 <b>Pullman Power Products</b>		FF-2
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		LATEST REV. DATE 1/17/84

**PROCEDURE FOR HANDLING  
NOT CONFORMANCES AND LIMITED  
VOICE AUTHORIZATION (FIELD)**

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PULLMAN POWER PRODUCTS

HEADQUARTERS AT  
WILLIAMSPORT, PENNSYLVANIA

**RECEIVED  
U.E. & C. INC.  
FEB 08 1984  
SEABROOK  
STATION**

UE&C CODE
19

REVISION	PREPARED BY	APPROVED BY	INITIALS	DESCRIPTION
15 02/16/83	E. Fisher	E. Hinkley	EH	Extensively revised; released.
16 04/16/83	W. Becksted	E. Hinkley	EH	Revised Para. 6.1.2.B, 8.2, 8.2.2, 8.3, 8.3.2, 13.3 & Appendix L; Editorial corrections.
17 05/16/83	G. Elmore	E. Hinkley	EH	Add Para. 4.2.12, Revised Para. 7.3.1, Deletion of Page 8, 11-18 of Appendix L; Editorial corrections.
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### 1.0 SCOPE

- 1.1 This procedure defines the necessary action required to process nonconformances (NC's) in accordance with Section IV of the Company's Quality Assurance Manual.
- 1.2 Nonconformances in ASME Section I, III, and VIII items, and items designated as safety related (ie: AWS Whip Restraints, etc.) shall be identified and processed in accordance with this procedure.

### 2.0 POLICY

- 2.1 Nonconformances in items may be detected at source inspection, receiving inspection, in-process inspection or surveillance during fabrication or installation, at final inspection, examination or during testing.

- 2.1.1 Nonconformance Reports shall be classified as either minor or Major.

A. A Minor Nonconformance is one which may be dispositioned as rework or scrap. UE&C evaluation/disposition is not required for Minor Nonconformance Reports.

B. A Major Nonconformance is one which can not be classified as minor. UE&C evaluation/disposition is required for all Major Nonconformance Reports.

- 1.) Nonconforming conditions identified in B-Stamped components and their supports shall be classified as Major Nonconformances.

- 2.2 Nonconformances associated with Non-Code and Non-Safety related items are reported and controlled in accordance with Project Procedure IV-2 HPS.

- 2.3 Nonconformances identified during Receipt Inspection or Documentation Review of materials and items furnished by UE&C are not included in the scope of this procedure. The unacceptable material, items and/or documents will be rejected by the Company and shall be handled through the UE&C Nonconformance Procedure, as described in Sections VII and VIII of the Company's Quality Assurance Manual.

### 3.0 RESPONSIBILITY

- 3.1 It is the responsibility of the QA Manager for the implementation of this procedure through his examination, inspection and testing personnel.





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3.2 The Chief Field Engineer, or his designee, shall provide the disposition of all Minor MCR's per this procedure.

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3.3 UELC shall provide the disposition of all Major MCR's, per this procedure.

3.4 The QA Manager, or his designee, shall evaluate all nonconformances for applicability for reporting under 10 CFR 50.55 (c) to the Customer. This evaluation shall also take into consideration the Company's obligations to report defects or noncompliances under 10 CFR 21 (Ref: Procedure XV-3).

3.5 The QA Manager or his designee, upon evaluation of the MCR, will indicate the corrective action to be taken as described in Paragraph 4.0.

3.5.1 The corrective action will be implemented as soon as possible, to prevent repetition of the nonconformances.

## 4.0 APPLICABILITY OF NONCONFORMANCE REPORT (MCR)

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4.1 Unacceptable conditions will exist that do not require an MCR. These conditions are those that can be corrected at the time of discovery or during subsequent in-process operations, when the correction or repair will be in compliance with applicable Code and procedure or standard (Appendix L) repair specifications. All activities shall be performed under the control, and to the satisfaction of a qualified QC Inspector who will ensure that they are controlled by operations detailed in Process Sheets, or by Base Metal Surveillance Reports or Weld Repair Orders issued by him, per Procedure JS-IX-14.


4.1.1 These unacceptable conditions may be removed by additional grinding or machining, without an MCR, provided the requirements of subparagraph A through D below are met. In the event they cannot, they shall be reported on an MCR as described in Paragraph 4.2.

A. The remaining section thickness is not reduced below the required minimum thickness.

1. When the minimum thickness is suspect, UT or mechanical measurements shall be employed for thickness verification.

B. The depression, after unacceptable condition elimination, is blended uniformly into the surrounding surface.



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C. After removal of the unacceptable condition, the area is reexamined by magnetic particle and/or liquid penetrant method, to assure that the unacceptable condition has been removed or reduced to an acceptable size.

D. Areas ground to remove oxide scale or other mechanically caused impressions for appearance or to facilitate proper ultrasonic testing need not be examined by magnetic particle or liquid penetrant test methods.

4.1.2 Unacceptable conditions not requiring an ECR include, but are not limited to: Additional grinding of welds or base materials to attain required crown height or dimensions, elimination of surface imperfections as may be required for nondestructive examination and removal and repair of unacceptable indications in welds prior to final acceptance.

A. These conditions shall be corrected in accordance with Procedure JS-IX-14, "Defect Removal and Repair by Welding", and/or the applicable ECR procedure.

4.2 An ECR (Appendix D) shall be initiated under, but not limited to, the following conditions:

4.2.1 Incorrect materials (i.e., type, size, schedule, etc.,) that are in conflict with engineering design documents and/or Code.

4.2.2 Incomplete or incorrect acceptance of documentation or identification of Owner/ULC furnished equipment or material, identified after receipt inspection acceptance.

4.2.3 Conditions which do not meet the requirements established by Project Procedures, Code, or specifications.

4.2.4 Weld repairs of base metal exceeding 1/3 of nominal thickness.

4.2.5 Repairs required in welds or base metal after third cycle of repair.

4.2.6 Weld repairs required to end preparations. (See Appendix L, Specification No. 4).

4.2.7 Improper procedure retaining dimensions (minimum wall deviations) where weld repairs are not authorized.

4.2.8 Misalignment of components beyond Code, procedure or specification tolerances, which can not be corrected by "Full Weld Repair" per Procedure JS-IX-14.

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4.2.9 Repair welding following final leak (Hydrostatic/Pneumatic) testing, or final heat treatment.

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4.2.10 Any damage, tampering, defect or deficiency in permanent plant equipment, installed by Pullman Power Products, that will render it inoperable or unable to meet the original design requirements.

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B. Any similar conditions in equipment installed by others shall be reported on a Construction Incident Interface Report (CIIR) per Procedure IX-57, not on an ECR.

4.2.11 Any inability to meet fit-up at closure joints on piping runs without the use of any external forces, as outlined in Project Procedure X-9.

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4.2.12 Repairs for correction of damaged or nonconforming urethane liners.

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4.3 The conditions described in Paragraphs 4.2.4, 4.2.5, 4.2.8 and 4.2.9 shall be classified as Major Nonconformances. All others shall be classified as Major or Minor in accordance with the provisions of this procedure.

## 5.0 IMMEDIATE ACTION

1/17/84

5.1 When a nonconformance is discovered, the item involved shall be segregated, when possible. In accordance with procedure IV-4, a QC Inspector shall place a "Hold Tag" (Appendix G) on the item or adjacent to the operation (as in the case of welding). Simultaneous to the application of the Hold Tag, the QC Inspector/QC Tag Coordinator shall locate the applicable Field Process Sheet (Appendix E) or Field Weld Process Sheet (Appendix F), if one exists, and record the ECR number thereon at the point the violation occurred. If the Process Sheet has been issued to the field it will be returned to the QA Specialist-Process at the Document Verification Center (DVC) by the individual who signed it out. Hold Tags will be controlled through the EC Log (Appendix I).

5.2 The ECR form shall be initiated in a timely manner in accordance with instructions contained in Appendices A, B & C, and forwarded to QA for processing.

## 6.0 LIMITED WORK AUTHORIZATION (LMA)

6.1 LMA is the controlled release of an item which has a Hold Tag affixed.





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6.1.1 The Hold Tag indicates the status of items placed on "Hold" as the result of a Stop Work Order (SWO) (ref. Stop Work Order Procedure III-3), a Nonconformance Report (NCR), etc. The purpose of the LMA is to permit specifically defined movement or related work to proceed on an item affected by a Hold Tag, concurrent with resolution of the cause for the Hold. In no case shall the LMA authorize work which may affect, or be affected by the condition described in the initiating document (i.e., SWO or NCR). The LMA shall not allow work to proceed to a point which would render any immediately adjacent item inaccessible for inspection or rework. This shall be evaluated by VETC prior to approval of the LMA.

6.1.2 An LMA Request (Appendix J) will be prepared by the responsible Field Engineer. It shall delineate the specific LMA scope of work and cross reference document number(s) which are related to the Hold Tag.

A. The responsible Field Engineer shall submit the LMA Request to the Chief Field Engineer, or his designee, and the QA Manager, or his designee, for review and approval.

B. Upon approval as required in "A" above, the LMA Request, for Major NCR's only, shall be submitted to VETC Responsible Site Engineer for review and approval.

C. Each LMA shall be submitted to the AFI so that he may review and have the opportunity to assign Hold Points prior to performance of work.


6.1.3 Upon approval of the LMA request, the QA Manager, or his designee, shall initiate the LMA Tag. Suitable control tags, indicating LMA status shall be maintained by him. Any Field Drawings or Field Process Sheet(s) which may have been withdrawn will be reviewed and revised, if necessary. The approved LMA Request will cover the scope of work, (i.e., the operations to be performed) and/or the "From" and "To" move locations. A copy of the approved LMA Request will be submitted to the field through the individual who requested it.

6.1.4 Concurrent with release to the field of an approved LMA Request, and prior to item work or movement, a QC Inspector will affix an LMA Tag (Appendix H) adjacent to the Hold Tag on any affected item(s).

6.1.5 After the LMA work has been performed, the LMA Request shall be forwarded to QC Inspection. Inspection and acceptance of LMA scope of work will be defined in procedures called out on applicable Field Drawings, Field Process Sheets, or on the LMA Request.

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6.1.6 Upon completed inspection of the scope of work, the applicable QC Inspector will remove the LMA Tag and retain it to the QA Office. At the QA Office he will sign off the original LMA Request signifying completion of work. All other documentation pertaining to the LMA scope of work shall remain with the Process Sheets.

6.1.7 If action has been taken which allows removal of the Hold Tag prior to completion of the LMA scope of work, the field copy of the LMA Request will be withdrawn by the QC Inspector. The Inspector will destroy the field copy of the LMA Request, remove the LMA Tag and Hold Tag and return them to the QA Department to enable updating of the respective logs. The Inspector will note on the original LMA Request the last element of work scope which was completed and sign the Request as completed. All other documentation pertaining to the last element of LMA scope of work completed, shall remain with the Process Sheet(s).

6.2 After RFP release (construction completion turnover), the Owner's Start up and Test Department (STD) may issue its own LMA to authorize pre-operational (i.e. PTOB) Testing only. When issued for this purpose, an STD LMA will take priority over previously applied Company tags, with respect to STD activities.

7.0 PROCESSING AND EVALUATION OF NONCONFORMANCE REPORTS

7.1 The Initiator, upon discovery of a condition believed to require a Nonconformance Report, shall initiate an NCR in accordance with this procedure (See Appendices A, B & C) and forward to the QA Manager's Designee (QA-NCR).

7.1.1 In all cases, the NCR shall include a proposed disposition as determined by the Initiator, or in conjunction with Field Engineering, Quality Assurance, ULIC and/or QAC consultants.

7.2 Upon receipt, QA-NCR shall verify that Hold Tag(s) have been assigned. For instances where they have not, and are required, steps shall be taken to assign Hold Tag(s) and arrange for their application in a timely manner.

7.3 The NCR shall then be reviewed by QA-NCR and Engineering to determine if it is, or is not, a nonconforming condition requiring reporting as an NCR, or can be handled by other established methods.

7.3.1 If this review determines that the condition does not warrant reporting as an NCR, or should be reported by other means (i.e. non-Code reporting procedures) the NCR shall be voided per paragraph 13.0 of this procedure.



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7.4 A Nonconformance which requires reporting shall be reviewed for compliance with Appendices A, B & C requirements, and that it adequately and accurately describes the nonconformance and establishes the cause for its occurrence.

7.5 Engineering shall be responsible for stating the final recommended disposition to include a detailed description of justification (as warranted).

7.6 QA-MCR shall be responsible for stating the final corrective action.

7.7 The proper signatures shall be obtained from the Chief Field Engineer (or designee), QA Manager (or designee) and ANI.

7.7.1 ~~ANI review is not required for non-Code safety-related MCR's.~~

/17/84

7.7.2 ~~ANI review of Major MCR's shall be performed as part of the UEAC disposition process.~~

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7.7.3 ANI review of Minor MCR's shall be performed as part of the Company disposition process.

7.8 Distribution shall be made as required, and controlled through the use of the NC Log. Approvals shall be obtained as outlined in Paragraph 8.0.

## 8.0 PROPOSED DISPOSITION OF NONCONFORMANCE REPORTS

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8.1 The proposed disposition of a nonconformance will be reviewed by the Chief Field Engineer, or his designee, who will accept the recommendation of the originator or propose a disposition of his own. As necessary, he shall consult with Field Engineering Personnel for technical evaluation and/or guidance. The proposed disposition shall be reviewed for proper classification (i.e. Major or Minor per Para. 2.1) and for Code compliance by the QA Manager, or his designee. If in this review the QA Manager does not concur, the MCR will be returned for reevaluation and/or revision of the classification or proposed disposition. Acceptable Major MCR dispositions, and their limitations, are defined in 8.2 through 8.6, below. Acceptable Minor MCR dispositions are limited to Scrap, per paragraph 8.2 and Rework per Paragraph 8.5.

8.1.1 For nonconformances which do not meet the Code, the item may be scrapped, returned for replacement, repaired or reworked to bring it within Code requirements. (It cannot be accepted as is.)





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8.1.2 For nonconformances which meet Code Requirements, but deviate from Customer requirements, the item may be scrapped, returned for replacement, reworked, repaired to bring it into specification or accepted to "Use-As-Is".

4/14/83

## 8.2 Scrap Disposition (UE&C Disposition "Reject" with scrap instructions)

8.2.1 Scrap is normally defined as totally discarding an item or material. A "Scrap" disposition is used when an item does not meet Code and/or specification requirements and Repair or Rework is impractical or impossible.

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8.2.2 Upon receipt of an approved NCR, dispositioned "Scrap"(Reject), the QA Engineer responsible for Materials, or his designee will receive a copy of the NCR and ensure the material is marked "Scrap" and segregated for removal to the designated scrap area (i.e. return to UE&C). He will also complete Line #13 of the NCR.

8.2.3 The Chief Field Engineer, or his designee, will initiate (or cause to be initiated) the required documents for replacement, if necessary.

4/14/83

## 8.3 Return Disposition (UE&C Disposition "Reject" with return instructions)

8.3.1 Return is normally defined as requiring removal and shipment back to the originating party.

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8.3.2 Upon receipt of an approved NCR dispositioned "Return"(Reject), QA-NCR will advise the QA Engineer-Materials who will arrange for the return of the item and complete Line #13 of the NCR.

## 8.4 Repair Disposition

8.4.1 Repair is normally defined as the process of restoring an item to an acceptable condition, in conformance with Code, drawing and/or specification requirement, but may not conform to the original design requirements.

8.4.2 Upon receipt of an approved NCR dispositioned "Repair", QA-NCR shall forward a copy of the NCR to the Field Engineer for comment of repair activities.





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- A. When repair activities involve a changed or new Special Process requirement, UMAC shall initiate Field Drawing revision(s)/ECA(s); and new or revised Process Sheets shall be prepared per Project Procedures III-4 and VI-5. Work may commence when the required documents are prepared, approved and received by the Field Engineer.

## 8.4.3 Repair of Weld Metal Defects

1/17/84

- A. Unacceptable field weld defects and base metal defects detected by those methods required by the applicable Code, shall be eliminated and repaired in accordance with Procedure JS-IX-14 or IX-71, as applicable.
- B. In addition to the above requirements, all repair(s) of base metal defects shall be performed in accordance with ECR-4450.

## 8.5 Rework Disposition

- 8.5.1 Rework is normally defined as the process of restoring an item to an acceptable condition in conformance with Code, drawing and specification requirements using a previously approved procedure.

- 8.5.2 Upon receipt of an approved ECR dispositioned "Rework", QA-ECR shall forward a copy of the ECR to the Field Engineer for commencement of rework activities.

1/17/84

- A. When rework activities involve a changed or new Special Process requirement, UMAC shall initiate Field Drawing revision(s)/ECA(s); and new or revised Process Sheets shall be prepared per Project Procedures III-4 and VI-5. Work may commence when the required documents are prepared, approved and received by the Field Engineer.

## 8.6 Use-As-Is Disposition (Synonymous with Accept-As-Is)

- 8.6.1 "Use-as-is" is normally defined as the acceptance of a deviation when it can be established that the discrepancy will result in no adverse condition and the item will meet Code and Design Specification requirements.

- 8.6.2 Upon receipt of an approved ECR dispositioned "Use-As-Is" the QA Manager, or his designee, will arrange for removal of the Weld Tag.



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- A. When repair activities involve a changed or new Special Process requirement, UE&C shall initiate Field Drawing revision(s)/ECA(s); and new or revised Process Sheets shall be prepared per Project Procedures III-4 and VI-5. Work may commence when the required documents are prepared, approved and received by the Field Engineer.

## 8.4.1 Repair of Weld Metal Defects

1/17/84

- A. Unacceptable field weld defects and base metal defects detected by those methods required by the applicable Code, shall be eliminated and repaired in accordance with Procedure JS-IX-16 or IX-71, as applicable.
- B. In addition to the above requirements, all repair(s) of base metal defects shall be performed in accordance with JS-IX-16.

## 8.5 Rework Disposition

- 8.5.1 Rework is normally defined as the reworking of a weld or base metal to an acceptable condition in accordance with the applicable Code and specification requirements.

- 8.5.2 Upon receipt of an approved ECR dispositioned "Rework", the QA Manager shall forward a copy of the ECR to the Field Engineer for comment of rework activities.

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- A. When rework activities involve a changed or new Special Process requirement, UE&C shall initiate Field Drawing revision(s)/ECA(s); and new or revised Process Sheets shall be prepared per Project Procedures III-4 and VI-5. Work may commence when the required documents are prepared, approved and received by the Field Engineer.

## 8.6 Use-As-Is Disposition (Synonymous with Accept-As-Is)

- 8.6.1 "Use-as-is" is normally defined as the acceptance of a deviation when it can be established that the discrepancy will result in no adverse condition and the item will meet Code and Design Specification requirements.

- 8.6.2 Upon receipt of an approved ECR dispositioned "Use-As-Is" the QA Manager, or his designee, will arrange for removal of the Hold Tag.





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## 9.0 FORMAL DISPOSITIONING/APPROVAL OF ECR'S

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9.1 All Major ECR's shall be reviewed, dispositioned and approved by GELC as outlined in 10.0 below.

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9.2 All Minor ECR's shall be reviewed, dispositioned and approved by the Chief field Engineer as outlined in 10.0 below.

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9.3 Disposition of all ECR's shall be reviewed by the QA Manager, or his designee, and the ANI. This review will be performed and documented during the review and approval cycle of required Process Sheets per Project Procedure VI-5.

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9.3.1 ANI Review is not required for Non-Code Safety Related ECR's.

## 10.0 APPROVED ECR (INTERIM ACTION/WORKING TOWARD FORMAL DISPOSITION OF ECR)

10.1 A formal disposition (approved) form shall be required for each Major ECR and from the Chief field Engineer for each Minor ECR. The disposition of the ECR shall be reviewed and approved by the QA Manager, or his designee, and the ANI. This review will be performed and documented during the review and approval cycle of required Process Sheets per Project Procedure VI-5.

10.2 Interim action may require disposition of the ECR. The QA Manager, or his designee, shall aid in making final disposition. The QA Manager, or his designee, shall also be responsible for any documentation requirements.

10.3 Receipt of interim action or an approved ECR disposition shall be controlled through the EC log.

10.4 Upon receipt of interim action and/or an approved ECR disposition involving repair or rework, QA-ECR shall notify the QC department that rework/repair/other activity may be invoked through the timely application of a Repair Tag (Appendix K).

10.5 The responsible QC Inspector shall obtain a QA/QC Repair Tag from the QA Supervisor, or his designee, who controls their issuance through maintenance of an EC Log.

A. Prior to issuing the tag, the QA Supervisor, or his designee, shall complete the top portion of the Repair Tag and record the necessary information in the EC Log.





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3. Work cannot proceed until an ECR is approved (except by LWA), and, when applicable, a Field Drawing revision or VCA is initiated (see Paragraphs 5.4.2.2 and 5.5.2.1). A Repair Tag shall be applied to the item in a timely manner prior to the start of work.

10.6 After completing the bottom of the Repair Tag (by signing and dating) the responsible QC Inspector shall remove the previously applicable Hold Tag and apply the QA/QC Repair Tag in its place. The Hold Tag shall be returned to the authorized individual maintaining the EC Log as required in Pullman Procedure IV-4, Paragraph 5.0.

10.7 Upon satisfactory completion and follow-up inspection of the activities required to fulfill the disposition which invoked the QA/QC Repair Tag, the responsible QC Inspector shall remove and forward the QA/QC Repair Tag to the QA Supervisor, or his designee, so that the EC Log may be updated. After the log has been updated, the Repair Tag may be destroyed.

4. The Inspector removing the QA/QC Repair Tag shall himself check any other actions required by the ECR. If they have been performed and verified.

## 11.0 DOCUMENTING

1/17/84

11.1 The QA Manager, or his designee, shall be responsible for the control of nonconformances. Through the use of the EC Log, he will assign ECR numbers. This log will also contain such information as date initiated, brief description of the nonconformance, ECR classification (Major or Minor), Hold Tags applicable, Repair Tags applicable, and status information. ECR's shall clearly identify the official building abbreviation and unit designation. (Appendix A, pages 3 thru 5).

1/17/84

11.2 Upon approval of an ECR by VEC or Chief Field Engineer as applicable, the QA Manager, or designee, shall retain a copy in QA Records, and forward copies to the Chief Field Engineer and the Construction Superintendent.

11.3 When the disposition actions are completed and properly documented, QA Records will document these actions by completing line 013 of the ECR.

## 12.0 RECORDS

12.1 Records of all nonconformances and their disposition shall be maintained under the supervision of the QA Manager. ECR's shall be easily retrievable for review.



# Pullman Power Products

EV-2

DOCUMENT NO.

PREPARED BY: E. EATKIN

APPROVED BY: B. HINKLEY

EDR

ISSUED DATE: 2/14/83

SEABROOK  
PROJECT PROCEDURE

TO BE USED  
ONLY ON JOBS

7035

PAGE  
NO. 14 of 15

12.1.1 In the cases where disposition is to "Scrap", all records associated with the scrapped item shall be properly noted as to disposition and retained.

12.1.2 In all cases where "Return" for replacement is decided, the records shall be returned with the item.

12.2 A copy of each Minor ECR shall be forwarded to UELC Disposition Change Coordinator (DECC) upon disposition by the Chief Field Engineer and QA Manager concurrence, per paragraph 8.1.

12.3 Upon completion of all work required by the disposition, a copy of each Major and Minor ECR shall be forwarded to UELC DECC.

## 13.0 VOIDING NONCONFORMANCE REPORTS

13.1 If it becomes necessary to void an ECR, it shall be voided only by the QA Manager, or his designee. The reason for voiding shall be identified on (or attached to) the ECR, along with the QA Manager (or designee) signature and date.

13.2 Concurrence with the action shall be obtained from the Chief Field Engineer (or designee) and the AFI only when their previous review and signature had been obtained (per paragraph 7.7). Concurrence shall be documented by signing and dating the voided ECR.

13.3 ECR's voided prior to transmittal to UELC shall not be transmitted to UELC. They will, however, be advised of this action by interoffice correspondence to account for the sequential ECR numbers. ECR's transmitted to UELC and subsequently voided, either prior to or after disposition (approval), shall be resubmitted to UELC as supplemental information.

13.4 The initiator of an ECR which is subsequently voided shall be verbally advised of the action, and upon his request, may receive an information copy of the voided ECR.

13.5 Voided ECR's containing the information specified in paragraphs 13.1 and 13.2 above, shall be retained as permanent records.

13.6 The QA-ECR shall ensure that any hold, LMA and/or Repair Tag, issued as a result of a voided ECR, are removed.





# Pullman Power Products

IV-2

DOCUMENT NO

PREPARED BY: E. SMITH

APPROVED BY: R. HINKLEY

EDS

DATE: 2/16/83

SLABROCK  
PROJECT PROCEDURE

TO BE USED  
ONLY ON JOBS 7035

PAGE  
NO. 15 of 15

1/17/84

13.7 NCR control numbers are assigned upon initial reporting of suspected nonconforming conditions. After further evaluation, the originator may determine the condition does not be nonconforming and may require reporting as an NCR. In such cases, the originator will notify QA and so forth. If conditions (see paragraph 13.2) are determined to be in the NCR control number may be removed from the NCR list. Control numbers are not considered "closed" until the NCR is closed and the control numbers may be removed.

## 14.0 REVIEW AND RECURRENCE PREVENTION

1/17/84

14.1 The QA Manager, or his designee, shall initiate and record on all Major and Minor NCR's the necessary steps to prevent recurrence of each nonconformity.

14.1.1 Where steps to prevent recurrence have not been taken in a timely manner or were not effective, the QA Manager, or his designee, may require the corrective action process by issuing a Corrective Action Order in accordance with Procedure IVI-3.

14.1.2 In order to eliminate the recurrence of nonconformities, the QA Manager shall evaluate NCR's in accordance with the NCR Process and the NCR Analysis, IVI-3.





# Pullman Power Products

SP-2

PROPERTY NO.

ISSUED 2/16/83

DEVELOPED BY: E. WISSE

APPROVED BY: E. KIMLEY

NO.

STANDARD  
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TO BE USED  
ONLY ON JOB # 7035

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NO.


APPENDIX A  
1 of 7

1/17/84

## INSTRUCTIONS FOR COMPLETING ECR FORM

- Enter Pullman ISO(s) effected and line(s) effected.
- Enter ECR Classification (Major or Minor).
- Enter Boundary Identification Package (BIP).
- ECR NO: Pullman Job No. (7035) and Control Number (i.e. 2295).
- Rev No: Initial issue is 0 with revisions to same ECR numbered in consecutive order.
- Sheets: ECR is sheet 1. Enter total number of sheets included in "of" box. All attachments should be identified by sheet number and total number of sheets.
- Item Identification: Enter item identification number of item involved in work. This number should be the same as the number on the item. It should only be used for items that are not identified by a tag.
- Item Name: Generic name of item (identification number, field code, pump, support).
- Quantity: Number of items involved in 1d.
- Blank: Used to identify code used for installation and/or supply.
- Name: Originator of ECR.
- Initials: Initials of 2a. (Optional - Not required)
- Organization: Organization originating ECR. For our application at Sandbrook Pullman Power Products.
- Date: Date of origination.
- Source: Name of company/department supplying the item.
- Current Status: Status of item in construction process and field tag number.
- Location: Location of item at time of writing ECR, including building, room, elevation, column, azimuth, as applicable.

SF 1.01A (07-81)

 <b>Pullman Power Products</b>		<b>EV-2</b> DOCUMENT NO.
PREPARED BY: <b>L. BISHOP</b>	APPROVED BY: <b>R. BIRLEY</b>	DATE: <b>2/16/83</b>
<b>SLASHBOOK PROJECT PROCEDURE</b>	TO BE USED ON: <b>JOE 7035</b>	PAGE <b>APPENDIX A</b> NO. <b>2 of 7</b>

- 4a) Name: Name of company/department who will be responsible for nonconformance
- 4b) Spec. No: UELC purchase order specification involved in nonconformance (i.e., 268-31 - Pipe and Equipment Erection).
- 4c) Rev: Latest revision of the specification in effect at writing of NCR.

5a) Possible Significance: NA - Not identified as being under other rule; Part 21 - Can be reportable safety hazard per 10 CFR 21; 50.55e - pertaining to 10 CFR 50.55e.

5b) "T" for equipment/material supply NCR; "I" for installation; "P" for a QA Program.

6a) Governing Requirements: Specific documents, procedures, specifications, codes, drawing, diagrams, special instructions used for acceptance standards.

7a) Nonconformance Code: Code per Appendix B.

7b) Description giving details of nonconformance and status. Provide a clear, concise description of the nonconforming condition detailed adequately to facilitate formulation of a disposition and resolution of the nonconformance. Include drawings, sketches, photographs, examination reports, etc., as appropriate to describe the condition thoroughly. If this is not practical, a statement to that effect and the supportive reasoning shall be included in the description portion of the report.

1/17/84 8a) Cause Code: Code per Appendix C.

8b) Description of cause of nonconformance.

8c) Proposed disposition type.

9b) Justification: Detailed proposed disposition or a statement why such was not included. The Field Engineering Department, in conjunction with the Field QA Department, shall provide the technical content of all proposed dispositions. Nontechnical content of disposition, if applicable, shall be originated by Pullman Project Management. If in the opinion of the Chief Field Engineer it is not practical to provide a technical proposed disposition, then the circumstances making that proposal impractical shall be clearly stated in this section.

10a) QA description in detail of corrective measures taken or to be taken to prevent recurrence of nonconformance.





# Pullman Power Products

IV-2

DOCUMENT NO

PREPARED BY: E. SWISHER

APPROVED BY: E. HINLEY

EDS

ISSUE  
DATE:

2/14/83

SEABROCK  
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TO BE USED  
ONLY ON JOB #

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10b) Stamp of Customer/Owner's nonconformance board and its disposition of NCR.

11a) Signature and date of authorized representative of Field Engineering Department.

11b) Signature and date of Field QA Department.

1/17/84 11c) Signature of Authorized Nuclear Inspector.

11d) Date signed by ANI (11c)

1/17/84 12) For Major NCR's check "YES" and Review Board Approval shall be by UL&C. Decision (Accept/Reject) to be indicated by UL&C. For Minor NCR's check "No" and Engineer/QA/QC approval is not applicable.

13) Disposition Verified - Authorized QA Representative will verify that complete disposition has been completed on NCR.



# Pullman Power Products

SP-2

DESIGNED BY: E. WITMER

APPROVED BY: E. WITMER

JPL

REVISION NO.  
1/18/81  
DATE: 2/16/83

REASONS  
PROJECT PROCEDURE

TO BE USED  
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## LIST OF SYSTEM ABBREVIATIONS (From DEAC DAC R-500006)

### ABBREVIATION

### SYSTEM

AD	Air Drying
AE	Air Enrichment
AT	Air Treatment
AN	Argon Nitrogen
AR	Argon
AS	Condenser Air Evacuation
AS	Auxiliary Steam
ASC	Auxiliary Steam Condensate
ASH	Auxiliary Steam Heating
BS	Boron Recovery System
BW	Building Water Return
	—Guardhouse Boat Pump
BWS	Building Water Supply
CAS	Chemical Analysis & Addition System
CAE	Containment Air Handling
CAP	Containment Air Purge
CAS	Control Bldg. Air Handling
CAS	Containment Bldg. Spray
CC	Component Cooling Water Primary
CCW	Condenser Water
CC	Carbon Dioxide (ALL PLANT USAGE)
CC	Combustible Gas Control
CCW	Chilled Cooling Water
CCW	Chlorination Building H & V
CCW	Condensate
CCW	Containment Line Purge
CCW	Rad Control & Position
CCW	Check Point Air Cond. System
CCW	Chlorination System
CCW	Chemical & Volume Control
CCW	Chemical Treatment & Test Chemistry
CCW	Circulating Water
CCW	Oil Pump Room Air Handling
CCW	Compressed Gases (ALL EXCEPT H <sub>2</sub> , N <sub>2</sub> , CO <sub>2</sub> )
CCW	Contaminated Waste Vent
CCW	Contaminated Waste





# Pullman Power Products

IV-2

DOCUMENT NO.

PREPARED BY: E. SWISHER

APPROVED BY: R. BINKLEY

DATE

1980  
2/16/83STANDARD  
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DC	Diesel Generator (ALL SYSTEMS)
DGA	Diesel Gen. 1A (EQUIP. PLS.)
DGB	Diesel Gen. 1B (EQUIP. PLS.)
DAB	Diesel Generator Air Handling
DF	Drains Floor
DB	Demineralised Water
DR	Drains Roof
DS	Drains Sanitary
LAE	Containment Enclosure Air Handling
ED	Electrical Distribution
EDI	Electrical Distribution - EMERGENCY
ENC	Turbine Electro Hydraulic System
EPH	Emergency Pumps Air Handling
ES	Electrical Systems
EX	Extraction Steam
VAB	Fuel Storage Bldg. Air Handling
FO	Fuel Handling - Reactor
FO	Fuel Oil
FP	Fire Protection
FPA	Fire Pumphouse Air Handling
FYA	Elect. Tunnel Air Handling
FW	Feedwater (INCL. CPC)
GAH	Gas Room Air Handling
GSC	Generator Stator Coolant
HD	Header Drains
HL	Helium
HY	Hydraulic Fluid for HEC
HT	Heat Tracing
HGC	Hydrogen Gas at Generator
HGD	G.E. Turbine Hydrogen Seal Oil Drain
HWR	Hot Water Heating Return
HWS	Hot Water Heating Supply
IA	Instrument Air
IC	In-core Instrumentation
IE	Isobutane - Helium
LO	Lube Oil (ALL APPLICATIONS INCL. PURIFICATION)
LD	Leak Detection System
MAP	Makeup Gas
MC	Moisture Sep. & Leachwater Drains
MS	Miscellaneous (NOT SYS. CRITICAL) Equip.
MS	Main Steam (INCL. TURB. BYPASS STEAM)
MS	Mechanical Seal Supply
MS	Main Steam Drains
MVD	Miscellaneous Vents - Drains



# Pullman Power Products

TV-2

DOCUMENT NO

PREPARED BY: E. WISEB

APPROVED BY: E. HICKLEY

DATE

2/16/83

SLASHBOOK  
PROJECT PROCEDURETO BE USED  
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NC	Nitrogen Gas
NI	Nuclear Instrumentation
NI	Nuclear Inside
TC	Thermal Control
PAH	Plant Air Handling
PAH	Plant Air Handling Monitoring
PP	Propane
PW	Potable Water - CITY WATER
PWH	Potable Water - HOT
PWR	Potable Water - RECIRCULATING
EC	Reactor Coolant
ER	Reactor Heat Removal
EM	Radiation Monitoring
EW	Reactor Make-Up Water
ES	Reactor Sluicing
SA	Service Air Systems
SAA	Service Air C-4A (EQUIP. PEG.)
SAB	Service Air C-4B (EQUIP. PEG.)
SAC	Service Air C-1A (EQUIP. PEG.)
SAD	Service Air C-1B (EQUIP. PEG.)
SAE	Service Air C-1C (EQUIP. PEG.)
SAU	Sanitary Sewer
SG	Steam Generator Blowdown
SC	Station Info. & Alarm Computer
SCC	Secondary Component Cooling
SCW	Screen Wash Water
SP	Spent Fuel Pool Cooling
SGA	Non-Essential Switchgear Air Handling
SI	Safety Injection
SO	Seal Oil-Generator
LPC	Low Power Communications
ST	Switchyard
SM	Seismic Monitoring System
SS	Sample System
SSS	Turbine Steam Seal System
STO	Storm Sewer
SW	Service Water
SWA	SW Pump House Air Handling
TAB	Turbine Bldg. Air Handling
TDA	SGPP Turbine Drive A (EQUIP. PEG.)
TDB	SGPP Turbine Drive B (EQUIP. PEG.)
TE	Turbine Generator
TPC	Telephone Communications
TSI	Turb. Supervisory Instrumentation





# Pullman Power Products

IV-2

DOCUMENT NO

PREPARED BY: R. SWISHER

APPROVED BY: B. HIRLEY

EDR

ISSUE DATE: 2/14/83

SEARBOOK  
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PAGE APPENDIX B  
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## NONCONFORMANCE CODE

### PREFIX DIGITS

1. Plant  
2. Job  
3. Project  
4. Vendor

### SUFFIX DIGITS

- |   |                                    |
|---|------------------------------------|
| 01 Unacceptable Fit-up                                | 08 Unacceptable Materials - Vendor |
| 011 Misalignment/Out of Plumb                         | 081 Damaged                        |
| 012 Counterbore                                       | 082 Missing/Incomplete             |
| 013 End Preparation                                   | 083 Inadequate Documentation       |
| 014 Transitions                                       | 084 Cleanliness                    |
| 015 Gap   | 085 Dimensions                     |
| 016 Socket Weld Pullback                              | 086 Ident./Tagging                 |
| 02 Unacceptable Welds                                 | 09 Unacceptable Materials - After  |
| 021 Interpass/Post/Pre-Heating                        | 091 Damaged Receipt                |
| 022 Surface/Radial Shrinkage                          | 092 Missing/Incomplete             |
| 023 Root  | 093 Inadequate Documentation       |
| 024 Insert  | 094 Cleanliness                    |
| 025 Backing Ring                                      | 095 Indications                    |
| 026 Size  | 10 Unacceptable Process Control    |
| 03 Unacceptable Dimensions                            | 101 By-Passed Hold Points          |
| 031 As Installed/Out of Plumb/<br>Rilti Edge Distance | 102 Inadequate Documentation       |
| 032 As Received                                       | Unacceptable Test                  |



# Pullman Power Products

EV-2

DOCUMENT NO.

PREPARED BY: R. SOTER

APPROVED BY: R. SIKELLY

EDE

18851 2/16/83

SLABROCK  
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ONLY ON JOBS 2035PAGE APPENDIX B  
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## SUFFIX DIGITS (Continued)

- 04 Unacceptable Grinding/Finishing  
041 Upon Receipt  
042 After Receipt  
043 After Installation
- 05 Unacceptable Mechanical Operations:  
051 Grinding  
052 Cutting  
053 Torquing  
054 Machining  
055 Drilling  
056 Threading
- 06 Unacceptable Storage
- 07 Unacceptable Handling
- 15 Uncertified Personnel  
151 Craft  
152 QA/QC
- 16 Procedure/Specification/Manual Discrepancy  
161 Conflicts with Spec.  
162 Conflicts with Manual
- 17 Drawing Discrepancy  
171 ISO Conflicts with UELC Design Drawing  
172 Inaccurate ISO  
173 Design Documents
- 14 Unacceptable MTE  
141 Not Calibrated  
142 Recalibration Overdue  
143 Unidentifiable  
144 Damaged





# Pullman Power Products

SV-2

DOCUMENT NO.

PREPARED BY: K. SWISHER

APPROVED BY: E. WINKLEY

FOR

ISSUE

DATE: 2/14/83

SEABROOK  
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## CAUSE CODES

1	Craft	3	Quality Control	5	Others
2	Engineering	4	Quality Assurance	6	Indeterminate
01	Workmanship				
02	Carelessness				
03	Inadequate Training				
04	Inadequate/Inadequate Plans				
05	Improper Supervision				
06	Inadequate/Incorrect MTE				
07	Out of Calibration MTE				
08	Procedure - Wrong Revision				
09	Procedure - Inadequate Implementation				
10	Procedure - Insufficient Requirements/Edits			Edge	Distance
11	Procedure/Drawing Conflict				
12	Drawing - Wrong Revision				
13	Drawing - Misinterpretation				
14	Drawing - Incorrect Bill of Material				
15	Inadequate Review/Verification				
16	Inadequate Status Control				
17	Equipment Malfunction				
18	Environmental				
19	Mishandling				



# Pullman Power Products

IV-2

DOCUMENT NO.

PREPARED BY: R.G. DAVIS

APPROVED BY: H.D. HINKLEY

NOV

2/14/83

SEABROOK  
PROJECT PROCEDURE

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(A)		(B)	
PULLMAN POWER PRODUCTS		NOTICE OF PERFORMANCE REPORT	
FORM NO. 100-100-100		REV. 100-100-100	
1	(1a)	(1b)	(1c)
2	(2a)	(2b)	(2c)
3	(3a)	(3b)	(3c)
4	(4a)	(4b)	(4c)
5	(5a)	(5b)	(5c)
6	(6a)	(6b)	(6c)
7	(7a)	(7b)	(7c)
8	(8a)	(8b)	(8c)
9	(9a)	(9b)	(9c)
10	(10a)	(10b)	(10c)
11	(11a)	(11b)	(11c)
12	(12a)	(12b)	(12c)
13	(13a)	(13b)	(13c)
14	(14a)	(14b)	(14c)
15	(15a)	(15b)	(15c)
16	(16a)	(16b)	(16c)
17	(17a)	(17b)	(17c)
18	(18a)	(18b)	(18c)
19	(19a)	(19b)	(19c)
20	(20a)	(20b)	(20c)
21	(21a)	(21b)	(21c)
22	(22a)	(22b)	(22c)
23	(23a)	(23b)	(23c)
24	(24a)	(24b)	(24c)
25	(25a)	(25b)	(25c)
26	(26a)	(26b)	(26c)
27	(27a)	(27b)	(27c)
28	(28a)	(28b)	(28c)
29	(29a)	(29b)	(29c)
30	(30a)	(30b)	(30c)
31	(31a)	(31b)	(31c)
32	(32a)	(32b)	(32c)
33	(33a)	(33b)	(33c)
34	(34a)	(34b)	(34c)
35	(35a)	(35b)	(35c)
36	(36a)	(36b)	(36c)
37	(37a)	(37b)	(37c)
38	(38a)	(38b)	(38c)
39	(39a)	(39b)	(39c)
40	(40a)	(40b)	(40c)
41	(41a)	(41b)	(41c)
42	(42a)	(42b)	(42c)
43	(43a)	(43b)	(43c)
44	(44a)	(44b)	(44c)
45	(45a)	(45b)	(45c)
46	(46a)	(46b)	(46c)
47	(47a)	(47b)	(47c)
48	(48a)	(48b)	(48c)
49	(49a)	(49b)	(49c)
50	(50a)	(50b)	(50c)
51	(51a)	(51b)	(51c)
52	(52a)	(52b)	(52c)
53	(53a)	(53b)	(53c)
54	(54a)	(54b)	(54c)
55	(55a)	(55b)	(55c)
56	(56a)	(56b)	(56c)
57	(57a)	(57b)	(57c)
58	(58a)	(58b)	(58c)
59	(59a)	(59b)	(59c)
60	(60a)	(60b)	(60c)
61	(61a)	(61b)	(61c)
62	(62a)	(62b)	(62c)
63	(63a)	(63b)	(63c)
64	(64a)	(64b)	(64c)
65	(65a)	(65b)	(65c)
66	(66a)	(66b)	(66c)
67	(67a)	(67b)	(67c)
68	(68a)	(68b)	(68c)
69	(69a)	(69b)	(69c)
70	(70a)	(70b)	(70c)
71	(71a)	(71b)	(71c)
72	(72a)	(72b)	(72c)
73	(73a)	(73b)	(73c)
74	(74a)	(74b)	(74c)
75	(75a)	(75b)	(75c)
76	(76a)	(76b)	(76c)
77	(77a)	(77b)	(77c)
78	(78a)	(78b)	(78c)
79	(79a)	(79b)	(79c)
80	(80a)	(80b)	(80c)
81	(81a)	(81b)	(81c)
82	(82a)	(82b)	(82c)
83	(83a)	(83b)	(83c)
84	(84a)	(84b)	(84c)
85	(85a)	(85b)	(85c)
86	(86a)	(86b)	(86c)
87	(87a)	(87b)	(87c)
88	(88a)	(88b)	(88c)
89	(89a)	(89b)	(89c)
90	(90a)	(90b)	(90c)
91	(91a)	(91b)	(91c)
92	(92a)	(92b)	(92c)
93	(93a)	(93b)	(93c)
94	(94a)	(94b)	(94c)
95	(95a)	(95b)	(95c)
96	(96a)	(96b)	(96c)
97	(97a)	(97b)	(97c)
98	(98a)	(98b)	(98c)
99	(99a)	(99b)	(99c)
100	(100a)	(100b)	(100c)







7-2

DOCUMENT NO.

10004412 BY: R.C. DAVIS

APPROVED BY: F.D. HINGLET

2/14/82

SLABROOK  
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340 1011/11/911

SF 1.01A (07-01)





# Pullman Power Products

IV-2

DOCUMENT 160

PREPARED BY: R.G. DAVIS

APPROVED BY: E.D. KIMBLEY

DATE: 2/14/83

SEABROOK  
PROJECT PROCEDURE

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07-81-12

JOB NO. 7036 P.D. 201  
ITEM NO. N218 SERIAL NO. K-1246

## HOLD

NO. 3512

DATE 2/17/83

- ☐ HOLD FOR INSPECTION
- ☒ WAIT FOR TEST REPORT
- ☐ WAIT FOR - NCR - REPORT
- ☐ RETURN TO VENDOR
- ☐ WAIT FOR ENGINEERING SPEC OR DRAWING CLARIFICATION
- ☐ \_\_\_\_\_


INSPECTED BY J. Guilford



### DISPOSITION

Remain in Hold until reports  
are received and approved

3512 - N/A

SEP-36 (2/17/83)

 Pullman Power Products		EV-2
PREPARED BY: R.G. DAVIS	APPROVED BY: E.D. HINLEY	DOCUMENT NO. 2/16/83
SEABROOK PROJECT PROCEDURAL	TO BE USED ONLY ON JOB # 7035	PAGE NO. APPENDIX B 1 of 1

 PULLMAN POWER PRODUCTS SEABROOK STATION
LIMITED WORK AUTHORIZATION
# <u>001</u>
ITEM IDENTIFICATION
<u>SW-181001</u>
<u>Span 2 sec 25.316</u>
 SECRET OF LWA
<u>To Complete Field</u>
<u>Work 70106</u>
<u>DATE 5-27</u>
QA INSP <u>7/1/83</u> DATE 5-27
TO BE ATTACHED OR REMOVED BY QC PERSONNEL ONLY

887-50 (1-13-83)

(COLOR-YELLOW)





27-2

DOCUMENT NO

PREPARED BY: R.G. DAVIS

APPROVED BY: H.D. HINCHLEY

0076 2/16/82

# SLABROOK PROJECT PROCEDURE

TO BE USED  
ONLY ON JOD. 7035

PAGE      ATTACHED :  
NO.      1 of 1.

002-210-0000

10-657-0000

• 2007

**• 2006-07-08**

2000

911-552 (7-17-83)



# Pullman Power Products

TV-2

PROJECT NO.

2/16/83

PREPARED BY: E.G. RAYNE

APPROVED BY: E.D. HINCHLEY

JRM

STANDARD

PROJECT PROCEDURE

TO BE USED  
ONLY ON JOB # 7035PAGE APPENDIX  
NO. 1 of 1REVISIONS ONLY  
DATE  
BY

## Pullman Power Products

STANDARD

PROJECT NO. 7035

DATE  
BY

A. ITEM(S) NAME/IDENTITY (INCLUDE THIS, OTHER, 100/100, AS APPLICABLE)

IDENTITY NAME IS FOR THE

ITEM NO. 07001

Location/Reference Report (R/R)

Availability Report (R/R)

Receiving "R/R" Location Report

B. NAME FOR THE REPORT

C. SCOPE OF WORK WHICH WILL BE PERFORMED (INCLUDE SPECIFIC PHASES HERE(S) AND OPERATIONS TO BE PERFORMED AND TO THE "TEST" AND "T" RPT LOCATION)

Signature of Field Engineer

D. STATE OF WORK HAS BEEN REVIEWED INCLUDING ALL DOCUMENTATION RELATIVE TO THE TAX AND LSA IS APPROVED. INSPECTION AND WORK SHALL BE IN IT-PASSING AND WORK SHALL BE PROGRESS. REVIEW THE FOLLOWING POINTS/PHASES ACCORDING TO THE(S):

LRA REVIEW FOR THE FOLLOWING PHASES:

☐ Approved  
☐ Disapproved  
☐ Approved  
☐ Disapproved  
☐ Approved  
☐ Disapproved

Chief Engineer

Field Engineer

Work Engineer

All Review

Date

Date

Date

Date

E. LRA CLASS IF FULL PERFORMANCE OF WORK SCOPE. THIS FOR LRA TERMINATE IF REPORT OF R/R. THE LAST ELEMENT OF WORK SCOPE COMPLETED

X INSPECTION REPORTING LRA IS

CLASS IF IN OFFICE

Signature

Signature

DATE

DATE





Pullman Power Products

REV. 5

DOCUMENT NO.

PREPARED BY: B.C. DAVIS

APPROVED BY: S.D. HINLEY

DATE

2/16/83

SEABROOK  
PROJECT PROCEDURE

TO BE USED  
ONLY ON JOB # 7033

PAGE APPENDIX B  
NO. 1 of 1

PULLMAN POWER PRODUCTS

SEABROOK STATION JOB 7033

QA/QC REPAIR

TAG # 15

☐

REWORK

☒

REPAIR

☐

OTHER ACTIVITY

APPLICABLE FOR  
JOB NO. 7033 ONLY

**SAMPLE**

NCR # 753

HOLD TAG # 1015

REMARKS

REPAIR BRINE PIPING 4-11-83

QA/QC INSPECTOR

[Signature]

DATE APPLIED

2/16/83

557-37 (1-12-83)

(COLOR-PLATE)



# Pullman Power Products

IV-2

DOCUMENT NO.

PREPARED BY: E. SATSHER

APPROVED BY: E. HINKLEY

DATE

2/16/83

SEABROOK  
PROJECT PROCEDURETO BE USED  
ONLY ON JOBS 7015PAGE  
NO. 1 of 9

## STANDARD REPAIR SPECIFICATION No. 1

for

Cement Lining Repair

### BACKGROUND

Selected classes of prefabricated piping contain a cement lining which may become damaged during construction activities. The repair of their lining may be conducted in accordance with this specification.

### DESCRIPTION OF THE CONDITION TO BE REPAIRED

Cement lining has cracks which exceed specification allowances ( $1/32"$ ), is loosened, missing or otherwise damaged or which in the contractor's judgement is not sound. Use of this specification is limited to areas less than the full circumference of the pipe for a length along the pipe equal to 3 pipe diameters. Larger areas requiring repair shall be documented by nonconformance report.

### STANDARD REPAIR CRITERIA

Single cracks up to  $1/16"$  in width wherein cement lining appears to be tightly bonded to pipe may be accepted as-is.

Cement lining containing cracks wherein the lining appears not to be tightly bonded to the pipe shall be removed as required and shall be replaced by application of Sikader Low-mod gel. Sikader gel to be applied in accordance with the requirements of Pullman Procedure IX-30 (PP-42268) reflecting the requirements of Spec. 348-51. Interior finish of cement lining to be blended smoothly with the contour of existing cement lining.

Following completion of cement lining repair, conduct a visual inspection utilizing the inspection check list for cement lining and grouting as contained in the referenced procedure.

Record the location and extent of repairs on documents to be submitted to US&C Construction Manager for record purposes.

### TECHNICAL JUSTIFICATION

Acceptance of cracks up to  $1/16"$  does not violate manufacturer's recommendation. Cracking in excess of specification tolerances is possible due to the extension of long term storage period beyond anticipated 6 months.

• REF: ECA # 19/0232





# Pullman Power Products

SV-2

DOCUMENT NO

DESIGNED BY: R. SWISHER

APPROVED BY: E. HICKLEY

ISSUE DATE: 2/14/83

SEABOOR  
PROJECT PROCEDURE

TO BE USED  
ONLY ON JOBS: 7035

PAGE APPENDIX L  
NO 2 of 9

Repair of cement lining is required to obtain tightly adhering bond between pipe and lining to preclude subsequent lining failure.

Repair is accordance with approved procedure and shall be done in accordance with the system design criteria.



# Pullman Power Products

IV-2

DOCUMENT NO.

PREPARED BY: E. SUTSKER

APPROVED BY: H. KIRLEY

DATE: 2/16/83

SEABROOK  
PROJECT PROCEDURETO BE USED  
ONLY ON JOB # 7035PAGE  
NO. APPENDIX 1  
3 of 9

## STANDARD REPAIR SPECIFICATION NO. 2

for

TRANSITION ANGLES OF TRANSITION

### BACKGROUND

The piping fabricator is permitted to perform a "skin cut" counterboring operation on end preparations which otherwise do not require a counterbore but because of minor ovality in the pipe, the end prep land cannot be satisfactorily applied. "Skin cutting" of this nature was not recognized by project specifications prior to the issuance of ECA 19/0199A and selected pipe spools may arrive onsite with end preps containing the "skin cut" when it is not called for by the end prep detail drawings. This type of apparently improper end prep shall be repaired in accordance with this specification. Also the pipe fabricator on occasion has not conformed to DMC. 3000-F-1382 for transition angles.

### DESCRIPTION OF THE CONDITION TO BE REPAIRED

Undocumented presence of a counterbore where not called for by end preparation details. Counterbores usually contain a sharp transition to nominal pipe inside diameter which violates code thickness transition criteria. Or, counter-bore transition did not conform to DMC. 3000-F-1382 or applicable code.

### STANDARD REPAIR CRITERIA

Installing contractor shall confirm that the end preparation, other than the counterbore is acceptable. The counterbore may be left as-is but the transition to the nominal pipe I.D. shall be ground as required to meet applicable code requirements for transitions. Care shall be taken to preclude injury to the pressure boundary. No appreciable reduction of wall thickness is permitted.


Following grinding, the affected area shall be examined visually, and by suitable surface exam technique (MT or LP). A wall thickness measurement shall be conducted where visual exam reveals potential wall thinning. Wall thickness loss then to as shown in DMC. 3000-F-1382 shall be reported via nonconformance report.

### TECHNICAL JUSTIFICATION

The existence of transition angles which do not comply with DMC. 3000-F-1382 are not injurious provided it complies with code requirements for transition angles. Repair as described herein accomplishes code compliance without jeopardizing material quality or system design criteria.

\*REF: ECA 19/0232



 <b>Pullman Power Products</b>		<b>EP-2</b> DOCUMENT NO.
PREPARED BY: <b>E. ENGLISH</b>	APPROVED BY: <b>E. ENGLISH</b>	DATE: <b>2/16/83</b>
<b>SEABROCK PROJECT PROCEDURE</b>	TO BE USED ONLY ON JOBS: <b>7035</b>	PAGE NO. <b>APPENDIX 1 6 of 9</b>

### STANDARD REPAIR SPECIFICATION NO. 3

for

### DAMAGED EXTERNAL COATING & WRAPPING \*

#### BACKGROUND

The external coating and wrapping on pipe received on site may become damaged due to shipping, handling or storage operations. The repair of damaged coating and wrapping shall be conducted in the field in accordance with the requirements specified herein.

#### DESCRIPTION OF THE CONDITION TO BE REPAIRED

Visible damage to external coating & wrapping, or its failure to pass electrical holiday detector examination. Where damage to the coating is contiguous with damage to the pipe pressure boundary, the pipe condition shall be reported and repaired in accordance with a contractor nonconformance report prior to commencing and coating repairs.

#### STANDARD REPAIR CRITERIA


Field repairs to external coating and wrapping shall be conducted in accordance with approved procedures reflecting the requirements of article 3.3.3 of specification 9763-248-51.

As an alternate, field repairs may be conducted in accordance with approved contractor procedures for application of hot-applied tape coatings such as Tapeset 20 or engineer approved equal.

#### TECHNICAL JUSTIFICATION

Sound external coating and wrapping is required for proper corrosion protection of pipe pressure boundary. Repair in accordance with approved procedures does not jeopardize material quality or system design criteria.

REF: ECA 19/0232

 <b>Pullman Power Products</b>		FP-2
PREPARED BY: E. A. LORRA	APPROVED BY: E. A. LORRA	DATE: 3/16/83
SLABROCK PROJECT PROCEDURE	TO BE USED ONLY ON JOBS 7035	PAGE NO. APPENDIX 1 5 of 9

### STANDARD REPAIR SPECIFICATION NO. 4

for

### MINOR DAMAGE TO PIPE WELD END PREPARATIONS \*

#### BACKGROUND

Due to some manufacturing processes as well as handling and shipping, pipe weld end preparations may be received on site with minor end preparation damage. In certain cases, the damage may be inconsequential enough so as not to jeopardize base or weld material or impair joint fit-up and weld not provided a single repair is performed. In these instances, repair may be made and welding continued in accordance with the criteria of this specification.

#### DESCRIPTION OF THE CONDITION TO BE REPAIRED

Any damage to a pipe weld end preparation which can be accommodated by the welding operator without appreciable additional risk to the successful completion of the weld. Mild grinding may be used but weld repair is prohibited (except to replace backing rings).

Examples of these conditions are:


- a. Machined end preparation which is out of round because the fabrication process clamped the pipe during machining.
- b. A small irregularity in the machined area which does not require weld repair.
- c. Inefficient counterbore length.
- d. A bent backing ring which can be straightened without weld repair or which can be replaced.
- e. Blend grind performed on counterbore transitions for the purpose of achieving the required code counterbore.

#### STANDARD REPAIR CRITERIA

Normal fit-up clamps may be used to round out end preparation to achieve fit-up. Excessive force (resulting in permanent deformation of backing ring or distortion of the pipe) and hydraulic jacking are prohibited.

\* REF: ECA 19/0232



 <b>Pullman Power Products</b>		<b>IV-2</b> DOCUMENT NO.	
PREPARED BY: <b>E. SWISHER</b>	APPROVED BY: <b>E. KIMBLEY</b>	EDE	ISSUE DATE: <b>2/16/83</b>
<b>SLABROOK PROJECT PROCEDURE</b>	TO BE USED ONLY ON JOBS # <b>7035</b>	PAGE NO.	<b>APPENDIX L 6 of 9</b>

#### STANDARD REPAIR CRITERIA (continued)

Any inconsequential dent or other irregularity in a machined surface which after grinding or buffing would not affect base material thickness or impair the welding operator's ability to perform a sound weld may be repaired accordingly. Weld repair is prohibited. All grinding shall be followed by appropriate surface examination.


7/16/83

Where a counterbore does not extend sufficiently far into a spool it may be remachined in the field to the original specifications. All remachined areas shall be followed by surface examination and wall thickness measurements.

Dent backing rings may be straightened by use of hand tools. Beating and peening is prohibited. As an alternate, a damaged backing ring may be removed and a new one conforming to the applicable material specification may be installed. Removed tack welds shall be ground flush and given a surface examination. Any reductions in wall thickness is prohibited.

#### TECHNICAL JUSTIFICATION

The conditions described herein are minor in nature and are readily recognized and repaired without risk of additional damage to the fabrication. Repair as described herein does not jeopardize material quality or system design criteria.

 <b>Pulman Power Products</b>		<b>EV-2</b> DOCUMENT NO. 2/16/83
PREPARED BY: <b>E. SWISHER</b>	APPROVED BY: <b>E. HIRLEY</b>	ISSUE DATE:
<b>SEABOOK PROJECT PROCEDURE</b>	TO BE USED ONLY ON JOB # <b>7035</b>	PAGE NO. <b>7 of 9</b> <b>APPENDIX 1</b>

### STANDARD REPAIR SPECIFICATION NO. 3

for

### MATERIAL LOST IN THE FIELD \*

#### BACKGROUND

Occasionally an item received onsite cannot be located and retrieved from the Contractor's storage facility. Some of these items are readily replaceable from field bulk stock.

#### DESCRIPTION OF THE CONDITION TO BE REPAIRED

An item known to have been received on site but which cannot be retrieved from the Contractor's storage facility. The item shall not have a value in excess of \$500.00.

#### STANDARD REPLACEMENT CRITERIA

A lost item may be replaced with a new item taken from undesignated field stock provided:

- For ARI or similar code items, the replacement must be of equal or more stringent equality.
- For other items not included in a. above, the replacement item must exactly duplicate the lost item.
- The replacement item possesses the same or higher documentation.
- The replacement item is retagged, where appropriate, in accordance with the approved site procedures.

Should a lost item be retrieved after a replacement has been installed, the item shall be placed in field stock.

In each case instance of lost material, the DDC Piping Department shall be notified verbally prior to installation of a replacement.

#### TECHNICAL JUSTIFICATION

Replacement of lost material with an exact duplicate taken from field stock does not jeopardize material quality or system design criteria.

\* REF: BCA 19/0232





Pullman Power Products

IV-2

DOCUMENT NO.

PREPARED BY: E. WISNER

APPROVED BY: B. EWELEY

IDE

DATE: 2/16/83

SLABBOOK  
PROJECT PROCEDURE

TO BE USED  
ONLY ON JOBS

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NO.

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STANDARD REPAIR SPECIFICATION No. 6

for

RELOCATION OF CODE DATA PLATES AND COMPONENT I.D. PLATES \*

BACKGROUND

ASME Section III components and other pre-purchased materials may have code data plates or component identification plates attached. Where the location of the code data plates is in conflict with project requirements or where modification to pipe spools or components causes the code data plate to be discarded, the plates may require relocation in the field in accordance with the requirements specified herein.

DESCRIPTION OF THE CONDITION TO BE REPAIRED

The presence of a code data plate (or component I.D. plate which either is in a location which is unserviceable because of interference or has been completely removed due to pipe spool or component modification).

STANDARD REMOVAL CRITERIA

For welded attachments, remove the data plate(s) by grinding with a mild grinding wheel in a manner which precludes injury to the pipe pressure boundary. Blend the ground area to the contour of the surface.

Conduct an examination to assure that grinding does not reduce the wall thickness below the minimum thickness (T<sub>m</sub>) as stated on UG-81, 3000-9-1583 for piping or more than 5% of nominal thickness of other members. This examination may be a visual examination using a straight edge held against the contour of the pipe to verify that grinding does not result in a appreciable reduction of the wall thickness. Where this examination is not conclusive, a UT wall thickness measurement shall be conducted.


Conduct a surface examination of all areas affected by the grinding operation; RT examination for ferromagnetic materials, LP examination for others.

All IDE shall be performed by qualified Quality Assurance inspectors.

For riveted attachments (allowed in pipe support components only) the removal and reinstallation of rivets shall be per approved contractor procedures in accordance with the rivet manufacturer's instructions.

\* REF: TCA 10/0102

SF 1.01A (07-81)

 <b>Pullman Power Products</b>		<b>IV-2</b> DOCUMENT NO.	
PREPARED BY: <b>E. SWISHER</b>	APPROVED BY: <b>B. BINKLEY</b>	ISSUE DATE: <b>2/14/83</b>	
<b>SEABROOK PROJECT PROCEDURE</b>	TO BE USED ONLY ON JOBS <b>7035</b>	PAGE NO.	<b>APPENDIX 1 9 of 9</b>

Relocate the data plate(s) in accordance with the following criteria:

**In Piping:**

- a. Review UELC support isometric drawings and support detail drawings to select a location of the spool which will not interfere with a support.
- b. Review applicable sleeve drawings to select a location not within a sleeve.
- c. Review Drawo fabrication sketches and isometric sketches to determine if the affected pipe spool is to be subjected to in-service inspection. If not, select a convenient new location for the plate(s). If in-service inspection is required, select a new mounting location which satisfies the criteria of 9763-18-1 titled Design Guidelines for In-Service Inspection of Piping Systems.
- d. Treat the data plate(s) as a minor permanent attachment and consequently follow the rules of NB/NC/ND-4435 for ASME Section III Code Piping.

**IN SUPPORT COMPONENTS**

- a. Review the support design detail drawing and select a convenient location which satisfies the access criteria.

In all cases, the plate shall be readily visible for examination. Plates shall be oriented in a workmanlike manner leaving their longest edge either parallel or perpendicular to the major axis of the member. All work shall be in accordance with approved procedures.

Identify the exact location of the relocated data plate on as-built drawings. \*\* As-built location and drawing to be verified by authorized nuclear inspection.

**TECHNICAL JUSTIFICATION**

The location of data plates is arbitrary, provided it satisfies the criteria referenced herein. Relocation (rework) in accordance with the Code as described herein per approved procedures does not jeopardize material quality or states design criteria.

- \*\* The location of the Data Plate may be established/identified by use of an On-The-Spot ECA, REF: Project Procedure III-4.

4/14/83



JOB NO.		PURCHASE ORDER		FOREIGN PRINT NO		VENDOR DRAWING OR DOCUMENT NO		REV		80		80		80	
100		100		100		100		100		100		100		100	
P763011248005141497181188XV-2										18219					
DESCRIPTION								VENDOR'S NAME							
LINE 1								LINE 2							
INDL WNC/NEO/PMANCESS LIMITED WORK AUTH P-H															
DATE		USER		CLIENT'S REVIEW		USER REVIEW		FINAL DISTRIBUTION DATE		DISTRIBUT		CHECK			
01/01/00		01/01/00		01/01/00		01/01/00		01/01/00		01/01/00		01/01/00		01/01/00	
5-630082453P12450TE2806BT75718															
UNITED ENGINEERS & ARCHITECTS INC.								<input checked="" type="checkbox"/> PRINTED AS PER NO. OF CONTRACT <input type="checkbox"/> SUBMIT REVISED DRAWINGS FOR REVIEW <input type="checkbox"/> SEND REVISED DRAWINGS FOR RECORD BY <u>C. F. Espinoza</u> DATE <u>9/16/03</u>							

INFORMATION ONLY