Missing cert (1 item)	*
711	No physical tests (1 item)	

722	No certs	٠
726	No chemical tests (1 item)	
732	No cert (tubing)	
785	No cert (1 item)	•
837	No ASTM yr.	
856	No ASIM yr.	
866	No ASTM yr.	
867	No physical tests - no galv. certs	•
872	No certs	
891	Clerical errors	
896	No ASIM yr.	
926	No ASIM yr.	
954	No ASIM	
980	Clerical errors	
996	No ASIM yr.	
1021	Alteration (cover letter)	
1074	No ASTM yr.	
1087	No ASIM	
1099	No chemical test data	
1137	Wrong standard referenced	
1138	Wrong standard referenced	
1171	No ASTM	
1228	Alteration (galv. cert)	
1279	Wrong standard referencer.	•
1281	No ASTM yr. desig.	
1291	No ASIM	

4001	Wrong standard referenced	*
4005	No plating referenced	
4018	Wrong standard referenced	*
4021	C of C only	
4023	No standard referenced	
4041	Wrong standard referenced	*
4047	Wrong standard referenced	٠
4048	No standard referenced	٠
4058	Wrong standard referenced	٠
4060	Wrong standard referenced	*
4064	Wrong standard referenced	٠
4069	Wrong standard referenced	٠
4075	Wrong standard referenced	٠
4080	Wrong standard referenced	
4088	Wrong standard referenced	
4100	Wrong standard referenced	٠
4128	Wrong standard referenced	•
4131	Wrong standard referenced	•
4221	Wrong standard referenced	
4286	Wrong standard referenced (plating)	
4331	No plating ref.	•
4334	Wrong standard referenced (plating)	
4338	Wrong standard referenced	
4354	Wrong standard referenced	
7314	No certs	

9210	No certs
9401	No physicals
9402	No physicals (coil #125, 126, 127)
9403	No physicals (coil #118, 119, 120)
9407	No physicals (coil #110, 111, 112)
9409	No physicals (coil #180)
9410	No physicals (coil #113, 114, 115, 116)
9411	No physicals (2 items)
9412	No ASTM/yr. designation
9413	No physicals (coil #156, 157)
9417	No physicals (coil #101, 102, 103, 104)
9445	No physicals (coil #202, 203, 204)
12251	No ASTM/yr. designation
12310	No ASTM yr.
12312	Wrong standard referenced *
12334	Wrong standard referenced *
12339	Wrong standard referenced *
12340	Wrong standard referenced *
13136	No test reports
13183	No ASTM/yr. desig.
13206	Wrong standard referenced *
13215	Wrong standard referenced *
13220	No ASIM/yr. desig.
13233	No ASIM/yr.
13244	Wrong standard referenced *
13246	No certs (galv.)

13247	Wrong standard referenced	*
13251	Wrong standard referenced	
13254	Wrong standard referenced	*
13260	Wrong standard referenced	•
13261	No ASTM yr. design C of C only	
13262	Wrong standard referenced	
13263	Wrong standard referenced	
13273	Wrong standard referenced	
13275	No ASIM yr.	
13276	No certs	
13474	No certs	
13299	No ASIM/yr. desig.	
13514	No certs	
14391	No certs	
14665	No certs	
14666	No certs	
15066	No certs	
16255	No certs	

^{*} Possible Engineering disposition required

CLINTON DISCREPANT (OPEN)

561	No certs	
614	Wrong heat #	
624	No physical tests	
668	# of material galvanized does not	equal # material received
696	Wrong standard referenced	•
704	Cert missing (one item)	
745	No physical tests	
757	Wrong standard referenced	
764	Wrong standard referenced	************
766	Wrong standard referenced	
804	Wrong standard referenced	
817	No ASTM/year designation	
827	No ASTM year	
857	No certs	
861	No chemical tests	
986R	No P.O.	
1016	No ASTM	
1021	Alteration (cover letter)	
1063	No ASTM year	
1077	No galvanizing cert	
108	No certs	
1.135	C of C only	i
166	No ASIM	
171	No ASIM	
177	No calvanizing cert (one item)	

1186	No ASTM	
1247	No cert (one item)	
1254	No ASTM	
1279	Wrong standard referenced	
1288	No ASTM year	
1289	No ASTM/year designation	
1316	No ASTM	
1329	No galvanizing cert (one item)	
1375	No ASIM	
4004	Wrong standard referenced	
4017	No certs	
4081	No ASTM/year designation	
4113	Wrong standard referenced	*
4116	Wrong standard referenced	*
4137	Wrong standard referenced	*
4148	Wrong standard referenced	*
4164	No certs	
4209	Wrong standard referenced	*
4216	Wrong standard referenced	*
4269	Wrong standard referenced	*
4295	Wrong standard referenced	
4338	Wrong standard referenced	*
4358	No ASTM/year designation	
5357	Missing	
9409	No physical tests	
9410	No physical tests	
9411	No physical tests	

12139	Missing	
12256	Wrong standard referenced	
12257	Wrong standard referenced	
12265	Wrong standard referenced	
12279	Wrong standard referenced	
12285	Wrong standard referenced	
12286	Wrong standard referenced	
12299	Wrong standard referenced	
12724	Alteration	
13214	Wrong standard referenced	
13219	No cert (One item)	
13215	No certs	
13280	Wrong standard referenced	
9445	No physical tests	
15508	No certs	
14436	Missing	
14923	Missing	
14968	Missing	
665	No ASTM/year designation	

^{*} Possible engineering disposition required

451	No ASTM/yr. designation	
452	No ASTM/yr. designation	
454	No certs	
455	No physical tests	
465	No physical tests	
491	Missing	
508	No ASTM/year	
519	No galvanizing cert	
520	No galvanizing cert	
522	No certs	
542	Wrong standard referenced	
549	No certs	
566	Wrong standard referenced	
567	No ASTM/year designation	
572	No certs	
566	Wrong standard referenced	
567	No ASIM/year designation	
572	No certs	
597	Wrong standard referenced	
599	Missing	
602	No physical tests	
603	No physical tests	
616	No ASTM/year	
617	No ASTM	
The second secon		

La Salle Discrepant - (Open) - pa

627	No ASTM/year designation
472	No ASTM year
630	No ASTM
639	No ASTM/year designation
651	No ASIM/year designation
652	No ASTM/year designation
668	# of material galvanized does not equal # material received
683	No physical tests
696	Material not to standard *
704	Cert missing
714	No cert
722	No certs
764	Wrong standard referenced *
798	No certs
804	Material does not meet specification *
852	Material does not meet specification *
893	No certs
909	No ASTM year
954	No ASIM
956	No ASTM year
1186	No ASIM
1329	No galvanizing cert
3111	No ASTM year
4004	Wrong standard referenced *
4014	No certs
4021	C of C only

4023	Fo ADM/year designation
4048	No ASTM/year designation
4052	Material wes not met specification
4080	Wrong standard referenced
4081	No ASIM year designation
4105	Wrong standard referenced
4137	Wrong standard referenced
4157	Wrong standard referenced
4205	Wrong standard referenced
4216	Wrong standard referenced
4268	No certs
4270	No certs
4285	Wrong standard referenced
4286	Wrong standard referenced
4289	No certs
4294	Wrong standard referenced
4312	Missing
4348	No ACTM/year designation
5759	No certs
5776	No certs
6813	No ASIM/year designation
9242	No galvanizing certs
9244	No ASTM/year
9251	No certs
9401	No ASTM/year designation
9402	No ASTM/year designation
9403	No ASTM/year designation
9411	No ASTM/year designation

9412	No ASTM/year designation
9413	No ASTM/year designation
9414	No ASTM/year designation
9415	No ASIM year
9416	No ASTM year
9417	No ASTM/year designation
9419	No ASTM year
9420	No ASTM year
9421	No ASTM year
9422	No certs
9427	No ASTM year
9429	No ASTM/year designation
9442	No certs
9444	No ASIM/year designation
9450	No ASIM year
9455	No ASTM year
9501	No certs
9505	No P.O.
9506	No certs
9762	No P.O.
9636	Missing
10784	No ASTM year
11237	Wrong standard referenced *
11271	Missing
11544	No certs
12206	Wrong standard referenced *
12235	No ASIM/year designation
13246	No ASTM/year designation (zinc plating)

13912	Missing		
16429	Missing		
17103	Missing		
736	No certs		

Note: * Possible engineering disposition required

(""

P

ALL SITES - DISCREPANT (OPEN)

456	No certs				
460	Wrong yr. referenced				
464	No phys no ASTM yr (coil #237, 238, 239 240)				
468	No phys.				
586	Anomalie				
601	No ASIM yr.				
604	Cert altered - no ASTM/yr. designation				
606	No phys. (OK LaSalle)				
609	No phys. (OK LaSalle) (coil #275, 276)				
611	No phys. (OK LaSalle) (coil #280, 281, 282, 283)				
632	No phys.				
633	No phys no ASTM/yr. (coil #315, 317, 318)				
642	Cert altered - No ASTM/yr. designation				
644	No ASTM , .				
652	No phys.				
665	No ASIM/yr. designation - no ASIM yr.				
684	(N.G. Midland) A500 mtl. to 1974				
701	No phys. (coil #359, 360, 361,363)				
711	No phys alteration #s enhanced				
717	No G90 designation				
724	Hardness test not identified - no ASTM/yr. designation				
738	No phys.				
742	Gauge is different				
746	No ASTM yr.				
752	Rel. gal cert altered (P.O.#) No certs 752-1, 752-2, 752-3 no ASIM				

2

ALL SITES - DISCREPANT (OPEN)

456	No certs	
460	Wrong yr. referenced	
464	No phys no ASTM yr (coil #237, 23	8, 239 240)
468	No phys.	
586	Anomalie	
601	No ASTM yr.	
604	Cert altered - no ASTM/yr. designation	
606	No phys. (OK LaSalle)	
609	No phys. (OK LaSalle) (ox	oil #275, 276)
611	No phys. (OK LaSalle) (ox	oil #280, 281, 282, 283
632	No phys.	
633	No phys no ASTM/yr. (coil #:	315, 317, 318)
642	Cert altered - No ASTM/yr. designation	
644	No ASIM yr.	
662	No phys.	
665	No ASIM/yr. designation - no ASIM yr.	
684	(N.G. Midland) A500 mtl. to 1974	
701	No phys. (coil #3	59, 360, 361,363)
711	No phys alteration #s enhanced	
717	No G90 designation	
724	Hardness test not identified - no ASTM/y	r. designation
738	No phys.	
742	Gauge is different	•
746	No ASIM yr.	
752	Rel. gal cert altered (P.O.#) No certs 75 no ASIM	52-1, 752-2, 752-3

762	No. 2004/4-	
762	No ASIM/yr.	
770	No phys. (.036 & .030	
797	No phys.	(∞il #426, 427)
802	No phys. (Item 5) No designation	gal cert (Item 5) No ASTM/yr.
806	No mtl. certs	
820	No ASIM yr.	
821	No phys.	No ASIM yr.
822	No phys.	No ASIM yr.
823	No phys.	No ASTM yr.
827	No ASIM yr.	
830	Ht #altered	No ASTM
839	Blanket P. O.	
851	No phys.	No ASTM yr. (coil #449, 450, 451, 452, 46
855	No ASIM/yr.	
888	No mtl certs	No ASIM yr.
889	Alteration of P.O.#	
912	No phy.	(OK LaSalle) (coil #462, 463, 482, 499, 50 501, 502)
917	Tensile data added	No ASIM yr.
983	No mtl cert	(coil 515)
987	No ASTM yr.	
1041	Cert altered	No ASIM
1048	No mtl cert (Item 104	18-1) chem. on invoice
1070	No phys.	No ASTM yr.
1076	No ht #	
1089	No mtl certs (item 10	089-5)

1133	No phys.
1195	No chem.
1238	U.S. Steel Supply ltr.
1255	No ASTM
G3114	No ASIM/yr.
4055	No phys. & chem. (Hex nuts)
9247	No ASTM/yr.
11503	No certs (pop rivets)
12238	No certs (malleable clamp)
12281	Wrong std. referenced (nuts)
12303	C of C only (zinc plated rod)
12304	C of C wrong std. (hex nuts)
12434	No certs (butt hinge)
13238	C of C on packing slip (vent glas)
13255	C of C - no std. referenced (tek screws)
13268	C of C - no std. referenced (tek screws)
13293	C of C - wrong std. referenced (nuts-bolts)
9247	No physicals (coil #257, 258, 259, 261, 262, 263, 278, 279)
663	No physicals (coil #347, 348, 349, 350)
803	Material does not meet spec. std.
955	No ASTM

Results/Summary of Review (Fourth Interim)

1.	Increase of	No. of correct pkgs.	3rd	to	4th (report)
		A. Midland B. LaSalle C. Clinton	145 109 159		365 289 327
2.	Increase of	% of complete pkgs.			
		A. Midland B. LaSalle C. Clinton	26 37 42		65.77 71.36 82.16
3.	Approximate	% of Engineering Disposition cas	ses		
		A. Midland B. LaSalle C. Clinton	69 36 40		12.43 8.89 10.05

<u>All</u> items not followed by an asterisk can possibly be cleared by continued effort of the Documentation Department in Chicago. Items followed by an asterisk carry the distinct possibility of a need for Engineering disposition/resolution.

MIDLAND

		-8_
P.O./CMTR Reviewed	555	
P.O. pkgs. accepted as correct	365	65.77
No cert	29	5.22
No physical tests	43	7.75
Wrong standard referenced	44	7.93
Missing	5	1.00
No ASTM/year designation	18	3.24
No ASTM	6	1.08
No ASTM year	15	2.70
C of C only	4	1.00
Material does not meet specification	2	.36
U.S.S. Supply letter (enclosed)	(19)	
Clerical error(s)	7	1.26
Alteration(s)	9	1.62
No ASIM/yr.	5	1.00
No chemical tests	3	.54

Re



James W Cook
Vice President - Projects, Engineering
and Construction

General Offices: 1945 West Farnall Road, Jackson, MI 49201 • (517) 788-0453

July 28, 1983

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

MIDLAND ENERGY CENTER PROJECT DOCKET NOS 50-329 AND 50-330 IE BULLETIN 79-02 FILE: 0505.12 SERIAL: 23757

References: CPCo letters to J G Keppler; Midland Project; Docket Nos 50-329, 50-330; IE Bulletin 79-02:

- 1) Serial Howe-195-79; dated July 3, 1979
- 2) Serial Howe-233-79; dated August 15, 1979
- 3) Serial Howe-84-80; dated May 7, 1980
- 4) Serial 9107; dated June 9, 1980
- 5) Serial 10049; dated October 31, 1980
- 6) Serial 11505; dated February 26, 1981
- 7) Serial 14636; dated December 15, 1981
- 8) Serial 17510; dated June 1, 1982
- 9) Serial 20684, dated January 28, 1983

References 1 through 9 are correspondence which address IE Bulletin 79-02. References 3 through 9 reported that further evaluations and corrective actions were required to completely address 79-02.

Attachment 1 provides another interim report on this subject. Either a final response or a status report will be provided by January 31, 1984.

JWC/JPK/cd

CC Document Control Desk, NRC Washington, DC

RJCook, NRC Resident Inspector Midland Nuclear Plant

OCO783-CO40A-MP01

4308160297

James W. Cook

REPORT FOR ISE BULLETIN 79-02

SUBJECT: I&E BULLETIN 79-02

"PIPE SUPPORT BASE PLATE DESIGNS USING

CONRETE EXPANSION ANCHOR BOLTS"

INTERIM REPORT

DATE: July 26, 1983

1. Ancho Bolt Use Prohibition

- a. An agreement has been reached with the original pipe support design agency to allow a one-time design deviation that permits expansion anchor bolts to remain in the first two supports on either side of a pump, provided the calculated bolt load is 25% or less of the anchor bolt specification allowable. Pipe supports that do not meet these criteria will be reworked.
- b. The primary design agency has prepared a report to document their design methodology. The method has been determined to be acceptable. Bechtel review of the first submittal of this report has been completed, and Bechtel comments have been addressed by the design agency in a revised report. Bechtel review of the revised report will be completed by September 30, 1983.
- c. Discrepant pipe support designs issued by the pipe support design agency and documented on nonconformance reports have been dispositioned. All pipe support designs issued by the primary pipe support design agency are being rereviewed for proper anchor bolt usage. This review is now being conducted to a priority based on the seimsic reanalysis schedule rather than the turnover schedule as previously stated. The new schedule for completion of the review is now anticipated to be November, 1983.

2. Determination of Proper Embedment Depth

- a. The inspection of anchor bolts used for pipe supports is addressed in Section 6.
- b. It has been concluded that no further testing and inspection for embedment depth is required for expansion anchors used on non-pipe support applications. This conclusion is based

23347

on the results of the reinspections of expansion anchors used on pipe supports, and heating, ventilating, and air conditioning Seismic Category I support applications.

Reinspection and testing in accordance with project specifications (issued to satisfy the requirements of I&E Bulletin 79-02) for pipe support anchors installed before May 30, 1980, was completed. Of 1,631 expansion anchors reinspected, 65 did not meet the requirements for embedment depth. These results indicate, with a 95% confidence level, that over 95% of the anchors satisfies the criteria for embedment length. Additional reinspection and testing of expansion anchors used for heating, ventilating, and air conditioning Seismic Category I supports was performed. Of 4,565 expansion anchors reinspected, 72 did not meet the requirements for embedment depth. These results also indicate, with a 95% confidence level, that over 95% of the anchors satisfies the criteria for embedment depth.

c. The controls initiated in May, 1980 for length marking and quality control inspection (MCAR 31) provide assurance that embedment depth will not pose a problem.

3. Demonstration of Achievement of Required Factor of Safety

- a. Midland-specific tests to determine the amount of preload remaining in the bolt indicate that an average of 37% of the original preload remains in the bolt after 1 year. Other tests (References A and B) have established that the amount of preload on the bolts will not affect the preformance of the anchorage. If the initial installation torque on the bolt accomplishes the purpose of setting the widge, then the ultimate capacity of the bolt is not affected by the amount of preload present in the bolt at the time of cyclic loading. These tests (Reference A and B) indicate no anchor pullout failures occurred as a result of cyclic loading and that preload is not required to withstand cyclic loading. A revised response to I&E Bulletin 79-02 has been completed.
- b. An additional static tension test (Reference C) to supplement the manufacturer's data was completed. The final report, combined with the manufacturer's data, establishes that all sizes of expansion anchors used for pipe supports under the scope of I&E Bulletin 79-02 on the Midland project met the required factor of safety for pullout.

12334.7 MCAR Status

a. MCAR 34:

Bechtel Management Corrective Action Report (MCAR) 34 final report, concerning installed drop-in anchors, has been issued. No further new corrective action is required. Required rework has been completed and MCAR 34 was closed on December 14, 1982.

b. MCAR 31:

MCAR 31 revised final report, concerning embedment depth of expansion anchors, was issued May 10, 1982. Corrective actions associated with MCAR 31 are complete and the MCAR was closed on May 24, 1982.

Reportability Review

Review of the results of the inspection and tests identified no items with a safety impact. Results of future analyses will be reviewed for reportability under 10 CFR 50.55(e).

6. Additional Expansion Anchor Inspections

Inspection of 100% of the accessible pipe support expansion anchors installed before May 30, 1980, is complete. An evaluation of the adequacy of the inaccessible anchors (less than 6.7% for any parameters), based on the inspection results of the accessible anchors, is now complete. As a result of this review, it has been determined that no rework of the inaccessible anchors will be required. Identification and completion of the rework for the inspected anchors is now approximately 90% complete. The remaining 10% will be reworked as part of the Construction Completion Program (CCP). A detailed schedule for system completion under CCP is currently being developed. Actual implementation is subject to NRC concurrence that work can proceed. It is anticipated that an actual schedule will be available for inclusion in the next report.

REFERENCES

- A. Teledyne Engineering Services Technical Report 3501-2 for Utilities/TES Owners Group Summary Report Generic Response to US NRC I&E Bulletin 79-02.
- B. Commonwealth Edison Company Summary Report, Static, Dynamic and Relaxation Testing of Expansion Anchors in Response to NRC 1&F Bulletin 79-02.
- C. Final Report on Concrete Expansion Anchor Static Tension Tests for Bechtel Power Corporation, March, 1982, Wiss, Janney, Elatner and Associates, Inc.



UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON D. C. 20555

June 9. 1983

Docket Nos.: 50-329 OM, OL

50-330 OM, OL



MEMORANDUM FOR: The Atomic Safety and Licensing Board for

the Midland Plant, Units 1 and 2

FROM:

Thomas M. Novak, Assistant Director for Licensing

Division of Licensing

SUBJECT:

BOARD NOTIFICATION - ZACK REPORT ON WELDER RECORD

DISCREPANCIES (83-79)

This information is provided in accordance with the present NRC procedures regarding Board Notifications.

The enclosed Zack report constitutes a followup item co BN 82-94, "Zack Part 21 Report on Welder Record Discrepancies." BN 82-94 indicated that Zack would be investigating a potential 10 CFR 21 reportable deficiency regarding accuracy of welder records. The enclosed report documents Zack's investigation and subsequent decision that this item does not constitute a 10 CFR 21 deficiency.

> Thomas M. Novak, Assistant Director for Licensing

Division of Licensing

Office of Nuclear Reactor Regulation

Enclosure Zack Report

cc: See next page

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DISTRIBUTION LIST FOR BOARD NOTIFICATION

Midland Units 1&2, Docket Nos. 50-329/330

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MIDLAND (For BNs)

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UNITED STATES NUCLEAR REBULATURY CONTACTION REG ON IN TO MUCES BUT ROAD THE BULKNING S 10107

JUN 0 1 1983

MEMORANDUM FOR: D. G. Eisenhut, Director, Division of Licensing, NRR

FROM: R. F. Warnick, Director, Office of Special Cases

SUBJECT: RECOMMENDATION FOR FOLLOWUP NOTIFICATION OF LICENSING BOARD

REFERENCES: BOARD NOTIFICATION - ZACK PART 21 REPORT ON WELDER RECORD

DISCREPANCIES (BN 82-94)

Enclosed is the Zack investigation report of the welder record discrepancies identified previously in the referenced Board Notification. The Zack Company is a heating, ventilation, and air conditioning (HVAC) subcontractor at three power plant construction sites within Region III (Clinton, LaSalle and Midland). The subject investigation report serves as the basis for Zack's decision to withdraw its report of a potential 10 CFR 21 concerning the welder record discrepancies.

If you have any questions or desire further information regarding this matter, please call me.

RFWarnick

R. F. Warnick, Director Office of Special Cases

Enclosure: As stated

· cc w/encl:

A. B. Davis

J. J. Harrison

R. N. Gardner

R. B. Landsman

R. J. Cook

duy of 8406020077

4401 WESTERN • FLINT MICHIGAN 48506 • 313/736-2040



CUSTOM METAL FABRICATION September 28, 1982 7220-M-151-C/B-643

Mr. L.E. Davis Site Manager Bechtel Power Corp. P.O. Box 2167 Midland, Michigan 48640

Subject: INVESTIGATION INTO APPARENT DISCREPANCIES IN WELD RECORDS

Mr. Davis.

Recently, as the result of a Zack Company report to Region III of the U.S.N.R.C. of a potential 10CFR21 condition, the Zack Company conducted an investigation into approximately 11,400 Travelers that exhibited conditions that put the authenticity of the welder of record in question.

This condition came to light when approximately 11,400 zerox copies of Shop Travelers were discovered while Zack personnel were attempting to discard them. A cursory initial review revealed that these photocopies con sined welder identification and other fabrication information. It was decided that a small-scale comparison to the Record Copy of these photocopied Travelers should be made.

During the comparison, it was noted that, in most cases, the photocopy Traveler did not match the Record Copy in that different initials both in quantity and identification, appeared on the photocopy than were indicated on the Record Copy.

At this point, it was decided by the Zack Company that a full-scale investigation was required, that a potential 10CFR21 condition existed, and that the U.S.N.R.C. should be notified.

The U.S.N.R.C. was notified on July 29, 1982 and a full-scale investigation was initiated. As a result of this investigation, the Zack Company officially withdrew its report of a potential 10CFR21 on September 14, 1982 as it was determined by Zack Company Quality Assurance and Zack Company Management that a 10CFR21 condition did not exist.

cont'd on page 2

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

Mr. L.E. Davis Midland, Michigan September 28, 1982 7220-M-151-C/B-643

Following, for your information, is an in-depth report on the investigation and the results as they affect the Midland Project.

Sincerely,

Raymond J Basiaga Lead Q.A. Engineer

RJB/lf Encl.

CC: H. Leonard, CPCO
R. McCarley, Zack
C.Z. DeZutel
J.C. DeZutel
D. Calkins
D. Malzahn
M. Skates
Doc. Control File,
O.A. File

INVESTIGATION INTO APPARENT DISCREPANCIES IN WELD RECORDS RELATIVE TO THE MIDLAND PROJECT

Sept. 27, 1982

die 8.

The condition that was investigated to determine if it failed to comply with the Atomic Energy Act of 1954 as amended, or that the components supplied contained defects which could create a "substantial safety hazard", was due to the apparent discrepancy between "working" (photocopy) copies of Shop Travelers containing welder identifications and the official Quality Record Copies (yellow) of these Travelers which contained conflicting welder identifications.

Overall, the Travelers with discrepancies were found to have been used to fabricate HVAC components to be installed at all three currently active contract facilities, but were limited to work performed at the Zack Company facilities at Cicero, Illinois and Chicago, Illinois. Information in this report pertains to MIDLAND PROJECT only.

The Travelers in question are part of a system utilized by the Zack Company to record as-built, as-welded conditions and inspection verifications for fabricated HVAC components. Certain "working" (photocopy) copies of the official Travelers utilized by production tradesmen contain the initials/numbers of various personnel who apparently performed some work function on the component(s) listed on an individual Traveler. Relevant information such as welder identification was then transferred to the official Record Copy (yellow).

These "working" copies were reviewed against the official copy and all discrepancies between the two were noted and evalutated to determine if they would create a substantial safety hazard.

The investigation had two (2) specific goals:

A. To determine if the inconsistancies between the "working" copies and the original Travelers could result in a condition that would create a substantial safety hazard.

B. To determine if the individual(s) involved were trying to remove evidence of a deviation with malice aforethought.

The following action plan and work assignments were directed at achieving goal "A" above. Zack Company Management in conjunction with legal advisors addressed the resolution of goal "B" above.

To determine if the inconsistancies resulted in a substantial safety hazard, they were collated, reviewed, catagorized and evaluated.

"Working"Copies were collated by:

- 1. Project
- 2. Safety related/Non-Safety related
- 3. By the type of information contained on the "working" copy.

This report deals only with Travelers identified as safety related.

The following types of information were obtained and used to provide background and to substantiate the validity of the records.

- A. Payroll records to set time frames for welders employment at Zack.
- B. Load Shipment Dates to support work and inspection dates.
- C. Welder hire dates, qualification dates and termination dates.
- D. Support personnel hire, and termination dates (i.e. cleaners, inspectors, etc.)
- E. Weld wire issue dates for Plant 2 (Kilbourn Avenue).

Using the above information, the review process was started and progressed as described on page 4.

The first review identified all "working" copies that contained no fabrication or identification information and, therefore, could not disagree with the Record Copy. These were put in numerical order, cataloged and removed from further consideration.

Sept. 28, 1982 Page 4 of 10

The second review compared the "working" copies to the Record Copies (which had been removed from file for this comparison) for the following:

- A. Unqualified welders indicated on the working copy.
- B. Welders listed on the "working" copy that did not appear on the Record Copy.
- C. Any personnel identifications on the "working" copy (i.e. initials or I.D. numbers) not immediately identifiable.
- D. "Working" copy in total agreement with Record Copy.
- E. To note any other variations or discrepancies.

The above information was catagorized as stated below.

- CATEGORY 1 (Indicated by "Yes" on tally sheets) "working" copy and Record Copy agree and welder(s) qualified.

 (Item D above).
- CATEGORY 2 (Indicated by "Yes X" on tally sheets) "working"

 copy and Record Copy differ with all welders involved

 being qualified. (Item B above).
- CATEGORY 2 (Indicated by "No" on tally sheets) "working" copy and Record Copy differ and unable at this stage to establish if all welders are qualified.

 (Items A and C above).

At this point in time, <u>Catagories 1 and 2</u> were eliminated from further review as it was determined that no serious problem existed as long as all welders identified were qualified.

Category 3 was further broken down as follows.

- A. Date discrepancies exist for welder qualification because of inability to establish actual work or inspection dates.
- B. No weld procedure was listed on "working" or Record Copy.
- C. Two weld procedures were listed on either copy, but welders listed were qualified to only one or to neither.
- D. Welder apparently not qualified or unidentifiable initials on either copy.

- E. Welder not qualified on best available indication of work date, but qualified at a later date.
 - Qualification not prior to Traveler issue date, no work/ inspection date available.
 - 2. Qualification not prior to actual work/inspection date.
- F. Miscellaneous variations or discrepancies.

To provide the most expeditious handling of this volume of paperwork through the review cycle to this point while maintaining the level of integrity required, the Zack Company brought in five (5) Engineers from one of our field operations to assist in the review.

Internal departments provided the following support.

DRAFTING DEPT: Located and matched record copies with "working" copies.

ENGINEERS: Reviewed "working" copies vs. Record Copies, noted and recorded and categorized differences.

DOCUMENT CONTROL: Provided control and security for all relevant documents and assisted in logging/filing operations. The above group operated under Mr. Tom DeLafosse, Project Coordinator who was assigned the Lead Function.

ACCOUNTING DEPT:Provided payroll and employment records to validate time frames for individual welders' work, and for various other support personnel.

Q.A. DEPT: Developed welder and cleaner/inspector matrixes and functioned as part of the review team.

The above group operated under Mr. Ray Basiaga, Lead Q.A. Engineer who was assigned the Lead Function.

CORPORATE MANAGEMENT provided coordination, additional required management, individuals relevant to the investigation for interview, review and approval of all phases of the review and support to all individuals involved throughout the effort.

All relevant personnel were interviewed during the various phases of the investigation and said interviews were documented when deemed appropriate. Information obtained in this form that was based facts, not opinion, and that could be substantiated, was used in the evaluation. All other information was simply recorded and included for information only.

The final evaluation of the Travelers in Category Three (3) ("No") was conducted by Mr. Dave Calkins, Manager of Nuclear Construction, Mr. Tom DeLafosse, Project Coordinator and Mr. Ray Basiaga, Lead Quality Assurance Engineer.

The goal of the final evaluation was to determine if the inconsistancies noted on all copies of the remaining Category Three (3) ("No") Travelers raised any questions as to the quality of the workmanship.

The final evaluation utilized the finalized welder qualification matrix containing all information available from Pittsburgh Testing Laboratories in addition to information on file at the Zack Company. This matrix included welder name, I.D. No., hire date, termination date, and qualification date for each welding process.

Also utilized was a listing of shop cleaning and inspection personnel. This list was compiled from personnel records and verified by plant supervision. This list included name, I.D. No., hire date, termination date and position.

The following shop practices, confirmed by interview, were considered credible and accepted as valid for the purpose of the final review.

Shop Personnel often marked dimensional, operational or identification information on the "working" copy of the Traveler.
 This information was not required to be on the Record Copy of the Traveler by either procedure or regulation.

- 2. Cleaning Personnel generally circled their initials or I.D. No.
- 3. Layout or Cutting Personnel generally initialed their work within the cut list portion of the Traveler.
- Inspection Personnel identified by their initials, symbol or I.D. No., were considered as acceptable as none have ever worked for the Zack Company as welders.
- 5. Welders normally initialed beside the work they performed and indicated completion with the word "out".
- 6. Sheet Metal workers from various locals are generally not qualified to AWS Standards. The Zack Company often had these personnel working as helpers with Zack Company certified AWS qualified welders until they became familiar with AWS Standards and Zack procedures. Their initials on the "working" copy do not indicate that they welded, but served as a means of tracking their training. However, for purposes of this report, it has been assumed that they did weld and were evaluated accordingly.

The results of the comparison between the "working" copies and Record Copies of Shop Travelers are included as attachments. The attachments are collated in progression from the earliest results to the final results.

In conclusion, a complete and thorough investigation has been conducted by the Zack Company of the information contained on the "working" copies and Record Copies of Shop Travelers.

This investigation has revealed that in some cases there is additional and/or different information on the "working" copies than on the Record Copies. There is, however, no basis for establishing that the "working" copy is complete and correct or that the Record Copy is in error. The Zack Company has taken the position that the "working" copies will be attached to the Record Copy and retained as a part of the permanent record thereby accounting for all personnel with any possible relevance to the work. It is also the position of the Zack Company that any individual identified by initials or I.D. No. on either copy, who ever worked as a welder during his term of

employment with the Zack Company, was to be considered a welder at the time his identification was put on the Traveler.

Accepting this as the worst possible condition, the Zack Company has been able to account for all persons identified on the Travelers in question. On over 96% of the Travelers, all individuals identified as welders were qualified at the time the work was performed. For the remaining Travelers, all welders with the exception of Mr. Ken Gibson, were qualified at a later date. Of these fourteen (14) welders, six (6) were qualified within thirty (30) days, the remaining eight (8) within six (6) months.

It was upon assurance that the welders were qualified in accordance with applicable codes, regulations, and/or contractual requirements and that all welds were inspected to respective criteria that the determination was made that no "Fefect", as defined in 10CFR21 Para. 21.3D existed, and it was at this time that our report to the U.S.N.R.C. was withdrawn.

With regard to Mr. Ken Gibson, the Zack Company has recognized that it never certified Mr. Gibson in accordance with the requirements of the AWS Code. However, this in no way implies that Mr. Gibson was not a qualified welder or deminishes his ability to produce quality welds in accordance with Zack Company approved weld procedures.

Mr. Gibson has been involved in and been a qualified welder working for various mechanical contractors over the past sixteen (16) years. He has been qualified with the Zack Company at the Clinton Nuclear Project for the past twenty (20) months. Therefore, while the Zack Company may have been remiss in not having put Mr. Gibson through the certification process, it should be noted that this in no way detracts from his previous qualifications and ability to produce sound, quality welds.

Mr. Gibson only worked in the lack Company, Chicago facility, for a period of Your [4] months between July, 1978 and November, 1978

and The responsible for welds on one (1) Traveler for the Midland Project. This discrepancy with respect to Mr. Gibson's qualifications and the Midland Traveler, is an internal Zack Company protions and the Midland Traveler, is welds were inspected and cedural violation only. Mr. Gibson's welds were inspected and accepted to the same standards all other welders are required to meet.

The one Traveler (F6654) welded by Mr. Gibson is still in existance at the Midland Project for one transition piece. This piece will be reinspected and replaced by the Zack Company if found unacceptable.

The following events were considered relevant in either understanding the reasons the inconsistancies could have occurred or in
judging that the inconsistancies did not indicate a significant
problem:

The Zack Company went from a single plant operation to a twoplant operation at the opening of its Chicago facility on
kilbourn Avenue. The plant was purchased in February, 1979
kilbourn Avenue. The plant was made operational in
and after initial refurbishment it was made operational in
May, 1979 and was operated until November 1981. The transimay, 1979 and was operated until November 1981. The transition from a single plant operation to a two-plant operation
tion from a single plant operation to a two-plant operation
was coupled with the build-up in personnel could account for
was coupled with the delay in qualifying a few welders in a timely
manner.

Various inspections by both Zack Company personnel and client personnel (see attachments) have re-established the quality of the welds irrespective of the documented qualifications of the welders.

In any event, I believe that the Zack Company has proved that a serious systemic problem does not, nor did not exist. A distribution of the dates of occurrence of discrepant Travelers is attached for your information.

Please review this report and its attachments to determine if a 50.55.E Report is required on your part.

Any and all questions concerning this matter should be directed to the Zack Company Quality Assurance Department.

NO	NO's.	DATE	DATE	DATE	0.x.	1	OMMENTS.	. Po 20
10482	39,	12/3/79	1/10/80	OK	YES			- fg 20
710429	12	12/3/79	1/10/80	ОК	YES			
F10428	21	12/3/79	1/10/80	OK	YES			
F10285	6	12/3/79	1/10/80	ОК	YES		à	
F10269	23	12/3/79	1/10/80	OK	YES		-	
F10286	5	12/3/79	1/10/80	ОК	YES			
F10132	21	12/3/79	1/10/80	OK	YES			
F10268	34,30	12/3/79	1/10/80	30, 1/22/80	NO /			
F10264	26	12/3/79	1/10/80	OK	YES			
F10265	34	12/3/79	1/10/80	OK	YES			
F10261	48	12/3/79	1/10/80	ОК	YES	17-15		
F10130	48	12/3/79	1/10/80	OK	YES			
F10128	5,6	12/3/79	1/10/80	ОК	YES X			
F10125	34,6	12/3/79	1/10/80	OK	YES X			
F10124	21	12/3/79	1/10/80	OK	YES			
P1203	34 .	9/18/79	1/9/80	OK	YES			
21201	34,54	9/18/79	1/9/803	54 1/22/80	NO.			
1185	26	10/2/79	1/9/80	OK	YES			
8766	34	10/15/79	1/9/80	OK	YES.			
6456	48,54	8/10/79	1/9/80	54 1/22/80	NO /			
8767 34	4,26 or 52	10/15/79	1/9/80	52 3/15/80	NO ? -			
8768 2	26	10/15/79	1/9/80	OK .	YES	* * * * * * * * * * * * * * * * * * * *		
8769 2	26	10/15/79	1/9/80	OK	YES	****		
8798 39	,26 or 52	10/15/79	1/9/80	52 3/15/80	NO ?			
8797 1	12	10/15/79	1/9/80	OK	YES			
3799 3	19	10/15/79	1/9/80	OK	YES .		- 	
8860 3	19	10/10/79	1/9/80	OK	YES		*	
8816 3	4,54	10/10/79	1/9/80	54 1/22/80	NO /			MIDLAND
		10/10/79	1/9/80	OK	YES			YES -23
809 5		10/10/79	1/9/80	OK	YES			YES X - 2
1			1/0/00		123			CLASS I

NO		DATE	DATE	DATE	0.K.		NTS . Pa 21
.3611	23,12	3/81	4/28/81	OK OK	YES		3 2
P3608	21,12,34	3/81	4/28.81	ОК	YES		
P3606	23,21,63	3/81	4/28/81	OK .	YES		
P3605	20,63,21	3/81	4/27/81	ОК	YES		
P3604	12,23	3/81	4/29/81	ОК	YES		
P3601	34,12	3/81	4/27/81	OK	YES		
F12055	12	3/81	4/21/81	OK .	YES		
F2853	63,20	1/81	2/19/81	ОК	YES		
F2523	21,20	1/81	4/21/81	OK	YES		
F2226	21,23	4/81	4/21/81	OK	YES		
F2225	21,34	4/81	4/21/81	ОК	YES		
F2222	21,23	4/81	4/12/81	OK	YES	-	
F2082	12,21,63	3/81	4/17/81	OK	YES		
2050	12,21	4/81	4/21/81	OK	YES		
2049	12,23	4/81	4/21/81	OK	YES		
2048	21,12,34	4/81	4/21/81	OK	YES		
2047	63,21,12	4/81	4/17/81	OK .	YES		
2033	23,34	3/81	4/17/81	OK .	YES		
2030	34,63	3/81	4/17/81	OK	YES		
2029	34,12	3/81	4/17/81	OK .	YES		
10487	48	12/3/79	1/10/80	OK .	YES		
10488	5	12/3/79	1/10/80	OK	YES	70.00	
10484	6,54	12/3/79	1/10/80	54 - 1/22/80	NO /		
10494	48	12/3/79	1/10/80	OK	YES		
10493	5	12/3/79	1/10/80	OK	YES	1	
10491	5	12/3/79	1/10/80	OK .	YES		
10489	34,26 or 52	12/3/79	1/10/80	52 3/15/80	NO?		
10490	6	12/3/79	1/10/80	OK	YES		MIDLAND
0497	48 ' '	12/3/79	1/10/80	OK :			YES -2
0480	39	12/3/79	1/10/80	OK .	YES		YES X - 0
0481		12/3/79	1/10/80	OK	YES		CLASS I

NO	NO's.	DATE	DATE	DATE	0.K.	CONTENTS Pa 22
F2224	21,63,5	4/81	4/21/81	OK :	YES X	
F2116	23,21	4/81	5/7/81	ОК	YES	
P3041	34,23	12/80	5/14/81	ОК	YES	I CARTELIAN DE
P3035	23,12,21,20	12/80	5/8/81	ОК	YES X	•
P3040	34,63,23	12/80	5/1/81	OK	YES	
P3038	23,34,12	12/80	5/1/81	ОК	YES	
P3037	21	12/80	5/5/81	OK	YES	
P3033	23	12/80	5/4/81	OK	YES	
P3036	12,21,23	12/80	5/1/81	ОК	YES	· 李小 李小 · 李小 · 李小 · 李小
P3034	21,63,23	12/80	5/1/81	OK	YES X	
P3031	34,12	12/80	4/30/81	OK	YES X	
P3030	34	12/80	5/5/81	OK	YES	
P3029	34,23	12/80	5/6/81	OK	YES	
F13782	63	12/80	5/6/81	OK	YES	
F13789	34	12/80	5/5/81	OK	YES	
F13784	23	12/80	5/6/81	ОК	YES	
F13788	63	12/80	5/5/81	OK	YES	
13787	63	12/80	5/6/81	OK	YES	
F13786	21	12/80	5/4/81	OK	YES.	
F13783	63	12/80	5/1/81	OK	YES .	
13781	63	12/80	5/5/81	OK	YES	
F13763	63	12/80	5/1/81	OK .	YES	
F13762	12	12/80	5/6/81	OK	YES	
3032	12,23,34,12	12/80	5/8/81	OK	YES	
13761	12	12/80	5/4/81	OK	YES .	
13760	63	12/80	5/5/81	OK	YES	
3609	12,21	3/30/81	5/4/81	OK .	YES	
3610	34,63	3/30/81	5/4/81	OK ;	YES	MIDLAND
3614	21 , .	4/81	4/21/11	OK ,	YES	YES - YES X -
3613	21,63	4/81	4/21/81	OK	YES	NO -
3612	34.63	4/81	4/29/81	OK	YES	CLASS I

NO.	No's.	DATE	DATE	DATE	0.K.	COMENTS Pg 23
F10048	48,26	11/16/79	1/15/80	OK	YES	
F10050	5	11/16/79	1/15/80	30, 1/22/80	NO /	
F10057	5,26	11/19/79	1/15/80	ОК	YES	
F10058	5	11/19/79	1/15/80	ОК	YES	
F10059	12	11/19/79	1/15/80	ОК	YES	
F10063	34	11/19/79	1/15/80	OK	YES	[1] [1] [1] [1] [1] [1] [1] [1] [1] [1]
F10068	12	11/19/79	1/15/80	OK	YES	
F10008	23,26	11/15/79	1/15/80	OK	YES X	
F8861	48	10/10/79	1/15/80	OK	YES	
F8859	12	10/10/79	1/15/80	OK	YES	
F8812	34	10/10/79	1/15/80	OK	YES	
F10427	34	12/10/79	1/10/80	OK	YES	
F10486	48	12/3/79	1/10/80	OK	YES	
P1638	48	1/9/80	1/9/80	OK	YES	
P1490	34	12/10/79	1/9/80	OK	YES	
F10485	6,54	12/3/79	1/10/80	54, 1/22/80	NO /	
P1493	34 .	12/10/79	1/9/80	OK	YES	
F13299	26,12,5	10/80	10/28/80	OK	YES X	
F13297	12,34	10/80	10/28/80	OK.	YES.	
F13298	12,5	10/80	10/28/80	OK	YES	
F13296	12,34,21	10/80	10/27/80	OK	YES X	
F12495	12,54	10/80	10/28/80	OK .	YES	
F12492	12,23	10/80	10/28/80	OK	YES .	**** *** *** ***
F12490	12,26	2/80	.10/28/80	OK	YES	
F12481	26,54,12	2/80	10/28/80	OK	YES X	
F12468	26,23,12	2/80	10/30/80	OK.	YES X	
F1.2467	26,12	2/80.	10/30/80	OK	YES X	
P3330	26,54	2/80	10/28/80	OK .	YES	MIDLAND
P3327	54,63,12,26	2/80	10/28/80	OK	YES	YES - 22 YES X - 7
P3779	23,54	3/81	5/7/81	OK	YES	NO -2
F2224	21,63,5	4/81	4/21/81	OK	YES X	CLASS I PLANT 2

NO	NO's.	DATE	DATE	DATE	0.K.	O345EVI	S P4 24
F13303	12,54	10/80	10/28/80	ОК	YES		-
F10131	21	11/26/79	1/15/80	OK .	YES		
F10129	6,12	11/26/79	1/16/80	ок	YES X		
F10126	6	11/26/79	1/16/80	OK	YES		
F10127	34	11/26/79	1/16/80	ОК	YES		
F10049	26	11/7/79	1/14/80 .	ОК	YES		
F10051	34	11/16/79	1/15/80	OK	YES		
F10066	26,30	11/19/79	1/14/80	30, 1/22/80	NO /		
F10053	21	11/16/79	1/14/80	ОК	YES	***	
F10067	21	11/19/79	1/14/80	OK	YES		
F10071	39	11/19/79	1/14/80	OK	YES		
F10013	12	11/15/79	1/14/80	OK	YES		
F8863	5	10/10/79	1/14/80	OK	YES		
F8733	21	10/2/79	1/15/80	OK	YES		
F8732	21	10/2/79	1/15/80	OK .	YES		
F8802	34	10/15/79	1/15/80	OK	YES		
F8735	21	10/2/79	1/15/80	OK	YES		
P1513	21,6,12	11/16/79	1/15/80	OK	YES X		
P1522	23,48	11/15/79	1/15/80	OK	YES X	7	
P1514	21,30	11/16/79	1/15/80	30, 1/27/80	NO /		
P1512	34	11/19/79	1/15/80	ОК	YES		
P1523	26,48,DL	11/15/79	1/15/80	DL?	NO? ×		
P1511	34,54,5	11/19/79	1/15/80	54, 1/22/80	NO /		
P1510	39 WI GS	11/19/79	1/15/80	WI, GS	NO?		
P1509	12	11/19/79	1/15/80.	OK	YES		
P1113	21	8/10/79	1/15/80	., ок	YES		
P10262	34,54	12/10/79	1/15/80	54, 1/22/80	NO /		
F10266	26	12/10/79	1/15/80	OK	YES		MIDLAND
F10260	34 /	12/10/79	1/15/80	OK :	YES		YES - 31 YES X - 4
F10009	34,26	11/15/79	1/15/80	OK	YES X		NO -6
1	••		1/15/00		vee		CLASS I PLANT 2

NO's.	DATE	DATE	DATE.	0.K.	1	COMMENTS	. P. 2=
1,12,23	2/80	12/17/80	ок	YES			Pg 25
2	2/80	12/17/80	OK	YES			
3	2/80	10/31/80	ОК	YES			
	2/80	1/6/81	OK	YES		- 1	
,5	12/80	1/6/81	ок	YES			
,12,21	12/80	1/6/81	ОК	YES X			
	11/80	16/81	OK	YES			
,26	11/80	1/6/81	OK .	YES			ALC: NO
,5	11/80	1/6/81	OK	YES	-		
,26	11/80	1/6/81	OK	YES			
	11/80	1/6/81	OK	YES			
, 26	11/80	1/6/81	OK	YES			
	11/80	12/17/80	OK	YES			
23	11/80	12/2/80	ОК	YES			
21	11/80	12/31/80	OK	YES			
	11/80	12/17/80	OK	YES			
5	11/80	12/17/80	OK	YES			
6,34	11/80	12/3/80	CK.	YES			
5	11/80	12/17/80	OK	YES			
5,34	11/80	12/2/80	OK	YES			
26 .	11/80	12/2/80	OK	YES			
34,54	11/80	.12/2/80	OK ·	YES	442 6 3		
3,63,26	11/80	12/2/80	OK	YES			
,26	11/80	.12/2/80	ок	YES			
2,26	11/80	12/2/80	OK .	YES			
3,34,2	11/80	12/2/80	OK.	YES		1	
	11/80	12/17/80	ок	YES			
	2/80	10/27/80	OK	YES			MIDLAND
	2/80	11/21/80	N/A	N/A			YES -29
	11/80	12/17/80		YES			YES X - 1
		2/80	2/80 10/27/80 2/80 11/21/80 11/80 12/17/80	2/80 10/27/80 OK 2/80 11/21/80 N/A 11/80 12/17/80 OK	2/80 10/27/80 OK YES 2/80 11/21/80 N/A N/A 11/80 12/17/80 OK YES	2/80 10/27/80 OK YES 2/80 11/21/80 N/A N/A 11/80 12/17/80 OK YES	2/80 10/27/80 OK YES 2/80 11/21/80 N/A N/A 11/80 12/17/80 OK YES

NO. "	No's.	DATE	DATE	DATE	0.K.	COMENTS PG 26
F13498	34,54	11/80	12/2/80	ОК	YES	1300
F13488	34	11/80	12/2/80	ок	YES	
F13485	34,5	11/80	12/2/80	ОК	YES	
F13487	12	11/80	12/1/80	OK	YES	
F13486	12,34	11/80	12/2/80	OK	YES	b
F13484	26,23	11/80	12/2/80	OK ·	YES	·
F13483	26,54	11/80	12/2/80	OK	YES	NAME OF THE PARTY
F13482	26,63	11/80	12/2/80	OK	YES	
F13480	26,34,12	11/80	12/2/80	OK	YES	
F13304	21,12	10/80	12/15/80	OK	YES	
F13301	26,63	10/80	10/25/80	OK	YES	
F13239	12,34	10/80	12/1/80	QK	YES	
F13238	12,34	10/80	12/1/80	OK	YES	
F13100	12,21	10/80	12/1/80	OK	YES	
F12500	21,26	2/80	10/27/80	OK	YES	
F12491	21,12	2/80	12/15/80	OK	YES	
F12479	21,34	2/80	12/2/80	OK	YES	
F12476	21,63	2/80	12/2/80	OK	YES	
F12472	21,34	2/80	12/2/80	OK	YES	
F12469	34	2/80	12/13/80	OK	YES	
F12466	54,26,21	2/80	10/27/80	OK	YES	
F12454	5	2/80	1/5/81	OK .	YES	
12453	5	2/80	1/5/81	OK	YES	
12260	21,12	2/80	12/17/80	OK	YES	
12265	21	2/80	12/17/80	OK	YES	
12262	21,12	2/80	12/17/80	OK	YES	
12261	21,26	2/80	12/17/80	OK	YES	•
12263	21,12,26	2/80	12/17/80	OK	YES	MIDLAND
12258	21,12,26	2/80	12/17/80	OK	YES	YES -3
12259	21,12	2/80	12/17/80	OK	YES	YES X - 6
12257	21.26	2/80	12/17/80	CUK	YES	CLASS I

DATE	DATE	O.K.	COMENTS	Pg 27
3/19/80	OK	YES		-
30 3/14/80	OK	YES		
30 3/14/80	66?	NO?	THE RESERVE	
3/14/80	OK	YES	018/26	
3/14/80	OK	YES		
0 3/14/80	OK	YES	THE RESERVE THE RE	
0 4/10/80	ОК	YES		
0 3/13/80	OK ·	YES		
0 3/13/80	ок	YES		
0 4/10/80	OK	YES		
0 3/14/80	64 3/25/80	NO /		
0 3/14/80	ОК	YES		
0 4/10/80	ОК	YES		
3/14/80	OK	YES		
3/14/80	OK	YES	6 2 1 1 1 1 1	
3/14/80	OK	YES	BUT STATE	
3/14/80	OK	YES X		
3/14/80	CK	YES		
3/11/80	58?	NO?		
3/13/80	OK .	YES		
3/11/80	58?	NO?		
3/11/80	OK	YES		
3/3/81	OK .	YES	qui ex exa e	
3/9/81	OK	YES		
3/4/81.	OK	YES .	111	
12/17/80	OK	YES		
12/17/80		YES	A Company of the Company	
12/5/80	OK	YES	"YELLOW OUT" USED	MIDLAND
12/5/80	OK	YES		YES - 26 YES X - 1
12/2/80	OK	YES	Residence in the second	NO - 4 CLASS I
+		12/2/80 OK	12/5/80 OK YES 12/2/80 OK YES	12/5/80 OK YES

NO's.	DATE	DATE	DATE	O.K.	COMMENTS	Pa 28
26	12/3/79	2/18/80	OK	YES		,
21	12/19/79	2/18/80	OK	YES		
12	12/20/79	2/18/80	ОК	YES		
34	12/19/79	2/18/80	OK	YES		
21	2/18/80	2/18/80	OK	YES		
12	12/19/79	2/18/80	OK	YES		
26	12/19/79	2/18/80	OK	YES		
34	12/19/79	2/18/80	OK	YES		
34	12/19/79	2/18/80	OK	YES		
39	12/19/79	2/18/80	OK	YES		
6,48	12/3/79	1/14/80	OK	YES X		
26	9/4/79	3/11/80	26 3/25/80	NO /		
26	9/4/79	3/11/80	26 3/25/80	NO /	TANK MEMBER	
58	9/4/79	3/11/80	58?	NO?		
23	11/15/79	8/15/80	ОК	YES		
6	11/15/79	8/15/80	OK	YES		
58	9/4/79	3/11/80	58?	NO? /		
39	11/15/79	8/15/80	OK	YES		
39	11/15/79	8/15/80	OK .	YES		
6	11/15/79	8/15/80	OK	YES		
12	11/15/79	8/15/80	OK	YES	7 4 7 TO TO	
5,39	11/15/79	8/15/80	OK.	YES X	* * * * * * * * * * * * * * * * * * * *	
30	11/15/79	8/15/80	OK	YES	***	
48 ,	11/15/79	8/15/80	OK	YES		
	11/19/79	8/15/80	OK	YES		
39	11/19/79	8/15/80	OK	YES		
39	11/19/79	8/15/80		YES		
6	11/19/79	8/15/80	OK .	YES		MIDLAND
48'	11/19/79	8/15/80	OK	YES	* · · · · · · · · · · · · · · · · · · ·	YES X - 3
34	11/19/79	8/15/80	OK	YES		NO - 4
	21 12 34 21 12 26 34 34 39 6,48 26 26 58 23 6 58 23 6 58 39 39 6 12 5,39 30 48 11 12 2 39 39 6 48 48 48	21 12/19/79 12 12/20/79 34 12/19/79 21 2/18/80 12 12/19/79 26 12/19/79 34 12/19/79 39 12/19/79 6,48 12/3/79 26 9/4/79 26 9/4/79 28 9/4/79 29 11/15/79 40 11/15/79 58 9/4/79 39 11/15/79 39 11/15/79 48 11/15/79 48 11/15/79 39 11/15/79 48 11/15/79 39 11/19/79 48 11/19/79 48 11/19/79 48 11/19/79 48 11/19/79 48 11/19/79	21 12/19/79 2/18/80 12 12/20/79 2/18/80 34 12/19/79 2/18/80 21 2/18/80 2/18/80 12 12/19/79 2/18/80 26 12/19/79 2/18/80 34 12/19/79 2/18/80 39 12/19/79 2/18/80 39 12/19/79 2/18/80 6,48 12/3/79 1/14/80 26 9/4/79 3/11/80 26 9/4/79 3/11/80 28 9/4/79 3/11/80 29 3/11/5/79 8/15/80 48 11/15/79 8/15/80 39 11/15/79 8/15/80 39 11/15/79 8/15/80 12 11/15/79 8/15/80 30 11/15/79 8/15/80 30 11/15/79 8/15/80 30 11/15/79 8/15/80 31 11/15/79 8/15/80 39 11/19/79 8/15/80 39 11/19/79 8/15/80 39 </td <td>21 12/19/79 2/18/80 OK 12 12/20/79 2/18/80 OK 34 12/19/79 2/18/80 OK 21 2/18/80 2/18/80 OK 21 12/19/79 2/18/80 OK 26 12/19/79 2/18/80 OK 34 12/19/79 2/18/80 OK 34 12/19/79 2/18/80 OK 34 12/19/79 2/18/80 OK 39 12/19/79 2/18/80 OK 39 12/19/79 1/14/80 OK 26 9/4/79 3/11/80 26 3/25/80 26 9/4/79 3/11/80 26 3/25/80 26 9/4/79 3/11/80 26 3/25/80 26 9/4/79 3/11/80 58? 23 11/15/79 8/15/80 OK 6 11/15/79 8/15/80 OK 58 9/4/79 3/11/80 58? 39 11/15/79 8/15/80 OK 6 11/15/79 8/15/80 OK 58 9/4/79 3/11/80 58? 39 11/15/79 8/15/80 OK 58 11/15/79 8/15/80 OK 58 9/4/79 3/11/80 OK 39 11/15/79 8/15/80 OK 12 11/15/79 8/15/80 OK 12 11/15/79 8/15/80 OK 5,39 11/15/79 8/15/80 OK 6 11/19/79 8/15/80 OK 6 11/19/79 8/15/80 OK</td> <td>21 12/19/79 2/18/80 OK YES 12 12/20/79 2/18/80 OK YES 34 12/19/79 2/18/80 OK YES 21 2/18/80 2/18/80 OK YES 12 12/19/79 2/18/80 OK YES 26 12/19/79 2/18/80 OK YES 34 12/19/79 2/18/80 OK YES 34 12/19/79 2/18/80 OK YES 39 12/19/79 2/18/80 OK YES 6,48 12/3/79 1/14/80 OK YES 26 9/4/79 3/11/80 26 3/25/80 NO / 26 9/4/79 3/11/80 26 3/25/80 NO / 58 9/4/79 3/11/80 587 NO? / 23 11/15/79 8/15/80 OK YES 58 9/4/79 3/11/80 587 NO? / 58 9/4/79 3/11/80 587 NO? / <t< td=""><td>21</td></t<></td>	21 12/19/79 2/18/80 OK 12 12/20/79 2/18/80 OK 34 12/19/79 2/18/80 OK 21 2/18/80 2/18/80 OK 21 12/19/79 2/18/80 OK 26 12/19/79 2/18/80 OK 34 12/19/79 2/18/80 OK 34 12/19/79 2/18/80 OK 34 12/19/79 2/18/80 OK 39 12/19/79 2/18/80 OK 39 12/19/79 1/14/80 OK 26 9/4/79 3/11/80 26 3/25/80 26 9/4/79 3/11/80 26 3/25/80 26 9/4/79 3/11/80 26 3/25/80 26 9/4/79 3/11/80 58? 23 11/15/79 8/15/80 OK 6 11/15/79 8/15/80 OK 58 9/4/79 3/11/80 58? 39 11/15/79 8/15/80 OK 6 11/15/79 8/15/80 OK 58 9/4/79 3/11/80 58? 39 11/15/79 8/15/80 OK 58 11/15/79 8/15/80 OK 58 9/4/79 3/11/80 OK 39 11/15/79 8/15/80 OK 12 11/15/79 8/15/80 OK 12 11/15/79 8/15/80 OK 5,39 11/15/79 8/15/80 OK 6 11/19/79 8/15/80 OK 6 11/19/79 8/15/80 OK	21 12/19/79 2/18/80 OK YES 12 12/20/79 2/18/80 OK YES 34 12/19/79 2/18/80 OK YES 21 2/18/80 2/18/80 OK YES 12 12/19/79 2/18/80 OK YES 26 12/19/79 2/18/80 OK YES 34 12/19/79 2/18/80 OK YES 34 12/19/79 2/18/80 OK YES 39 12/19/79 2/18/80 OK YES 6,48 12/3/79 1/14/80 OK YES 26 9/4/79 3/11/80 26 3/25/80 NO / 26 9/4/79 3/11/80 26 3/25/80 NO / 58 9/4/79 3/11/80 587 NO? / 23 11/15/79 8/15/80 OK YES 58 9/4/79 3/11/80 587 NO? / 58 9/4/79 3/11/80 587 NO? / <t< td=""><td>21</td></t<>	21

NO	NO's.	DATE	DATE	DATE	0.K.	COMENTS .	Pg29
r5627	21,12	5/8/79	8/6/79	ок	YES X		•
F5626	21	4/17/79	8/6/79	ок	YES		
F5625	34,21	4/18/79	8/6/79	OK	YES X		
F5623	34	4/26/79	8/7/79	OK	YES		
F5624	34,21	4/26/79	8/6/79	OK	YES X		
F5052	12,21	6/24/7.9	8/6/79	OK	YES X		
F5628	21,34	4/17/79	8/7/79	OK	YES X	-	
F5629	12	5/8/79	8/6/79	ОК	YES		
P2756	21,39,12	6/9/79	7/26/79	39 10/29/79	NO /	***	
F04407	12	3/5/79	6/5/79	ок	YES		
F04410	12	3/5/79	6/5/79	OK	YES		
F7405	12	2/12/79	6/5/79	OK	YES		
F04412	20,39	3/5/79	6/5/79	39 10/29/79	NO /		
F04411	20,39	3/5/79	6/5/79	39 10/29/79	NO /		
F04409	12	3/5/79	6/5/79	OK	YES		
F04408	20,39	3/5/79	6/5/79	39 10/29/79	NO /		
F04406	12	3/5/79	6/5/79	OK	YES		
F4405	12	3/5/79	6/5/79	OK	YES		
F4404	20,39	3/5/79	6/5/79	39 10/29/79	NO · /		
F4277	21	3/5/79	6/5/79	OK	YES		
F11103	26	9/5/79	3/11/80	OK	YES		
F11102	58	9/5/79	3/11/80	58? .	NO? /	4814 (\$ - 4 - 11 - 11 - 11 - 11 - 11 - 11 - 11	
F9127	12	11/30/79	3/7/80	OK .	YES	**************************************	
F10470	21	11/27/79	2/18/80	OK	YES		
F10477	12	12/3/79	2/18/80	OK	YES		
F10476	12	12/3/79	2/18/80	OK .	YES		
F10475	5	12/3/79	2/18/80	OK	YES		
F10472	23	12/3/79	2/18/80	OK .	YES		MIDLAND
F10350	34 '		2/18/80	OK :	YES		YES X - S
F10478	26	12/3/79	2/18/80	OK	YES		NO6
P10469	39	12/3/79	2/18/80		YES		CLASS I PLANT 2

NO	No's.	DATE	DATE	DATE	0.K.	COMENTS	Pa 20
F12136	12,21	2/80	2/10/81	OK	YES		
F12144	12,21	2/80	2/10/81	OK	YES		
F12142	12	2/80	2/10/81	OK	YES		
F12140	12	2/80	2/10/81	OK	YES	1	
F12138	12,21	2/80	2/10/81	OK '	YES	1	
F12130	12,21	2/80	2/10/81	OK	YES		
F13132	12	2/80	2/10/81	OK	YES	2 1965	
F12138	12,26	2/80	2/10/81	OK	YES	****	
F12126	21	2/80	2/10/81	OK	YES		
P3325	54,26,12	2/80	10/28/80	OK	YES	3-3-3	
P2971	34,21,26	11/80	12/3/80	24?	NO Z	WHO IS 24?	
P2922	12,5,63,21	10/80	10/28/80	OK	YES		
F13694	26,5	12/80	1/5/81	OK	YES		
F13634	21,63	11/80	12/15/80	OK	YES		
F13633	21.63	11/80	12/15/80	OK	YES		
F13616	21,54	11/80	12/15/80	OK	YES		
F13615	12,54	11/80	12/15/80	OK	YES		
F13614	12.63	11/80	12/15/80	OK	YES		
F13613	12,5	11/80	12/15/80	OK .	YES		
F13612	12,34	11/80	12/15/80	OK	YES		
F13605	26,54,21	11/80	1/6/81	OK .	YES		
F13611	12,21,34	11/80	12/15/80	OK .	YES	**** * *	
F13610	23,5	11/80	1/6/81	OK	YES	90 41 61 1	
F13609	26,54	11/80	1/6/81	OK	YES		
F13604	23,54	11/80	1/6/81.	OK	YES		
F13481	26,21,	11/80		OK	YES	H. H. T.	7
F13603	26,12	11/80	1/6/81	OK	YES		
F13577	26,12	11/80	1/6/81	OK :	YES X		MIDLAND
F13575	54 .	11/80	12/17/80	OK .	YES	W. J	YES -29
F13576	5,54	11/80	12/17/80	OK	YES		YES X - 3
P5630	12.34	4/17/79	8/6/79	OK	YES X		CLASS I

NO.	NO's.	DATE	DATE	DATE	O.K.	COMMENTS .	Pg 31
P3416	26,5	1/16/81	2/11/81	9/19/80	YES		1931
P3415	26	1/15/81	2/11/81	9/19/80	YES		
F2521	63,5	1/7/81	2/9/81	9/19/80	YES		
P503	12,48	10/79	11/8/79	ОК	YES	At 100 100 14	
P502	12,48	10/79	11/8/79	OK	YES	<u>*</u>	
P1229	34	8/79	10/11/79	OK	YES	00 00 00	-
F5405	34	5/79	11/5/79	ОК	YES	esc sinc or	
F9252	21	8/79	11/5/79	OK	YES	***	
F9260	34,6	8/79	11/2/79	6	NO /	6 NOT QUALIFIED TO PS	ocs
F9380	34	9/79	11/2/79	OK	YES	e eg ser p	2019/03/2
F9381	12	9/79	11/1/79	ox	YES	CAN PRODUCE PRO	
P1305	21,6	9/79	10/29/79	6	NO /	6 NOT QUALIFIED TO P9	cs
P1308	12,48	9/79	10/30/79	48	. NO /	48 QUALIFIED TO POCS	4/3/80
1350	34,5,21	9/79	10/30/79	OK	YES X	P5CS	
r8430	34	8/79	10/24/79	ОК	YES		
711170	21	8/79	10/24/79	OK	YES		
711171	21,26	8/79	10/24/79	26	NO /	26 QUALIFIED PSCS 10/	29/79
21176	21,6	8/79	10/24/79	6	NO /	6 QUALIFIED PSCS 10/2	9/79
11180	12	8/79	10/24/79	OK	YES	720000000000000000000000000000000000000	
11179	34,39	8/79	10/24/79	OK	YES X	7 1 1905 14 2	
11181	21	8/79	10/24/79	OK	YES		
11182	34,39	8/79	10/24/79	OK	YES. X	11111	
11192	12	8/79	10/22/79	OK	YES .	*** ** **	
11199	21	8/79	10/22/79	OK.	YES	- W W- W	
11205	34,26	8/79	10/24/7.9	26	NO /	26 QUALIFIED PSCS 10	/29/79
11208	34	8/79	10/22/79	, ок	YES	Maria de la Companya	
11209	12,39	8/79	10/22/79	39	NO /	39 QUALIFIED PSCS	
2776	54	1/81	2/19/81	OK	YES		MIDLAND
13716	21,63,5	12/80	1/23/81	OK	YES X		YES X - 4
3397	63	12/80	2/9/81	OK	YES	The second	NO - 7
3396	63	12/80	2/9/81	ок	YES		CLASS I

NO.	NO's.	DATE	DATE	DATE	O.K.	COMENTS	Pg 32
P3829	63	7/10/81	8/12/81	OK WPS-1	YES		13.00
P3828	63	7/10/81	8/11/81	OK WPS-1	YES		
P3791	63	7/1/81	8/11/81	OK WPS-1	YES	PROS. A-20 ACC	Tar and
P3790	63	7/1/81	8/11/81	OK WPS-1	YES	19 00 1 M	
P670	63	6/17/81	8/10/81	OK WPS-1	YES	W	
P669	9	6/17/81	8/10/81	OK WPS-1	YES X	9 NOT IDENTIFIABLE	
P668	9	6/17/81	8/10/81	OK WPS-1	YES X	9 NOT IDENTIFIABLE	
P648	63	6/10/81	8/10/81	OK WPS-1	YES		
P596	63	6/5/81	8/11/81	OK WPS-1	YES		
P593	63	6/10/81	8/10/81	OK WPS-I	YES	. 60 047	
F13747	34	12/10/80	5/29/81	OK WPS-1	YES		
F13739	23	12/10/80	5/28/81	OK WPS-1	YES		
F13738	12	12/10/82	5/29/81	OK WPS-1	YES		
F13737	63	12/10/80	5/28/81	OK WPS-1	YES		
F13736	34	12/10/80	5/28/81	OK WPS-1	YES		
F17066	21	8/26/31	9/22/81	OK WPS-1	YES	" and the second	
F17073	'34	8/26/81	9/14/81	OK WPS-1	YES		
F17074	54	8/26/81	9/25/81	OK WPS-1	YES		
P17075	21	8/26/81	9/24/81	OK WPS-1	YES	-x	
F17076	21	8/26/81	9/24/81	OK WPS-1	YES		
F17123	52,21	8/31/81	9/21/81	OK WPS-1	YES		
717124	21,52	8/31/81	9/21/81	OK WPS-1	YES	THE VIEW OF THE PARTY OF THE PA	
17125	52,21	8/1/81	9/21/81	OK WPS-1	YES	000 360 × × × × × × × × × × × × × × × × × × ×	
17402	21,63	8/13/81	9/4/81	OK WPS-1	YES		
17424	21,63	8/14/81	9/4/81	OK WPS-1	YES		
17067	34	8/26/81	9/16/81	OK WPS-1	YES		
17,425	63	8/17/81	9/29/81	OK WPS-1	YES		
17071	63	8/26/81	9/15/81	OK WPS-1	YES		MIDLAND
17070	9 '	8/26/81	9/15/81	OK WPS-1	YES X	9 NOT IDENTIFIABLE	YES - JT
17437	9	8/17/81	9/29/81	OK WPS-1	YES X	9 NOT IDENTIFIABLE	YES X - 4
17430	63	8/17/81	9/29/81	OK WPS-1	YES		CLASS I PLANT 2

NO.	No's.	DATE	DATE	DATE	O.K.	COMMENTS	Pg 33
F17440	54	8/17/81	9/29/81	OK WP3-1	YES		3
F17443	54	8/17/81	9/29/81	OK WPS-1	YES		
P548	52,9	8/31/81	9/21/81	OK WPS-1	YES X	9 NOT IDENTIFIABLE	
P667	63	6/17/81	8/10/81	OK WPS-1	YES	**************************************	
P3946	21	8/11/81	9/4/81	OK WPS-1	YES		
F17453	9	8/17/81	9/29/81	OK WPS-1	YES X	9 NOT IDENTIFIABLE	1 THE 18
F17442	9	8/17/81	9/29/81	OK WPS-1	YES X	9 NOT IDENTIFIABLE	
F17441	63	8/17/81	9/29/81	OK WPS-1	YES		
F15505	34	6/25/81	8/7/81	OK WPS-1	YES		
F15556	34	7/1/81	8/12/81	OK WPS 1	YES	AT 49.00 BANK	
F15557	34	7/1/81	8/12/81	OK WPS-1	YES	* * * · ·	
P3451	5,34	1/24/81	2/19/81	OK WPS-1	YES		
P3775	21	4/1/81	4/21/81	WPS-1 WPS-2	YES	WELDING PROCEDURE NO CIRCLED ON TRAVELER	OT
P2834	6	8/27/79	12/7/79	OK P5CS	YES	CINCIDS ON INVESTOR	
F2143	34	4/17/81	5/29/81	OK WPS-1	YES		
F17115	9	9/1/81	10/8/81	WPS-1 WPS-2	YES ?	2 - #9's, UNABLE TO WHICH ONE	DISTINQUISH
P3448	34,21	1/24/81	2/19/81	OK WPS-1	YES	MILCH UNE	
P3447	54	1/24/81	2/19/81	OK WPS-1	YES		
F17116	63	9/1/81	10/12/81	OK WPS-1	YES		
F13732	12	12/10/80	5/27/81	OK WPS-1	YES	1 40 W 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
F13731	5	12/10/80	5/27/81	OK WPS-1	YES		
F13730	12	12/10/80	5/26/81	OK WPS-1	YES	****	
2221	21,12	4/1/81	5/6/81	OK WPS-1	YES .	100 100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
2053	23,21	3/26/81	5/7/81	OK WPS-1	YES	- 6 - 10 - 10 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
1937	23	3/13/81	5/7/81	OK WPS-1	YES		
3774	23	3/27/81	5/7/81	OK WPS-1	YES	-	
1181	12,20	9/22/79	1/9/81	OK WPS-1	YES X	OUT ON COPY GP	
1668	34 '	12/21/79	12/24/80	OK WPS-1	YES		MIDLAND
1186	34	9/14/79	12/23/80	OK WPS-1	YES		YES X -
1664	34	12/20/79	12/24/80	OK WPS-1	YES		NO -
1653	34	12/18/79	12/23/80	OK WPS-1	YES .		CLASS I PLANT 2

NO.	NO's.	DATE	DATE	DATE	O.K.	COMENTS Po 34	
F8726	12,63,34	9/13/79	12/17/80	9/19/80 8/27/80	YES X	VANE WELDER 34 NOT TRANSFERRED	
F8570	34	8/30/79	2/9/81	4/22/76	YES		
F8572	20,6	8/30/79	2/9/81	12/10/76	YES X	WELDER 6 ON COPY	
F02636	26,12	1/16/81	2/11/81	9/19/80 3/31/81	NO /	MPS NOT CIRCLED, WELDER 12 NOT QUALIFIED FER WPS-2, 26 QUALIFIE	
				11 (8-76 - 14.5) 1-44 1-44	· A hak ·	AFTER WORK DATE WPS-2	
F02635	26,12	1/16/81	2/11/81	9/19/80	NO /	WPS NOT CIRCLED, WELDER 12 NOT QUALIFIED FOR WPS-2, 26 QUALIFY AFTER WORK DATE W2S-2	
				1 × × × ×			
F02633	23,12	1/16/81	2/11/81	9/19/80	YES	***	
F02632	23,12	1/16/81	2/11/81	9/19/80	NO /	WPS NOT CIRCLED, ID DATE DOES NO MATCH WELDER 23, 12 NOT QUALIFIE	
			7	A MILL THAT IS A STATE		FOR WPS-2	
F02630	26,54	1/16/81	2/11/81	9/19/80 3/31/81	NO /	WPS NOT CIRCLED, WELDER 54 NOT QUALIFIED FOR WPS-2 WELDER 26 QUALIFIED AFTER WORK DATE WPS-2	
T02620	26,12	1/15/01	2 (12 (02				
F02628		1/15/81	2/11/81	9/19/80	YES ?	WELDER 26 ON COPY (VANES) ?	
F02626	26,34	1/15/81	2/11/81	8/27/80	YES		
F02624	23,54	1/15/81	2/11/81	9/19/80	YES		
F2663	26	1/17/81	2/11/81	9/19/80	YES		
F2662	26	1/16/81	2/11/81	9/19/80	YES		
F2657 ·	23	1/17/81	2/11/81	9/19/80	NO /	WPS NOT CIRCLED, WELDER 23 NOT QUALIFIED FOR WPS-2	
F2656 .	23	1/17/81	2/11/81	9/19/80	NO '	WELDER 26 ON COPY (VANE) ? WELDER NOT QUALIFIED FOR WPS-2	
P3023	21,54	12/9/80	1/23/81	9/19/80	N) -	WPS NOT CIRCLED, WELDER 21 & 54	
F13765	2 ,34 '	12/10/80	1/23/81	9/19/80	YES	NOT QUALIFIED FOR WPS-2	
F13764	21,34	12/10/80	1/23/81	9/19/80 8/27/80	NO	WPS NOT CIRCLED, WELDER 21 NOT	
F13746	21,23	12/10/80	1/23/81	9/19/80	NO /	QUALIFIED FOR WPS-2 WPS NOT CIRCLED, WELDER 21 & 23	
F13719	21,63	12/9/80	1/23/81	9/19/80	NO /	NOT QUALIFIED FOR WPS-2 WPS NOT CIRCLED, WELDER 21 / 63 NOT QUALIFIED FOR WPS-2 WPS NOT CIRCLED, VELDER NOT QUALIFIED FQR WPS-2 WPS NOT CIRCLED, VELDER 21 & 5	
F13718	21	12/9/80	1/23/81.	9/19/80	NO /		
F13717	21,5	12/9/80	1/23/81	9/19/80	No /		
P3432	23,5	1/17/81	2/11/81	9/19/80	YES	NOT QUALIFIED FOR WPS-2	
P3432	23,5	1/17/81	2/11/81	9/19/80	YES	MIDLAND	
P3418	26,5	1/16/81	2/11/81	9/19/80	YES	YES - 13 YES X - 2	
P3420	26,54	1/17/81	2/11/81	9/19/80	YES	NO - 12	
P3417	26,5	1/16/81	2/11/81	9/19/80	YES	CLASS I PLANT 2	

NO.	NO's.	DATE	DATE	DATE	O.K.	COMMENTS	P4 35
P1652	34	12/18/79	12/23/80	OK WPS-1	YES		j
P1651	34	12/18/79	12/22/80	OK WPS-1	YES	Max.	
P1297	20,21	9/13/79	1/12/81	OK WPS-1	YES	2003 - 2007 - XX	
P1224	34,20	8/30/79	1/5/81	OK WPS-1	YES ?	OUT ON COPY RM	
P1180	21,20	9/22/79	1/9/81	OK WPS-1	YES	# 1	
P1202	5	9/4/79	2/9/81	OK WPS-1	YES "	OUT ON COPY WJ	
P1188	12,21,	9/14/79	12/17/80	OK WPS-1	YES	1 MW 1	
F2359	34	12/30/80	2/10/81	8/27/80	YES		
P3402	63	12/30/80	2/10/81	9/19/80	YES	ANALY CONTRACTOR OF THE CONTRA	
P3406	34	12/30/80	2/10/81	8/27/80	NO	NO WELDER ID FOR FITT	ING
P3405	34	12/30/80	2/10/81	8/27/80	YES		
P3404	34,5	12/30/80	2/10/81	8/27/80 9/19/80	YES	,	
P3403	3454	12/30/80	2/10/81	8/27/80 ········ 9/19/80	YES	A SWARD TO STATE OF THE STATE O	
F2326	21,63	12/30/80	1/23/81	9/19/80	YES		
F2320	21,34	12/2/80	1/23/81	9/19/80 8/27/80	NO -	WPS NOT CIRCLED, WELD QUALIFIED FOR WPS-2	ER 21 NOT
F2301	34	12/3/80	2/9/81	8/27/80	NO ,	WPS NOT CIRCLED	
F13720	21,63	12/9/80	1/23/81	9/19/80	NO /	WPS NOT CIRCLED, WELD NOT QUALIFIED FOR WPS	
F2683	34	1/28/81	2/27/81	8/27/80	YES	The golden and the man	
r2682	63	1/27/81	2/27/81	8/19/80	YES		
F2681	34	1/28/81	2/27/81	8/27/80	YES		
1980	20	3/5/81	5/19/81	9/19/80	YES		
2680	63	1/27/81	2/27/81	9/19/80	YES		
18934	12	9/22/79	2/9/81	2/3/80	YES	100 * 1 10 * 1	
8933	5,20	9/22/79	1/9/81	9/19/80 10/29/79	YES	10 NEAD NO.	
8932	21	9/22/79	2/9/81	2/3/80	YES		
8931	54,20	9/22/79	1/9/81	12/10/76	YES		
8930	12	9/22/79	2/9/81	2/3/80	YES		
8929	34	9/22/79	2/9/81	4/22/76	YES		MIDLAND
8911	34,21	9/22/79	12/24/80	OK	YES	, T	YES -27
8909	21	9/22/79	2/9/81	2/3/80	YES		NO -4

NO.	NO's.	DATE	DATE	DATE	0.K.	COMENTS Po 36
F6478	34	7/16/79	2/9/81	4/22/76	YES X	DI (?) CLEANER ?
F6476	34	7/16/79	2/9/81	4/22/76	YES X	DI (?) CLEANER ?
F6477	34	7/16/79	2/9/81	4/22/76	YES X	DI (?) CLEANER ?
F6473	21	7/16/79	2/9/61	2/3/80	YES	
F6474	21	7/16/79	.2/9/81	2/3/80	YES	7 MA 4 A
F6471	20,52 (?)	7/16/79	2/9/81	12/10/76 3/15/80	YES X	GP ON COPY
F6469	20	7/16/79	2/9/81	12/10/76	YES	res van
F14851	12	6/16/81	8/7/81	9/19/80	NO /	WELDER 12 NOT QUALIFIED FOR WPS-
F14821	34	6/11/81	8/7/81	8/27/80	YES	
F14820	34	6/11/81	8/10/81	8/27/80	YES	
F14819	34	6/11/81	8/10/81	8/27/80	NO /	RM (?) ON COPY
F14817	34	6/10/81	8/11/81	8/27/80	YES	
F14588	34	6/5/81	8/10/81	8/27/80	YES	
F14587	34	6/5/81	8/10/81	8/27/80	YES	
F14586	63	6/5/81	8/12/81	9/19/80	NO /	WELDER NOT QUALIFIED FOR WPS-2
F14582	34	6/11/81	8/12/81	8/27/80	YES	
F14182	63,6	5/8/1	8/12/81	12/31/80 9/19/80 5/14/8		
F13735	5	12/10/81	5/28/81	OK WPS-1	YES	
F13734	63	12/10/80	5/27/81	OK WPS-1	YES	
F13733	23	12/10/80	5/28/81	OK WPS-1	YES	
F15555	34	7/2/81	8/12/81	OK WPS-1	YES	
F15554	34	7/2/81	8/12/81	OK WPS-1	YES	
F15504	34	6/25/81	8/12/81	OK WPS-1	YES	
F15503	34	6/25/81	8/10/81	OK WPS-1	YES	Tr. Big. 10
F15502	34	6/25/81	8/7/81.	OK WPS-1	YES	
F14864	34~	6/17/81	8/11/81	OK WPS-1	YES	
714866	34	6/17/81	8/11/81	OK WPS-1	YES	
F14865	34 '	6/17/81	8/7/81	OK WPS-1	YES	MIDIAND
F14863	63'	6/17/81	8/13/81	OK WPS-1	YES	YES -
14862	63	6/17/81	7/30/80	OK WPS-1	YES	YES X -
714101		5/8/81	R/12/R1	OK WPS-1	VEC	CLASS I

NO.	No's.	DATE	DATE	M 200 200 5	0.K.	COMENTS .	Pg 37
P3010	54,23	1/28/81		OK	YES		3,
F2794	34,5	1/26/81		OK .	YES	****	
F2779	54,26	1/24/81		OK	YES	200 1 S 20 - 20 - 5	
F2782	54,12,34	1/24/81		OK	YES	** *** *** *	
F2778	54,23	1/24/81		OK	YES		
F2777	54,26	1/23/81	1	OK	YES	144 115 895 1	
F2786	12,34	1/24/81		OK	YES X		
F2785	34,12,5	1/24/81	12.12	OK	YES X	38-1 3 34	
F2783	54,21,34	1/24/81		OK	YES	10 10 10 10 10 10 10 10 10 10 10 10 10 1	
F2781	54,21,34	1/24/81	Vii	OK	YES X	- Xei, 1941, 19	
F2780	54,21,23	1/24/81	1	OK	YES X	- X 84 /3	
F2774	34,12	1/23/81		ОК	YES		
F2768	63,26	1/23/81		The state of	NO '	26 & 63 NOT QUALIFIE	D FOR WPS-2
F2756	5,54	1/23/81	1	OK	YES .		
F2748	5,63,12	1/23/81		OK	YES X		
F2599	5,63	1/23/81		OK	YES		
F2767	26,12	1/23/81		OK	YES		
F2809	54,5	1/28/81	1.1.	OK	YES	•	
F2327	63,26	1/28/81		OK .	YES		
P3075	63,26	12/17/80	12,3220	The second way	NO /	63 & 26 NOT QUALIFIED	FOR WPS-2
F02643	23,26,12	1/17/81			NO /	12, 23 & 26 NOT QUALI	
F02638	26,21	1/16/81	V 12.77	OK	YES	WPS-2	
F02642	23,26	1/17/81	enr. is	V 22 20 12 3	NO -	26 & 23 NOT QUALIFIED	FOR WPS-2
F02641	23,5	1/17/81		* ** ** ** *** ***	NO /	23 & 5 NOT QUALIFIED	
8571	12,23	8/30/79	2/9/81 .	2/3/80	YES X	WELDER 23 ON COPY	
8569	21,20,6	8/30/79	1/12/81	10/29/79 2/3/80 12/10/7	S NO /	-	
8568	20,23	8/30/79	1/12/81	12/10/76 10/29/79	YES X	WELDER 23 ON COPY	
8567	21 ·	8/30/79	2/9/81	2/3/80	YES X		MIDLAND
6481	34	7/16/79	2/9/81	4/22/76	YES 7	DI (?) CLEANER ?	YES -17
6480	34	7/16/79	2/9/81	4/22/76	YES 7	DI (?) CLEANER ?	YES X - %
6479	39,20	7/16/79		19/78/78	YES ?	BS ON COPY	CLASS I PLANT 2

NO.	NO's.	DATE	DATE	DATE	O.K.	COMENTS	A 36
F10922	21,54	1/23/80	9/18/81	OK WPS-1	YES		3
F12332	21,54	2/18/80	9/18/81	OK WPS-1	YES	**** * * * * * * * * * * * * * * * * *	
F15879	21,34	8/11/81	9/4/81	OK WPS-1	YES	78. 1 70.4	HUN TO
F17122	52,63	8/31/81	9/21/81	OK WPS-1	YES	*	
F15891	21	8/11/81	9/4/81	OK WPS-1	YES	***	
F02639	26	1/17/81			NO	26 NOT QUALIFIED FOR W	PS-2
F02637	26,12	1/16/81		D	NO	26 & 12 NOT QUALIFIED	FOR NPS-2
F2043	34	3/27/81	Dest 1	OK	YES		*)
F1977	20	3/5/81		ОК	YES		
F2042	34	3/27/81		ОК	YES	09 - ¥6.55 - \$440 - Y	
P661	52,21	6/16/81	10.	79.63 \$-70.10.	NO /	52 & 21 NOT QUALIFIED	FOR WPS-2
P660	52,54	6/16/81		101 14100 DE DE DE DE DE	NO /	52 & 54 NOT QUALIFIED	FOR WPS-2
P659	52,23	6/16/81	THE TO	7 - 7 - 7 F - 130 A F	NO /	52 & 23 NOT QUALIFIED FOR WPS-2	
P658	52,23	6/16/81	1	0.4 A 44 A 44 A	NO /	52 & 23 NOT QUALIFIED FOR WPS-2	
P657	52,23	6/16/81		E CONTRACTOR	NO /	52 & 23 NOT QUALIFIED FOR WPS-2	
P3619	63	3/30/81	ST FAS	- xxx. (+ x . yxx x - x x . x y + 1 y , .	NO /	63 NOT QUALIFIED FOR W	PS-2
P3602	63,34	3/27/81	1. 12	to the cost of	NO /	63 NOT QULALIFED FOR W	PS-2
F2052	12,23	3/27/81	* * * * * * * * * * * * * * * * * * *	OK	YES		THE
F2032	12,23	3/30/81		636 - 536 - 1612 - 1612 1 1 7 1 1 1 6	NO C	12 & 23 NOT QUALIFIED	FOR WPS-2
F2031	5,23,12	3/30/81	17 - 1 TO 17		NO '	5, 23 & 12 NOT QUALIFIE WPS-2	ED FOR
F2223	12,23,21	4/1/81			NO /	12, 23 & 21 NOT QUALIF	ED FOR
F2023	12,63	3/31/81	x + y > y + y = 1	798 - 49 - 89 - 70 2 - 3 - 7 - 7 - 7 - 7	NO /	12 & 63 NOT QUALIFIED	FOR WPS-2
F1877	63,12	3/20/81	******	OK	YES	West Color of the	
F1925	34	3/17/81		OK	YES	108-109-119-1	
F2009	12	3/31/81		(0.9 M V 12 M 12 M	NO .	12 NOT QUALIFIED FOR W	PS-2
F2014	34,63	3/31/81		× 3	NO /	63 NOT QUALIFIED FOR W	-
F2022	12,34	3/31/81		1 br 1 br 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NO '	12 NOT QUALIFIED FOR WPS-2	
F13759	23	12/11/80	*	*	YES		MIDLAND .
P3446	26	1/24/81		OK	YES		YES - 15
P3431	21,54	1/17/81		OK	YES		NO - 14
		* /** /**			_		CLASS I

אס.	NO's.	DATE	DATE	DATE	0.K.	COMMENTS	Pq 39
F9217	34	11/6/79	12/31/80	OK WPS-1	YES		J
F9015	20	10/2/79	2/9/81	OK PSCS	YES X	OUT BS	
F8943	21	9/23/79	2/9/81	OK PSCS	YES X	OUT ID	
F8942	21	9/22/79	2/9/81	OK P5CS	YES X	OUT ID	
F8939	20	10/22/79	1/12/81	OK WPS-1	YES X	OUT TW .	
F8941	12	9/22/79	2/9/81	OX PSCS	YES	A 1988 108 109 1	
F8940	34	9/22/79	2/9/81	OK P5CS	YES		
F8938	5	9/22/79	2/9/81	OK P5CS	YES	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
F8937	21	9/22/79	2/9/81	OK P5CS	YES	**************************************	
F8936	21	9/22/79	2/9/81	OK PSCS	YES	7 - \$\$5. 2576 · · · · · · · · · · · · · · · · · · ·	
F8935	5	9/22/79	2/9/81	OK P5CS	YES		
F2312	26,5	10/20/80	1/6/81	OK WPS-1	YES	"The state of the	
P1665	23	12/20/79	10/31/80	OK WPS-1	YES		
P1663	23	12/20/79	10/31/80	OK WPS-1	YES		
F1538	34	8/27/79	2/9/81	OK P5CS	YES X	OUT GP (26)	
P3726	21,9	8/14/81	9/4/81	OK WPS-1	YES	9 NOT IDENTIFIABLE	
F11286	12	8/29/79	10/22/79	OK PSCS	YES		
F11207	21	8/29/79	10/15/79	OK P5CS	YES		
F5832	34	3/27/79	9/20/79	OK PSCS	YES		
F6467	21	7/14/79	9/21/79	OK P5CS	YES X	EJ NOT CIRCLED (COPY)	
F4460	12	3/13/79	5/23/79	OK PSCS	YES		
				e was	1010	DR NOT CIRCLED (COPY)	
F17428	21,9	8/17/81	9/4/81	QK WPS-1	YES X7	9 NOT IDENTIFIABLE	
F17429	21,63	8/14/81	9/4/81	OK WPS-1	YES	K. H. H. H. L.	
F17431	21	8/17/81	9/4/81 .	OK WPS-1	YES		
F17430	21,34	8/14/81	9/4/81	OK WPS-1	YES	-	-
F17427	21	8/14/81	9/4/81	OK WPS-1	YES	-	
F17426	21 '		9/4/81	OK WPS-1	YES		MIDLAND
F17425	21		9/4/81	OK WPS-1	YES	* * * * * * * * * * * * * * * * * * *	YES -
F10732	21,9		9/18/81		YES X7	9 NOT IDENTIFIABLE	YES X -
F10849	21,54	1/21/80		OK WPS-1	YES		CLASS I

NO."	NO's.	DATE	DATE	DATE	O.K.	COMMENTS	99 40
F13740	12	12/10/80		0.K.	YES		
F13751	23	1/8/81		O.K.	YES	***	
F13758	DC,12	1/8/81		DG	NO /	CAN'T DETERMINE DG	
F13757	5	1/8/81		0.K.	YES	** **** *** ** ** ** ** **	
F13756	JL,23	1/8/81		JL	NO /	CAN'T DETERMINE JL	
F13755	34	12/11/80	1.11	0.K.	YES "	FOR 1440 1840 1	
F13754	34	12/11/80		0.K.	YES "	REAL PROPERTY.	12
F13753	63	12/11/80		0.x.	YES		
F13752	12	12/11/80		о.к.	YES	10 3000 10 10 10 10 10 10 10 10 10 10 10 10	
F1.3750	5	12/11/80		O.K.	YES	And the second	
F13748	DG,5	12/10/80	No and	DG	NO /	CAN'T DETERMINE DG	
F13749	63	1/8/81		0.K.	YES	(A) 34;	
P1306	34,54	10/1/79	1/14/80	54-1/22/80	NO /	**	
P1187	23,12,21	9/14/79	12/18/80	OK WPS-1	YES		
P1182	12,20	9/22/79	1/8/81	OK WPS-1	YES X7	HM ON COPY, NOT CIRCL	ED
P1179	21	9/22/79	2/9/81	OK WPS-1	YES		
P1178	20,21	9/22/79	1/12/81	OK WPS-1	YES X	GP ON COPY, NOT CIRCLE	ED
		1.		11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		BS,MDS,RM,DW - NOT CI	RCLED
P1177	34,20	9/22/79	1/12/81	OK WPS-1	YES X	OUT ON COPY - GP, RM .	
P1106	21,20	7/16/79	1/12/81	OK WPS-1	YES X	OUT ON COPY - WJ	-
P1105	21,20	7/16/79	1/12/81	OK WPS-1	YES X	OUT ON COPY - WJ	
P1104	20,21	7/16/79	1/12/81	OK WPS-1	YES X?	OUT ON COPY - WJ NO DL ON FILE (COPY)	
P1103	34,20	7/16/79	1/12/81	OK WPS-1	YES X?	OUT BS ON COPY DL - NO PERSON ON FILE	E
P507	5	10/10/79	2/9/81	OK WPS-1	YES	* 40 44 E E	
F13540	26,21	11/25/80	1/6/81 .	OK WPS-1	YES	1110 -1	
F13539	23,63	11/25/80	1/6/81	OK WPS-1	YES	Market Control	1
P10643	23	12/20/79	10/30/80	OK WPS-1	YES		
F10641	23	12/20/79	10/30/80	OK WPS-1	YES		MIDLAND
P10638	23/	12/20/79	10/30/80	OK W/5-1	YES	200	YES X -
F10637	23	12/20/79	10/29/80	OK WPS-1	YES		NO -
F9567	34	9/13/79	2/9/81	OK WPS-1	YES		PLANT 2

NO. "	No's.	DATE :	DATE	DATE	0.K.	COMMENTS	fq41
F8727	12,21	9/13/79	12/17/80	OK WPS 1	YES X	34 ADDED TO COPY 12/1	7/80
P3609	12,21,23	3/30/81	4/30/81	OK WPS 1	YES	309	
P3610	34,63,23	3/30/81	4/3/81 .	OK WPS 1	YES	11.00 E 11.00 M	
F2807	63,34,21	1/28/81	2/19/81	OK WPS 1	YES	***	
F13608	21,26	11/22/80	1/22/81	OK WPS 1	YES	2012 1V21 XX V	
P500	34	10/10/79	11/7/79	OK P5	YES	*** *** **** *	
P2833	6	8/27/79	12/7/79	NO P5	NO /	RK NOT CIRCLED ON COPY	
F10423	6,JDT	12/8/79	1/10/80	NO P5	NO '	RK NOT CIRCLED ON COPY	
F10424	6 JDT	12/8/79	1/10/80	NO P5	NO Y	RK NOT CIRCLED ON COPY	
F10425	6,JDT	12/8/79	1/10/80	NO P5	NO :	RK NOT CIRCLED ON COPY	
F10426	6,JDT	12/8/79	1/10/80	NO P5	NO -	JDT NOT QUALIFIED RK NOT CIRCLED ON COPY JDT NOT QUALIFIED	
F10492	6,JDT	11/29/82	1/10/80	NO P5	NO /	OUT TW ON COPY TW NOT QUALIFIED	
F10010	48	11/3/79	1/10/80	OK P5	YES		
F10072	6	11/5/79	1/15/80	NO PS	NO ,	RK NOT CIRCLED ON COPY	
F10062	6	11/5/79	1/14/80	NO P5	NO ;	RK NOT CIRCLED ON COPY	
F13617	21	11/22/80	1/22/81	OK WPS 1	YES		
F13607	21,63	11/22/80	1/22/81	OK_WPS 1	YES		
F13574	21,23	11/21/80	1/22/81	OK WPS 1	YES		
P495	21	8/29/79	10/10/79	NO P5	NO-	RK & DW LISTED ON COPY NOT QUALIFIED	
P5817	34	4/14/79	8/27/79	NO P5	NO /	OUT BS ON COPY BS NOT QUALIFIED	
P6485	34	7/17/79		NO P5	NO .	OUT BS ON COPY BS NOT QUALIFIED	
P1114	21	7/12/79	10/1/79	NO P5	NO /	OUT DW NOT QUALIFIED	· · ·
21115	34	7/12/79	10/3/79	NO P5	NO C	OUT WJ ON COPY - NOT QU	INLIPTED
21107	21 L	7/16/79	9/17/79	OK P5		our no divisor.	
9259	21 🚓	8/31/79	11/5/2-1	NO P9		DW ON COPY - 40 QUALIF	
18952	21	9/22/79	10/31/79	NO P9	-	RK ON COPY 1-	
8951	21	9/22/79		NO P9	NO '	RK ON COPY	
2704	34,63,21		2/18/81	OK WPS 1	YES		MIDLAND
	•					* * * * * * * * * * * * * * * * * * * *	YES -II
-							CLASS I

ATTACHMENT #2 INITIAL CATEGORIZATION OF MIDLAND CLASS 1 CATEGORY 3 ("NO") TRAVELERS

CATEGORIES

- A. DATE DISCREPANCIES BETWEEN ISSUE DATE, WORK DATE, INSPECTION DATE.
- B. NO WELD PROCEDURE ON TICKET.
 - C. TWO (2) WELD PROCESSES LISTED WELDER QUALIFIED TO ONE (1) ONLY OR NEITHER.
 - D. WELDER NEVER QUALIFIED, AND/OR UNIDENTIFIABLE
 INITIALS ON COPY. (ARE INITIALS WELDER,
 INSPECTOR OR CLEANER?)
 - E. WELDER NOT QUALIFIED, BUT QUALIFIED AT LATER DATE.
 - 1. AT TRAVELER ISSUE DATE (NO WORK DATE AVAILABLE)
 - 2. AT WORK DATE
 - F. MISCELLANEOUS OTHER.

TRAVELER NO.	PAGE	CATEGORY	COMMENTS
F-6656	1	D	-TRAVELER VOIDED-
F-6654	1	D	
F-6652	1	D	-TRAVELER VOIDED-
F-6648	1	D	-TRAVELER VOIDED-
F-6644	1	D	-TRAVELER VOIDED-
F-6643	1	D	-TRAVELER VOIDED-
F6642	1 .	D	-TRAVELER VOIDED-
F-4425	2	D	Unidentifiable intials on copy
F-4399	2	. D	
F-4398	2	D	
F-4397	2	D	
F-4271	2	D .	* True *
F-4269	2	D	
F-4284	2	D	• • • • • • • • • • • • • • • • • • • •
F-4279	2	D	
F-2462	2	D	
F-4276	3	, D	
F-4275	3	D .	
P-2464	3	"b	•
F-4424	3	, D	
F-804	4	P	No Dates/Qualification status undetermined
F-11202	6	E (2)	Welder #26 & #39
F-11206	6	E (2)	Welder #39
F-11210 ¢	6	E (2)	Welder #39
F-11211 -	6	E (2)	Welder #26 -TRAVELER VOIDED-
F-11200	6	E (2),D	Welder #39/D.ITRAVELER VOIDED-
Γ-6449 · ·	6	D	D.L.
F-6444	6	E (2)	Welder #39
F-6443	6	E (2)	Welder #39
P-1110	6 .	E (2)	Welder #48 -TRAVELER VOIDED-

TRAVELEN NO.	PAGE	CATEGORY		COMMENTS
F-9379	6	D	Welder #6	COMENTS
F-9378	6	D	Welder #6	
F-8742	0	D	Welder #63	-TRAVELER VOIDED-
F-11198	9	D	S.L.	· ·
F-11186	9 :	E (2)	Welder #48	•
F-11187	9	D	S.L.	
F-11189	9	D	D.L.	-TRAVELER VOIDED-
F-11195	9	E (2)	Welder #48	-TRAVELER VOIDED-
F-11196	9	. E (2)	Welder #48	
F-9256	9	E (2)	Welder #26	
F-9251	9	E (2)	Welder #26	
P-2570	10	D	D.L.	-TRAVELER VOIDED-
P-1150	10	E (2)	Welder #6	-TRAVELER VOIDED-
P-1149	10	E (2)	Welder #39	
F-6482	10	E (2)	Welder #26	-TRAVELER VOIDED-
F-6465	10	E (2)	Welder #6	-TRAVELER VOIDED-
F-6464	10	E (2)	Welder #43	-TRAVELER VOIDED-
F-6443	10	E (2)	Welder #26	
F-5847	10	"E (2)	Welder #6	
r-5846	10	E (2)	Welder #6	
F=5842	10	E (2)	Welder #6	-TRAVLER VOIDED-
P-493	10	E (2)	Welder #5	
P=494	10	E (2)	Welder #39 6 #6	-TRAVELER VOIDED-
P-11173	10	E (2)	Welder #5	-TRAVELER VOIDED-
P-11177 *	10	E (2)	Welder #5	
r-11170 .	10	c	Welder #26	
r-5636	11	E (2)	Welder #26	
r-5632	11	E (2)	Welder #5	
-5054	11	E (2)	Welder #5	
-5053	11 '	D	D.L.	The second secon

TRAVELER NO.	PAGE	CATEGORY	COMMENTS
F-5829	12	E (2)	Welder #26
F-5827	12	E (2)	Welder #39
F-5826	12	E (2)	'/elder #26 -TRAVELER VOIDED-
F-4448	12	E (2)	Welder #43
F-4444	12	E (2)	Welder #6 -TRAVELER VOIDED-
F-4443	12	D	M.K.
P-2596	12	E (2)	Welder #5 -TRAVELER VOIDED-
F-5814	12	D	D.R.
F-6813	12	D	D.R.
P-5815	12	E (2)	Welder #26
r-5816	12	E (2)	Welder #25
P-5818	12	E (2)	Welder #39
Y-5812	12	E (2)	Welder #26
F-5011	12	E (2)	Welder #26
F-5808	12	E (2)	Welder #5
F-11105	14	r	Welder #56 not identified -TRAVELER VCIDED-
F-11036	14		Welder #58 not identified -TRAVELER VOIDED-
P-2756	29	E (2)	Welder #39
F-04412	29	"E (2)	Welder #39 -TRAVELER VOIDED-
F-04411	29	E (2)	Welder #39TRAVELER VOIDED-
F-04408	29	E (2)	Welder #39
F-4404	29	E (2)	Welder #39
F-11102	29		Welder #58 not identified
P-2971 +	30	7	Welder #24 not identified
F-9260 &	31	D	Welder #6
F-1305	31	D	Welder #6
P-1308-	31	E (2)	Walder #48
F-11171	31	E (2)	Welder #26 -TRAVELER VOIDED-
F-11176	31	E (2)	Welder #6
F-11205	31.	E (2)	Welder #26

TRAVELER NO.	PAGE	CATEGORY	COMMENTS
F-1872	17	D	-TRAVELER VOIDED-
F-8801	19	E-2	#52-Welder -TRAVELER VOIDED-
P-1112	19	` с	-TRAVELER VOIDED-
F-10268	20	E	#30
P-1201	20	. Е	#54
F-6456	20	Ε	#54
F-8767	20	E	#52 -TRAVELER VOIDED-
F-8798	20	E	#52
F-8816	20	. Е	#54 -TRAVELER VCIDED-
F-10484	21	E	#54
F-10489	21	E	#52
F-10050	23	E	#30 -TRAVELER VCIDED
F-10485	23	E	#54
F-10066	24	E	#30 -TRAVELER VOIDED-
P-1514	24	Σ	#30 -TRAVELER VOIDED-
P-1523	24	D	D.L. ? -TRAVELER VOIDED
P-1511	24	E	#54 -TRAVELER VOIDED-
P-1510	24	D	W.I. & G.S. ? -TRAVELER VOIDED-
P-10262	24	E	#54 -TRAVELER VOIDED-
F-13246	27 ·	D	#66 ? - TRAVELER VOIDED-
F-13254 ·	27	E	#64 -TRAVELER VOIDED-
F-11100	27 .	. D	#58 ?
P-11117	27	D	#58 ?
F-11050	28	E	#26 -TRAVELER VOIDED
F-11091	28	E	#26 -TRAVELER VOIDED-
F-11118	28	D	#58 ? -TRAVELER VOIDED-
F-11132	28	D	#58 ? -TRAVELER VOIDED-
P-1491	16 .	E	#54
F-02636	34	c	#12 not qualified for WPS-2
F-02635	34	С	#12 not qualified for WPS-2

TRAVELER NO.	PAGE	CATEGORY	COMMENTS	
F-13717	34	D	#21 & #5 not qualified for WPS-2	
F-2320	35	D	#21 not qualified for WPS-2	-TRAVELER VOIDED-
F-2301	35	. В	WPS not circled .	-TRAVELER VOIDED-
F-13720	35	D.	#21 & #53 not qualified for WPS-2	
P-661 *	38	A,D	#52 & #21 not qualified for WPS-2	
P-660 -	38	A,D	#52 & #54 not qualified for WPS-2	
P-659	38 .	A,D	#52 & #53 not qualified for WPS-2	
P-658	- 38	A,D	#52 & #53 not qualified for WPS-2	
P-657	38	. A,D	#52 & #53 not qualified for WPS-2	
P-3619	38	A,D	#63 not qualified for WPS-2	
P-3602	38	A,D	#63 not qualified for WPS-2	-TRAVELER VOIDED-
F-2032	38	A,D	#12 & #23 not qualified for WPS-2	TRAVELER VCIDED
F-2031	38	A,D	#5, #12, & #23 not qualified for WPS-2	-TRAVELER VOIDED
F-2223	38	. A,D	#12, #23 & #21 not qualified for WPS-2	
F-2023	38	A,D	%12 not qualified for WPS-2	
F-2009	38	A,D	#12 not qualified for WPS-2	
F-2014	38	A,D	#63 not qualified for WPS-2	-TRAVELER VOIDED-
F-2022	38	A,D	#12 not qualified for WPS-2	
F-13758	40	_D	D.G. ?	-TRAVELER VOIDED
F-13756	40	, D	J.L. ?	-TRAVELER VOIDED
F-13748 ·	40	D	D.G. ?	
P-1306	40	E	#54	
P-495	41	D	R.K. & D.W. ?	-TRAVELER VOIDED
F-5817	41	D	B.S. ?	
F-6485	41	D	B.S. ?	
P-1114	41	D	D.W. ?	
P-1115 .	41	D	W.J. ?	
P-2833	41 .	D	R.K. ?	-TRAVELER VOIDED
F-10423	41	. D	R.X. ?	THE TOTAL TOTAL
F-10424	41	D	R.K. ?	

TRAVELER NO.	PAGE	CATEGORY	COMMENTS
F-4943	11	E (2)	Welder #5
F-4941	11	E (2)	Welder #39
P-2597	11	E (2)	Welder #5 & #39
P-2595	11	D,E (2)	Welder #5/D.R.
P-2594 *	11	E (2)	Welder #5
P-1093 -	11	E (2)	Welder #43
F-6448	11 .	E (2)	Welder #26
F-6454	11	· E (2)	Welder #48
F-6486	11	. D	D.L.
F-5834	11	E (2	Welder #5 -TRAVELER VOIDED-
F-4446	11	E (2)	Welder #39
F-4445	11	E (2)	Welder #6 -TRAVELER VOIDED
F-6466	11	E (2)	Welder #5
F-5835	11	E (2)	Welder #26
F-5837	12	E (2)	Welder #39
F-5836	12	E (2)	Welder #6 -TRAVELER VOIDED-
F-5830	12	E (2)	Welder #5 -TRAVELER VOIDED-
F-10426	41	, D ,	R.K. ?
F-10492	41	Ď	R.K. ?
F-10072	41	, D	R.K. ? -TRAVELER VOIDED-
F-10062	41	. D	R.K. ? -TRAVELER VOIDED-
r-9259 .	41	. D	D.W. ?
-8952	41	D	R.K. 7 -TRAVELER VOIDED-
-8951	41	D	R.K. ?
-02632	34	С	#12 not qualified for WPS-2
-02630	34	C,D	#26 qualified after work date for WPS-2 #54 not qualified for WPS-2
-2657	34	D	#23 not qualified for WPS-2
-2656	34 .	D	#23 not qualified for PWS-2
-3023	34	. D	#21 & #54 not qualified for WPS-2

TRAVELER NO.	PAGE	CATEGORY	· COMMENTS .
F-13746	34	D	#21 & #23 not qualified for WPS-2
F-13719	34	D	#21 & #63 not qualified for WPS-2
F-13718	34	D	#21 not qualified for WPS-2
F-14851	36	D,C	#12
F-14819	36	D	R.M.
F-14586	36	D	Welder #63 & #26
F-2768	37	D	Welder #26 & #63 -TRAVELER VOIDED-
P-3075	37	D	Welder #63 & #26
F-02643	37	D	Welder #12, #23 & #26
F-02642	37	D	Welder #23 & #5
F-02641	37	D	Welder #23 & #5
F-8569	37	D	-,.P.
F-7256	2	E (2)	39 Qualified 10/29/79
F-6453	6	E (2)	
F-6452	6	E (2)	
F-02639	38	D	26 not qualified for WPS-2
F-02637	. 38	D	26 & 12 not qualified for WPS-2
F-3406	35	D	No welder I.D. for fitting
F-10425	41	- D	RK not circled on copy JDT not qualified
	1, 11		
		SER PE	
+			
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FINAL LISTING AND BREAKDOWN OF

MIDLAND CLASS 1 CATEGORY 3 ("NO") TRAVELERS

FINAL SUMMARY OF TRAVELERS WITH WELD RECORD DISCREPANCIES

Following is a listing of all Travelers that exhibit discrepancies in the information pertinent to welding.

The list was distilled from the original listing of all record copy Travelers that had a corresponding "working" (zerox) copy.

Definitions used in describing the discrepancies listed are as follows:

No Qualification Records on file"

Indicates that the records of welder qualification are not on file within the Zack Company and could not be found in the files of the test lab used for welder qualification testing. This leaves no proof that the individual in question was qualified to weld during the time frame in question.

Qualified:

Indicates the earliest date that a welder passed a welder qualification test for the particular welding process call-out on the Traveler. Records for all welders listed as qualified are on file within the Zack Company.

Work Date:

Indicates the date that welding was performed by evidence of a date entered by the welder next to his I.D. number on the Traveler.

Work Inspected:

Indicates the date that the work was inspected by evidence of a date entered next to the Inspector's initials. This date is usually within two days of actual welding and is the next most representative date for establishing a time frame for work performance.

Material Shipped:

Indicates the date that material listed on a particular Traveler was shipped to a jobsite. This date is usually within two (2) weeks of completion of work. This date is used to establish a time frame for the work when no work date or inspection date is on the Traveler. This date is more indicative of the actual work date than the Traveler issue date.

WELD RECORD DISCREPANCIES FOR PROJECT: MIDLAND Page 1

TRAVELER NO.	PAGE	WELDER I.D.	COMMENTS CLASS I
F-6654	1	Gibson	No qualification records on file. Work inspected 9-11-78.
F-4425	2	#39	Qualified 10-29-79, work inspected 6-6-79.
F-4399	2	#39	Qualified 10-29-79, work inspected 6-6-79.
F-4398	2	#39	Qualified 10-29-79, work inspected 6-6-79.
F-4397	2	#39	Qualified 10-29-79, work inspected 6-6-79.
F-4271	2	#39	Qualified 10-29-79, work inspected 6-6-79.
F-4269	2	#39	Qualified 10-29-79, work inspected 6-6-79.
F-4284	2	#39	Qualified 10-29-79, work inspected 5-21-79.
F-4279	2	#39	Qualified 10-29-79, work inspected 5-21-79.
F-2462	2	#39	Qualified 10-29-79, work inspected 5-18-79.
F-4276	3	#39	Qualified 10-29-79, work inspected 6-5-79.
F-4275	3	#39	Qualified 10-29-79, work inspected 6-5-79.
P-2464	3	#39	Qaulified 10-29-79, work inspected 6-5-79.
F-4424	3	#39	Qualified 10-29-79, work inspected 6-5-79.
F-11202	6	#39	Qualified 10-29-79, work inspected 10-12-79.
F-11206	6	#39	Qualified 10-29-79, work inspected 10-12-79.
F-11210	6	#39	Qualified 10-29-79, work inspected 10-12-79.
F-6444	6	#39	Qualified 10-29-79, work inspected 9-17-79.
F-6443	6	#39	Qualified 10-29-79, work inspected 9-17-79.
F-9379	6	#6	Qualified 10-29-79, work inspected 10-8-79.
F-9378	6	#6	Qualified 10-29-79, work inspected 10-8-79.
F-11186	9	#48	Qualified 10-29-79, work inspected 10-10-79.
F-11196	9	#48	Qualified 10-29-79, work inspected 10-11-79.
P-1149	10	#39	Qualified 10-29-79, work inspected 9-17-79.
P-5847	10	#6	Qualif.ed 10-29-79, work inspected 9-13-79.
F-5846	10	#6	Qualified 10-29-79, work inspected 9-13-79.
F-5827	12	#39	Qualified 10-29-79, work inspected 9-14-79.
F-4448	-12	#43	Qualified 10-29-79, work inspected 9-12-79.

LISTING OF MIDLAND CLASS 1 "WORKING" COPY TRAVELERS

CONTAINING NO INFORMATION PERTINENT TO THE REVIEW

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MIDLAND

CLASS I

PLANT 2 TRAVELER COPIES WITH NO EXTRA WELDER I.D. MARKINGS

657 1998 2634 658 2009 2635 659 2014 2636 660 2022 2637 661 2023 2638 695 2031 2639 1103 2032 2640 1104 2052 2641 1105 2053 2642 1106 2116 2643 1177 2221 2656 1178 2223 2657	F-2809
659 2014 2636 660 2022 2637 661 2023 2638 695 2031 2639 1103 2032 2640 1104 2052 2641 1105 2053 2642 1106 2116 2643 1177 2221 2656 1178 2223 2657	2851
660 2022 2637 661 2023 2638 695 2031 2639 1103 2032 2640 1104 2052 2641 1105 2053 2642 1106 2116 2643 1177 2221 2656 1178 2223 2657	2852
661 2023 2638 695 2031 2639 1103 2032 2640 1104 2052 2641 1105 2053 2642 1106 2116 2643 1177 2221 2656 1178 2223 2657	2866
695 2031 2639 1103 2032 2640 1104 2052 2641 1105 2053 2642 1106 2116 2643 1177 2221 2656 1178 2223 2657	2867
1103 2032 2640 1104 2052 2641 1105 2053 2642 1106 2116 2643 1177 2221 2656 1178 2223 2657	2868
1104 2052 2641 1105 2053 2642 1106 2116 2643 1177 2221 2656 1178 2223 2657	2869
1105 2053 2642 1106 2116 2643 1177 2221 2656 1178 2223 2657	2870
1106 2116 2643 1177 2221 2656 1178 2223 2657	2871
1177 2221 2656 1178 2223 2657	2872
1178 2223 2657	2873
	2874
	2875
1179 2294 2662	2976
1180 2301 2663	2877
1181 2318 2704	2878
1182 2319 2748	2879
1202 2320 2756	2880
1224 2321 2767	2881
1297 2325 2768	P-2917
F-1538 2326 2773	2918
P-1666 2327 2774	2919
1667 2330 2776	2921
F-1794 2333 2777	2922
1804 2339 2778	2955
1851 2358 2779	2971
1857 2359 2780	2972
1872 2519 2781	2973
1877 2520 2782	2974
1881 2521 2783	2975
1925 2522 2785	2976
1.927 2599 2786	2977
1928 2617 2787	2978
1929 2624 2788	2984
1930 2625 2789	2986
1931 2626 2790	2988
1932 2627 2792	2989
1933 2628 2794	2990
1934 2629 2795	2992
e 1935 2630 2798	3007
. 1937 2631 2805	
£ 1946 2632 2807	3008

MIDLAND

CLASS I

. P	LANT 2 TRAV	ELER COPIES WIT	H NO EXTRA WELDER	I.D. MARKINGS
•	P-3010	F-6431	F-10951	F-12453
	3011	6483	10952	12454
	3018	6650	10953	12466
	3023	8417	10954	12467
	3050	8567	11960	12468
	3075	7568	11988	12469
	3318	8569	11997	12472
	3325	8570	12002	12473
	3326	8571	12033	12474
	3327	8572	12034	12475
	3328	8722	12043	12476
	3330	8723	12051	12479
	3331	8724	12063	12480
	3332	8725	12086	12481
	3394	8736	12091	12482
	3396	8800	12096	12487
	3397	8909	12100	12488
	3402	8912	12101	12489
	3415	8929	12114	12490
	3430	8930	12115	12491
	3431	8931	12116	12492
	3441	8932	12117	12493
	3444	8933	12118	12494
	3446	8934	12119	12495
	3447	8935	12120	12496
	3448	8936	12121	12497
	3449	8937	12123	12498
	3450	8938	12126	12500
	3451	8939	12128	12501
	3452	8940	12130	13100
	3453	8941	12132	13238
	3455	8942	12134	13239
	3468	8943	12136	13294
	3612	9015	12138	13295
	3794	9128	12140	13296
	3913	9217	12142	13297
	3914	9467	12144	13298
	F-6385	10267	12178	13299
ęź.	6469	10483	12255	13301
	6471	10603	12256	13302
2.	6472	10604	12257	13303
	6473	10605	12258	13304
	6474	10606	12259	13480
	5477	10607	12260	13481
	6476	10608	12261'	13482
	6478	10645	12262	13483
	6479 .	10849	12263	13484
	6480	10950	12265	13485
				-5105



MIDLAND

CLASS I

PLANT 2 TRAVELER COPIES WITH NO EXTRA WELDER I.D. MARKINGS

F-13486 13487	F-14619 14620	F-17427 17428	
13488	14621	17429	
13497 13498	14622 14623	17430 17431	
13499	14820	13437	
13503	14832	17439	
13504	14834	17440	
13571	14835	17441	
13573 13574	14836 14851	17442 17443	
13575	14866	17452	
13576	15503	17453	
13577	15663		
13591	15665		
13603	15667		
13604 13605	15795 15879		
13607	15891		
13608	15938		
13609	15939		
13610	15940		
13611 13612	17066 17067		
13613	17070		
13614	17071		
13615	17073		
13616	17074		
13617	17075		
13633 13634	17076 17117		
13686	17118		
13694	17122		
13716	17123		
13717	17124		
13718 13719	17125 17126		
13720	17289		
13721	17297		
13723	17298		
13727	17299		
13746	17300		*
13763 13764	17301 17308		· .
13765	17309		>-
13781	17402		
13784	17424		
13828	17425		
13988	17426		

LISTING OF

MIDLAND VOIDED TRAVELERS

MIDLAND CLASS I VOIDED TRAVELER LIST

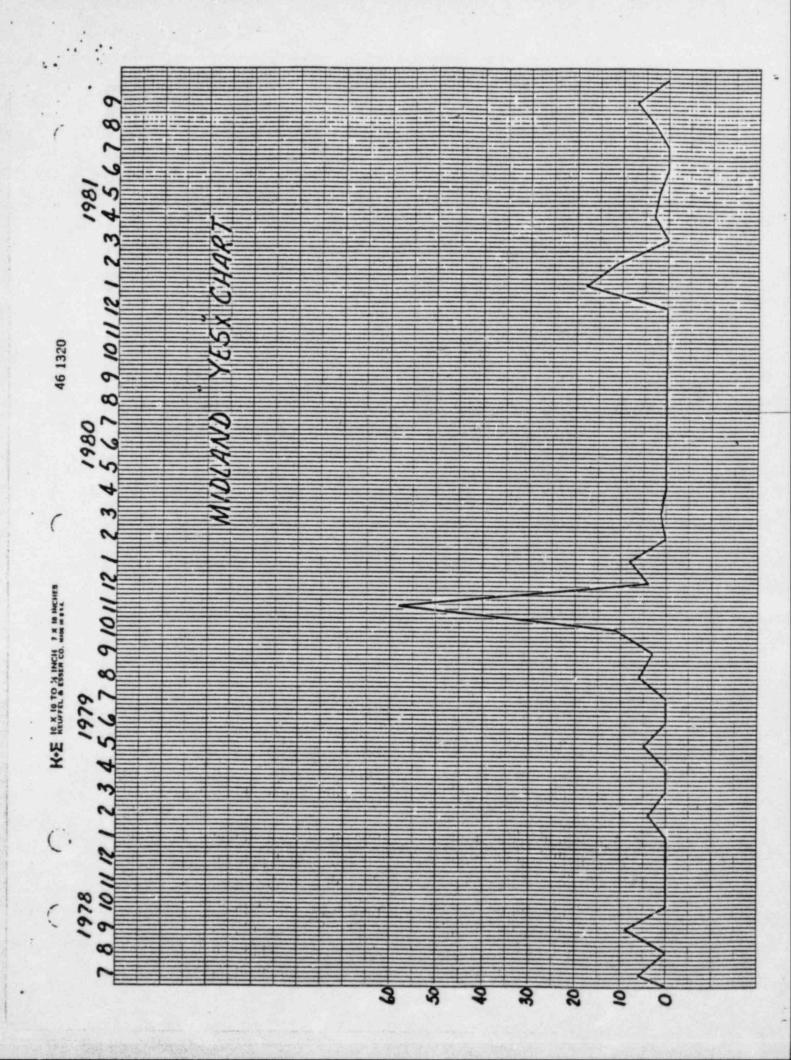
F-8911	P-1514
11171	F-10066
11173	10050
11189	8816
11195	8767
P-1523	P-1112
F-2768	F-8801
8952	1872
10062	04411
10072	04412
5830	11036
5836	11105
4445	P-2596
5834	F-4444
2833	5826
P-495	P-494
F-13756	F-5842
13758	6464
2014	6465
2301	6482
2032	P-1150
P-3602	2570
F-2320	F-8742
2031	P-1110
11132	F-11200
11118	11211
11091	6643
11050	6648
13254	6644
132/	6642
1026.	6652
P-1510	6656
1511	

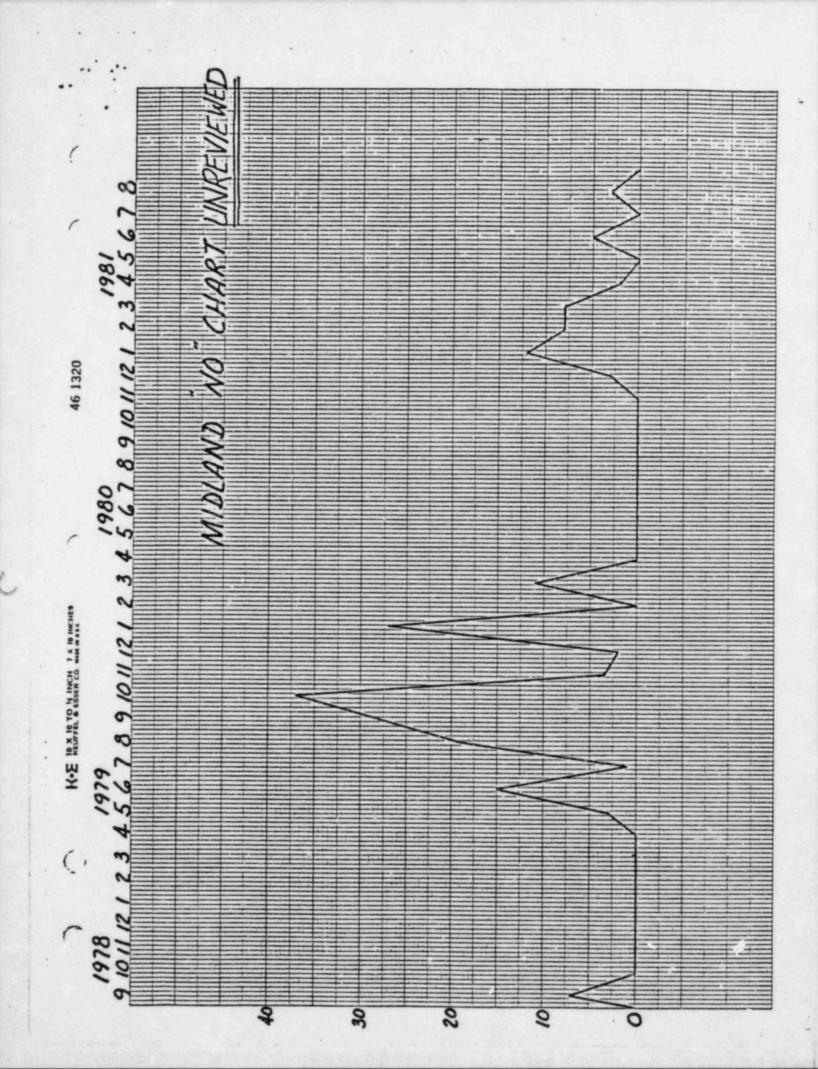
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DISTRIBUTION BY DATE OF OCCURRENCE

OF

MIDLAND CLASS 1 DISCREPANT TRAVELERS





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WELDER MATRIX

Sept. 28, 1982

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NAME	NO.	HIRE	TERM.	PLANT 2 WIRE ISSUE	GMAW CS	GMAW SS	GMAW CS/SS	SMAW CS	SMAW SS	SMAW CS/SS
H. Bartolino	14	2/1/78	6/25/78		2/3/78	N/A	N/A	N/A	N/A	N/A
T. Boyle	20	6/1/76	N/A	5/15/79	12/10/76	1/26/82	7/13/81	N/A	N/A	N/A
C. Byers	61	1/31/80	3/31/80		3/25/80	N/A	N/A	N/A	N/A	N/A
W. Collins	67	3/12/80	5/22/80	4/14/80 5/13/80	1 3/25/80	N/A	N/A	N/A	N/A	N/A
J. Dianis	9	7/31/78	9/2/79	N/A	3/2/79	N/A	N/A	N/A	N/A	N/A
I. Dickey	21	9/12/77	2/15/82	5/15/79	2/3/78	N/A	7/13/81	10/15/81	N/A	N/A
M. Drozdek	23	5/29/79	9/6/81	12/29/79 8/24/81	10/29/79	N/A	7/13/81	N/A	N/A	N/A
V. Genova	43	9/11/79	2/ /80	N/A	10/29/79	N/A	N/A	N/A	N/A	N/A
K. Gibson	11	7/7/78	11/19/78	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Z. Golon	49	6/1/65	N/A	N/A	4/27/76	8/28/79	9/25/79	4/9/79	N/A	N/A
r. Gonzalez	34	9/30/69	N/A	5/15/79	4/22/76	1/26/82	7/13/81	4/22/76	2/25/82	N/A
C. Hoffman	1	6/9/76	1/11/81	N/A	6/22/76	N/A	N/A	6/22/76	N/A	N/A
J. Jacobs	64	2/18/80	8/31/80	8/27/80	3/25/80	N/A	N/A	N/A	N/A	N/A
W. Jordan	5	4/3/72	9/18/81	6/5/79 8/7/81	3/2/79	N/A	7/13/81	N/A	N/A	N/A
L. Kuzmin	6	6/1/76	2/19/82	11/7/79 2/5/80	10/29/79	N/A	N/A	6/1/77	N/A	N/A-
4. Matkowich	12	1/10/78	12/28/81	5/15/79 8/26/81	2/3/78	N/A	7/13/81	'N/A	-N/A	N/A
RMech	59	1/13/80	4/4/80	3/26/80	3/25/80	N/A	N/A	N/A	N/A	N/A
D. Parker	11	12/7/78	1/7/79	N/A	3/2/79	N/A	N/A	N/A	N/A	N/A
3. Petkus	26	7/10/78	1/5/82	5/15/79- 3/24/81	3/2/79	N/A	N/A	4/1/81	N/A	N/A
3. Place	52	11/4/79	10/7/81	N/A	3/25/80	N/A	N/A	N/A	N/A	N/A
1. Purington	60	1/31/80	4/6/80	N/A	3/25/80	· N/A ·	N/A	N/A -	- N/A	N/A
2. Quinn	9	5/27/80	N/A	7/10/80	7/8/80	1/26/82	8/28/81	N/A	N/A	N/A
R. Scott	63	2/8/80	N/A	8/4/80	7/8/80	1/26/82	7/13/82	N/A	N/A	N/A
7. Smith	39	2/5/79	8/31/80	5/15/79- 8/13/80	10/29/79	N/A	N/A	N/A	N/A	N/A
. Socha	30	9/8/78	10/19/80	N/A	1/22/80	N/A	N/A	N/A	N/A	N/A
i. Sowa	56	3/31/80	6/29/80	5/1/80-6/11/80	4/17/80	N/A	N/A	N/A	N/A	N/A
). Way	48	7/19/79	9/21/80	11/5/79-6/20/80	10/29/19	N/A	N/A	N/A	N/A	N/A
Weiss	66	3/12/80	5/25/80	3/26/80- 5/2/80	3/25/80	N/A	N/A	N/A	N/A	N/A
r. Weyer	54	12/7/79	10/8/81	3/3/80- 9/24/81	1/22/80	N/A	7/13/81	N/A	N/A	N/A
& Zogata	29	5/19/69	N/A	N/A	12/10/76	N/A	N/A	N/A	N/A	N/A

CLEANER & INSPECTOR MATRIX

Sept. 28, 1982

12.

CLEANER/INSPECTOR LIST

NAME	NO.	POSITION	HIRE	TERM.
S. Bilek	6	Cleaner	3/11/80	8/17/80
J. Bonsimore	14	Cleaner	8/30/78	2/17/80
E. Bryson	65	Cleaner	3/11/80	8/17/80
T. Burton	43	Cleaner	4/01/80	7/06/80
R. Diaferia	55	Cleaner	9/14/78	3/22/81
C. Eichstaedt	N/A	Q.A.	1/07/78	N/A
J. Fitzpatrick	22	Cleaner	3/29/71	N/A
J. Friskenstein	?	Cleaner	9/18/79	9/24/79
H. Geyer	N/A	Q.C.	8/66	N/A
A. Hansen	Gary	Cleaner	1/24/80	4/02/80
D. Hanslor	59	Cleaner	4/16/80	8/31/80
D. Ireton-	11	Cleaner	5/16/79	11/25/79
E. Jerzak	32	Cleaner	8/23/78	8/10/80
M. Johnson	25	Cleaner	9/15/78	N/A
M. Kelly	?	Cleaner	2/16/81	3/19/82
P. Klecki	57	Cleaner	4/07/80	5/15/80
S. Lanasa	?	Cleaner	2/28/78	4/23/78
M. Lilja	15	Cleaner	6/13/79	N/A
J. Lott	33	Cleaner	?	N/A
J. McElroy	45	Cleaner	5/07/79	11/03/80
J. McGuin	44	Cleaner	1/21/80	3/22/80
J. Michalik	N/A	Q.C.	2/29/80	1/17/82
R. Miklos	51	Cleaner	12/03/79	8/03/80
R. Morency	: 8	Cleaner	8/10/78	12/28/80
. Pabisinski	50	Cleaner	9/17/79	N/A
). Richards	35	Q.C.	6/01/78	N/A
. Rychell	4	Cleaner	4/29/74	7/09/82
. Schaeffer	N/A	. Q.C.	8/18/80	4/23/82
. Schultz	61	Cleaner	11/30/70	-1 5/04/80
. Spychalski	3	Cleaner	5/76	N/A
. Thompson	N/A	Q.C.	11/07/77	11/02/80

STATEMENT OF THOMAS BOYLE

STATEMENT OF THOMAS BOYLE

My name is Thomas Boyle. From approximately May 1979 to October 1981 I was the General Foreman of Plant No. 2.

During the time period when the Xerox copy of the yellow copy of the traveler was sent over to Plant No. 2, I would give Bud Prim a slip of paper containing or orally give him information with respect to who did the welding.

The initials which appear on the Xerox copies of the yellow copy are not necessarily the initials of the person doing the welding. The information on the Xerox copy was an effort to keep track of what was done to the material while in plant No. 2. Therefore, the initials on the Xerox copy could be the initials of persons, including welders, who did cleaning or shipping. Therefore, it is impossible to tell just by looking at the Xerox copy who did welding, cleaning or shipping. Also, these Xerox copies are not the official records. The official records are the actual yellow copies retained by Zack.

At the time I attempted to discard the Xerox copies, I did so because these records were not the official records and I did not feel we had any obligation to retain them. Also, I felt that because I knew that there were initials of persons on the Xerox copies who may not have done welding and who may have done cleaning or shipping and because there was no way to tell by looking at the Xerox copies who did what, I thought the Xerox copies would cause unnecessary confusion. I talked to Bud Prim. He agreed that these records were not the official records and that Zack had no obligation to retain them and that they would cause unnecessary confusion. Bud Prim agreed that I should discard them.

Dated: August 27, 1982

Thomas Boyle

STATEMENT & QUALIFICATION RECORDS

of

KENNETH GIBSON

To Whom It May Concern:

22

The following are the jobs and/or training I have had as a Sheetmetal Welder.

- 1. Attended adult evening school in Joliet for welding class.
- 2. Started working for Zack in 1966-67 (approximately 18 months).
- 3. Worked for R. B. Heyworth for 3 or 4 months.
- 4. Back to Zack worked at Republic Steel job and at U. S. Steel.
- 5. Took union welding test in 1977.
- Worked for Babcock and Wilcox at Morris Station Power House in Joliet (visual test).
- Worked at Pullman Sheetmetal and took tests for them. Did not get results of tests but they should have copies.
- 8. Worked for Peerless Sheetmetal Co.
- 9. Worked for E. F. Guafstson in Skokie.
- 10. Worked for Merchants Sheetmetal Co. in Chicago.
- 11. Took visual tests for R. Irsay Company.
- 12. Working in Clinton Power Station for 20 months.

Kenneth Gibson

Att: Certifications



CERTIFICATE

OF

TEST AND APPROVAL OF WELDING PROCESS

QUALIFICATION OF OPERATOR OF WELDING EQUIPMENT

PITTSBURGH TESTING LABORATORY, has witnessed the welding and testing of test specimens welded by an employee of National Training Fund

for the Sheet Metal & Air Conditioning Industry
1900 L Street, N. W., Suite 405
Washington, D. C.
in accordance with

American Society of Mechanical Engineers Boiler and Pressure Vessel Code, Section IX, 1974 Edition plus Addenda through Summer 1976

Valding Unergior	th Gibson No. 347-28-016
	This is to certify that the Welding Technic used in this test and described in SPECIFICATIONS FOR WELDING PROCESS No. PG-4690 and the results of the test given in PHYSICAL TEST REPORT No. 772675 complied with the requirements of the above code within the following limitations. Maximum Plate or Wall Thickness 3/4" Minimum Plate or Wall Thickness 1/16" Welding Positions Flat, OH & Horiz. Other Limitations Fillet & GZOOVE
	Remarks Group No. Pl to Pl
Operator Tested	
NoOrder NoPG-4690	PITTSBURGH TESTING LABORATORY

2

PITTSBURGH. PA.

AS A MUTUAL PROTECTION TO CLIPME THE PURLIE AND DURSCLVES. ALL REPORTS
ARE SUMMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS, AND AUTHORISATION
FOR PUBLICATION OF STATEMENTS. CONCLUSIONS OR EXTMACTS FROM OR REGARDING
OUR REPORTS IS RESERVED PERDING OUR WRITEGE APPROVAL.

Lab No. 772675 Order No. PG-4690 Date 2/7/77

PHYSICAL TEST REPORT OF WELDER PERFORMANCE QUALIFICATION TESTS

	, N. W., Stite 405, W.	ashington, D. C. 20036	Attn: J. K. Olejn
elder Nome Kenneth	Gibson	S. S. 847-28-0161 Sta	mp No44
elding Frocess SMAW			
For Plate: Flat, horizontal, verti	ical, or overhead, For Pipe: Ax	Overhead & Horizons of pipe vertical, horizontal fixed	ntal Grooves d or horizontal rolled).
a accordance with Procedure Spen	cification No ASME Se	ction IX 1974 Edition	•
laterial - SpecificationSA3	6 to SA36 of F	2-No1 to I	P-No1
		3/8" Plate	
hickness Range this qualifies	1/16" to 3/4"		
pecification No. ASME SFA		METAL	
245			
		Welding Multipass	
Above Information by: PTL	Client Other	Welding Multipass	
Above Information by: PTL D	Client Other	Welding Multipass	
Nove Information by: PTL Preparation of specimen witnesse Overhead	Client Other	Welding Multipass TEST RESULTS Horizont	al
Above Information by: PTL Preparation of specimen witnesse Overhead TYPE AND FIGURE NO. 4G Face Bend	Client Other	Welding Multipass TEST RESULTS Horizont FIGURE NO. 2G Face Bend	al RESULT
Overhead Type and Figure No. 4G Face Bend 4G Root Bend	Client Other	Welding Multipass TEST RESULTS Horizont FIGURE NO. 2G Face Bend 2G Root Bend	RESULT PASSED
Above Information by: PTL Department of specimen witnesses Overhead Type and Figure No. 4G Face Bend 4G Root Bend Test Witnessed by PITTSBUR	Client Other	Welding Multipass TEST RESULTS Horizont FIGURE NO. 2G Face Bend 2G Root Bend	RESULT PASSED
Overhead Type and Figure No. 4G Face Bend 4G Root Bend Test Witnessed by PITTSBUR	Chient Other	Welding Multipass TEST RESULTS HORIZONT FIGURE NO. 2G Face Bend 2G Root Bend Test No. 1811	PASSED PASSED
Overhead Type and Figure No. 4G Face Bend 4G Root Bend Test Witnessed by PITTSBUR per	Client Other	Welding Multipass TEST RESULTS HORIZONT FIGURE NO. 2G Face Bend 2G Root Bend Test No. 1811 N SOCIETY OF MECHANICAL	PASSED PASSED
Overhead Type and Figure No. 4G Face Bend 4G Root Bend Test Witnessed by PITTSBUR per	Chient Other	Welding Multipass TEST RESULTS HORIZONT FIGURE NO. 2G Face Bend 2G Root Bend Test No. 1811	PASSED PASSED PASSED ENGINEERS, BOILER TION IX, 1974 EDITION



CERTIFICATE

OF

TEST AND APPROVAL OF WELDING PROCESS

AND '

QUALIFICATION OF OPERATOR OF WELDING EQUIPMENT

PITTSBURGH TESTING LABORATORY, has witnessed the welding and testing of test specimens welded by an employee of National Training Fund

for the Sheet Metal & Air Conditioning Industry
1900 L Street, N. W., Suite 405
Washington, D. C.
in accordance with

American Welding Society
Structural Welding Code D1.1-75

Welding Process Shie	
	This is to certify that the Welding Technic used in this test and described in SPECIFICATIONS FOR WELDING PROCESS No. PG-4690 and
	REPORT No. 772675 complied with the
	limitations.
	Maximum Plate or Wall Thickness 3/4" Max.* Minimum Plate or Wall Thickness Not Limited Welding Positions Flat, OH & Horiz.
	Other Limitations Fillet & Groove *Fillet Not Limited
Operator Tested	Remarks AWS A5.1 Electrode

File No ._

Approved 2/7/77



UNITED STATES NUCLEAR REGULATORY COMMISSION REGION III 799 ROOSEVELT ROAD

Little

GLEN ELLYN, ILLINOIS 60137

JUI 26 1983

Docket No. 50-329 Docket No. 50-330

Ms. Billie P. Garde, Director Citizens for Accountable Government Government Accountability Project Institute for Policy Studies 1901 Que Street Washington, DC 20009

Dear Ms. Garde:

In the interest of providing a fresh and independent assessment of the adequacy of the Zack Company's construction activities at Midland, the Region III Administrator directed the Region's Division of Engineering to conduct a thorough inspection of site HVAC construction activities including the concerns brought to our attention by former employees. Accordingly, we have begun the onsite inspection of Zack's activities and the detailed review of the pertinent affidavits which were provided to us by GAP so that an onsite inspection of these concerns can be conducted where appropriate.

One of the affidavits we are reviewing is a response to an investigation conducted by Region III personnel which is documented in Report No. 50-329/80-10; 50-330/80-11. The affidavit was filed with us prior to the issuance of Report No. 50-329/82-15; 50-330/82-15. This report documents the results of the follow-up of open items from Report No. 50-329/80-10; 50-330/80-11. We believe that Report No. 50-329/82-15; 50-330/82-15 addresses the substantive technical issues expressed by the affiant, and are enclosing a copy of this inspection report with the request that you make it available to him for review. If after reviewing this report the affiant still has unresolved issues, then we would like to meet with him to discuss his specific concerns.

4403220163

Please advise Mr. Duane Danielson of this office at (312)932-2610 if you are unable to contact the affiant or if you have any questions regarding this letter. We appreciate your cooperation in this matter.

.Sincerely, -

Poriginal Signed by R. L. Spessard"

R. L. Spessard, Director Division of Engineering

Enclosure: Report Nos. 50-329/82-15; 50-330/82-15

cc w/o encli Consumers Power Company ATTN: Mr. James W. Cook DMB/Document Control Desk (RIDS) Resident Inspector, RIII The Honorable Charles Bechhoefer, ASLB The Honorable Jerry Harbour, ASLB The Honorable Erederick P. Cowan, ASLB The Honorable Ralph S. Decker, ASLB William Patony ELD Michael Miller Ronald Callen, Michigan Public Service Commission Myron M. Cherry Barbara Stamiris Mary Sinclair Wendell Marshall Colonel Steve J. Gadler (P.E.) Howard Levin (TERA) Lynne Bernabei, Government Accountability Project

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UNITED STATES NUCLEAR REGULATORY COMMISSION REGION III 799 ROOSEVELT ROAD

GLEN ELLYN, ILLINOIS 60137

MAI 20 1.4

Docket No. 50-329 Docket No. 50-330

Consumers Power Company ATTN: Mr. D. L. Quamme Site Manager P. O. Box 1963 Midland, MI 48640

Gentlemen:

SUBJECT: DeLaval Diesel Generator Mechanical Equipment Installation Involving ASME Section III Code and Non-Code Work

The NRC staff has concluded a review of the work activities described in your letter dated March 15, 1984, and discussed in detail at a meeting with your staff on March 7, 1984. The NRC staff has determined that these work activities are vendor related and fall outside the scope of the Construction Completion Program (CCP).

The staff has reviewed your overall program, procedures, Project Quality Control Instructions (PQCIs), the involvement and interfaces with the Authorized Nuclear Inspector (ANI), the six dedicated QC inspectors from MPQAD, and the dedicated MPQAD QA engineer, the DeLaval field representatives and QC inspector, the assignment of a dedicated Bechtel team and the overview by the independent third party, Stone and Webster. Based on this review the NRC has concluded that CPCo has completed the prerequisite requirements and has in place adequate controls to begin these activities

440403044

This letter therefore authorizes Consumers Power Company to proceed with the DeLaval Diesel Generator Mechanical Work.

Sincerely,

CRIGINAL SICKED BY J. J HARRISCA

J. J. Harrison, Chief Midland Section

cc w/CPCo 1tr dtd 3/15/84: DMB/Document Control Desk (RIDS) Resident Inspector, RIII The Honorable Charles Bechhoefer, ASLB The Honorable Jerry Harbour, ASLB The Honorable Frederick P. Cowan, ASLB William Paton, ELD Michael Miller Ronald Callen, Michigan Public Service Commission Myron M. Cherry Barbara Stamiris Mary Sinclair Wendell Marshall Colonel Steve J. Gadler (P.E.) Howard Levin (TERA) Billie P. Garde, Government Accountability Project Lynne Bernabei, Government Accountability Project Stone and Webster Michigan, Inc.

RIII KNN Gardner/db 03/26/84 RIII KFW Warnick 3/28/84

RIII

RIII/Z RIII
Lewis Davis
3/23/84 3/24



Harrison 03/25/84