

Pullman Power Products		EV-2
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SEABROOK PROJECT PROCEDURE	APPROVED BY: R. BINKLEY TO BE USED ONLY ON JOB # 7035	PAGE NO. 1 of 16
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PROCEDURE FOR HANDLING
NONCONFORMANCES AND LIMITED
WORK AUTHORIZATION (FIELD)

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U. S. & C. INC.

PULLMAN POWER PRODUCTS

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WILLIAMSPORT, PENNSYLVANIA

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1.0 SCOPE

- 1.1 This procedure defines the methodology utilized resulting to process nonconformance (NCR'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 during fabrication or installation, at final inspection or during testing.
- 2.2 Nonconformances associated with Non-Code or Non-Safety related items are reported and controlled in accordance with Project Procedure IV-2 NMS.
- 2.3 Nonconformances identified during Receipt Inspection or Documentation Review of materials and items furnished by UEGC 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 UEGC 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.
- 3.2 The Chief Field Engineer, or his designee, shall provide recommended dispositions of all NCR's per Sections 7.0 and 8.0 of this procedure.
- 3.3 UEGC shall provide the disposition of all NCR's, through the Nonconformance Review Board, per Sections 9.0 and 10.0 of this procedure.
- 3.4 The QA Manager, or his designee, shall evaluate all nonconformances for applicability for reporting under 10 CFR 50.55 (e) 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 IV-3).
- 3.5 The QA Manager or his designee, upon evaluation of the NCR, will initiate 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.

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4.0 APPLICABILITY OF NONCONFORMANCE REPORT (NCR)

4.1 Unacceptable conditions will exist that do not require an NCR. 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, procedure and 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-II-14.

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

- A. The remaining section thickness is not reduced below the required minimum thickness.
- B. When the minimum thickness is suspect, UT or mechanical measurements shall be employed for thickness verification.
- C. The depression, after unacceptable condition elimination, is blended uniformly into the surrounding surface.
- D. 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.
- E. 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 NCR 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.

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A. These conditions shall be corrected in accordance with Procedure JS-12-16, "Defect Removal and Repair by Welding", and/or the applicable NCB procedure.

4.2 As NCB (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/EIEC 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 I: Specification No. 4).
- 4.2.7 Improper pressure retaining dimensions (minimum wall deviations) where weld repairs are not authorized.
- 4.2.8 Misalignment of components beyond Code, procedure or specification tolerances.
- 4.2.9 Repair welding following final leak (Hydrostatic/Pneumatic) testing, or final heat treatment.
- 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. Any similar conditions in equipment installed by others shall be reported on a Construction Incident Interface Report (CIIIR) per Procedure 12-57, not on a NCB.
- 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 A-9.
- 4.2.12 Repairs for correction of damaged or nonconforming witness lines

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5.0 IMMEDIATE ACTION

5.1 When a nonconformance is discovered, the item involved shall be segregated, when possible, by a QC Inspector and a "Hold Tag" (Appendix C) will be placed on the item or adjacent to the operation (as in the case of welding) and the Field Process Sheet (Appendix E) or Field Weld Process Sheet (Appendix F) shall be withdrawn. Where applicable, the QC Inspector will note the NCB number on the Process Sheet and return it to QA Specialist-Process at the WMDC. Hold Tags will be controlled through the RC Log (Appendix I).

5.2 The NCB 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 (LWA)

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

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 LWA 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 LWA authorize work which may affect, or be affected by the condition described in the initiating document (i.e., SWO or NCR). The LWA 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 UEC prior to approval of the LWA.

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

- A. The responsible Field Engineer shall submit the LWA 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 LWA Request shall be submitted to UEC Responsible Site Engineer for review and approval.

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- 6.1.3 Upon approval of the LWA request, the QA Manager, or his designee, shall initiate the LWA Tag. Suitable control logs, indicating LWA status shall be maintained by bim. Any Field Drawings or Field Process Sheet(s) which may have been withdrawn will be reviewed and revised, if necessary. The approved LWA 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 LWA 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 LWA Request, and prior to item work or movement, a QC Inspector will affix an LWA Tag (Appendix H) adjacent to the Hold Tag on any affected item(s).
- 6.1.5 After the LWA work has been performed, the LWA Request shall be forwarded to QC Inspection. Inspection and acceptance of LWA scope of work will be defined in procedures called out on applicable Field Drawings, Field Processes Sheets, or on the LWA Request.
- 6.1.6 Upon completed inspection of the scope of work, the applicable QC Inspector will remove the LWA Tag and return it to the QA Office. At the QA Office he will sign off the original LWA Request signifying completion of work. All other documentation pertaining to the LWA 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 LWA scope of work, the field copy of the LWA Request will be withdrawn by the QC Inspector. The Inspector will destroy the field copy of the LWA Request, remove the LWA 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 LWA 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 LWA scope of work completed, shall remain with the Process Sheet(s).

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7.0 PROCESSING AND EVALUATION OF NONCONFORMANCE REPORTS

- 7.1 The initiator, upon discovery of a condition believed to require a Nonconformance Report, shall complete an NCR in accordance with this procedure (See Appendices A, B & C) and forward to the QA Manager's Designee (QA-RCE).
- 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 (ie: non-Code reporting procedures) the NCR shall be voided per paragraph 13.0 of this procedure.
- 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-NCR 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 NCR's.
- 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.

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8.0 PROPOSING DISPOSITION OF NONCONFORMANCE REPORTS

8.1 The proposed disposition of the nonconformance will be determined by the Field Engineering Department in conjunction with Quality Assurance, or by the Resident Construction Manager, if necessary. The proposed disposition shall be reviewed for Code compliance by the QA Manager and the Authorized Nuclear Inspector. If in this review the QA Manager or Authorized Nuclear Inspector do not concur, the NCR will be returned to the originator for reevaluation and/or revision of the proposed disposition. Acceptable dispositions, and their limitations, are defined in 8.2 through 8.6, below.

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.)

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 as "Use-As-Is".

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 specification requirements and repair or Rework is impractical or impossible.

6/24/83 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. 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.

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- 4/16/83 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.
- 4/16/83 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 commencement of repair activities.
- 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 per Project Procedures III-4 and VI-5. Work may commence when the required documents are received by the Field Engineer.
- 8.4.3 Repair of Weld Metal Defects
- A. Unacceptable field weld defects and base metal defects detected by those methods required by the applicable subsections of the ASME Code, Section III, Division I, shall be eliminated and repaired in accordance with Procedure JS-IX-14.
- B. In addition to the above requirements, all repair(s) of base metal defects shall be performed in accordance with N1-4450.
- 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.

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

A. When rework activities involve a changed or new Special Process requirement, DE&C shall initiate Field Drawing revision(s)/ECA(s), and new or revised Process Sheets per Project Procedures III-4 and VI-5. Work may commence when the required documents are 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 NCR dispositioned "Use-As-Is" the QA Manager, or his designee, will arrange for removal of the Hold Tag.

9.0 FORMAL DISPOSITIONING/APPROVAL OF NCR'S

9.1 All NCR's shall be reviewed, dispositioned and approved by DE&C through the Nonconformance Review Board (NRB) as outlined in 10.0 below.

9.2 Disposition of NCR'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.

9.2.1 ANI Review is not required for Non-Code Safety Related NCR's.

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

10.1 A formal disposition (approved) from the NRB is required for each NCR. Prior to issuance of the formal disposition, interim action for additional information may be required. Interim action may also be required concurrent with the final disposition of the NCR.

10.2 Interim action may require supplemental information to be submitted to aid in making final disposition. Interim action directions should state any documentation requirements.

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

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10.4 Upon receipt of interim action add/or an approved NCR disposition involving repair or rework, QA-NCR shall notify 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 NC 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 NC Log.
- B. Work cannot proceed until an NCR is approved (except by LWA), and a Field Drawing revision or ECA is initiated (see Paragraphs 8.4.2.A and 8.5.2.A). A Repair Tag should 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 NC Log as required in Pullman Procedure XV-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 NC Log may be updated. After the log has been updated, the Repair Tag may be destroyed.

- A. The Inspector removing the QA /QC Repair Tag shall assure himself that any other action required by the NCR, Process Sheet, etc. has been performed and verified.

11.0 DOCUMENTING

11.1 The QA Manager, or his designee, shall be responsible for the control of nonconformances. Through the use of the NC Log, he will assign NCR numbers. This log will also contain such information as date initiated, brief description of the nonconformance, Hold Tags applicable, Repair

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<p>Tags applicable, and status information. NCR's shall clearly identify the official building abbreviation and unit designation. (Appendix A, pages 3 thru 5).</p> <p>11.1 Upon approval of job NCR by the E&I, the QA Manager, or designee, shall retain a copy in QA Records, and forward copies to the Chief Field Engineer and the Construction Superintendent.</p> <p>11.3 When the disposition actions are completed and properly documented, QA Records will document these actions by completing line #13 of the NCR.</p> <p>12.0 RECORDS</p> <p>12.1 Records of all nonconformances and their disposition shall be maintained under the supervision of the QA Manager. NCR's shall be easily retrievable for review.</p> <p>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.</p> <p>12.1.2 In all cases where "Return" for replacement is decided, the records shall be returned with the item.</p> <p>13.0 VOIDING NONCONFORMANCE REPORTS</p> <p>13.1 If it becomes necessary to void an NCR, it shall be voided only by the QA Manager, or his designee. The reason for voiding shall be identified on the NCR, along with the QA Manager (or designee) signature and date.</p> <p>13.2 Concurrence with the action shall be obtained from the Chief Field Engineer (or designee) and the A&I <u>only</u> when their previous review and signature had been obtained (per paragraph 7.7). Concurrence shall be documented by signing and dating the voided NCR.</p> <p>13.3 NCR's voided prior to transmittal to UESB shall not be transmitted to UESB. They will, however, be advised of this action by interoffice correspondence to account for the sequential NCR numbers. NCR's transmitted to UESB and subsequently voided, either prior to or after disposition (approval), shall be resubmitted to UESB as supplemental information.</p> <p>13.4 The initiator of an NCR which is subsequently voided shall be verbally advised of the action, and upon his request, may receive an informative copy of the voided NCR.</p>				

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

13.6 NCR control numbers are assigned upon initial reporting of suspected nonconforming conditions. After further evaluation, the originator may determine the condition not to be nonconforming and not requiring reporting as an NCR. In such cases, the originator will notify QA-NCR so that, if concurrence (per Paragraph 7.7) has not yet been obtained, the NCR control number may be deleted from the NC Log. Deleted NCR control numbers are not considered "voided" NCR's and the control numbers may be re-used.

14.0 REVIEW AND RECURRENCE PREVENTION

14.1 The QA Manager, or his designee, shall initiate and record on the NCR 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 augment the corrective action process by issuing a Corrective Action Report in accordance with Procedure XVII-2.

14.2 In order to minimize the recurrence of repetitive NCR's, the QA Manager shall evaluate NCR's in accordance with the Pullman Procedure for Trend Analysis, XVI-3.

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<u>INSTRUCTIONS FOR COMPLETING NCB FORM</u>					

- a) Enter Pullman ISO(s) affected and line(s) affected.
- b) Enter Boundary Identification Package (BIP)
- 1a) NCB NO: Pullman Job No. (7035) and Control Number (i.e. 2295).
- 1b) Rev No: Initial issue is 0 with revisions to same NCB numbered in consecutive order.
- 1c) Sheets: NCB 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.
- 1d) Item Identification No: Unique identifying number of component or item NCB is written about. This should be filled in whenever possible. "See Below" should only be used when too many items are involved.
- 1e) Item Name: Generic name of items identification number (i.e. spool, valve, field weld, pump, support).
- 1f) Quantity: Number of items involved in 1d.
- 1g) Blank: Used to identify code used for installation and/or supply.
- 2a) Name: Originator(s) of original NCB and its revision.
- 2b) Initials: Initials of 2a.
- 2c) Organization: Organization originating NCB. For our application at Seabrook Pullman Power Products.
- 2d) Date: Date of origination.
- 3a) Source: Name of company/department supplying the item.
- 3b) Current Status: Status of item in construction process and Hold Tag number.
- 3c) Location: Location of item at time of writing NCB, including building, zone, elevation, column, azimuth, as applicable.
- 4a) Name: Name of company/department who will be responsible for nonconformance.
- 4b) Spec. No.: DEGC purchase order specification involved in nonconformance (i.e., 248-51 = Pipe and Equipment Erection).
- 4c) Rev: Latest revision of the specification in effect at writing of NCB.
- 5a) Possible Significance: NA - Not identified as being under other two; Part 21 - Can be reportable safety hazard per 10 CFR 21; 50.55e - pertaining to 10 CFR 50.55e.
- 5b) "E" for equipment/material supply NCB; "I" for installation; "P" for a QA Program.
- 6a) Covering Requirements: Specific documents, procedures, specifications, codes, drawing, diagrams, special instruction 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 descriptive portion of the report.

Pullman Power Products				SV-2
PREPARED BY: R. SWISHER			APPROVED BY: M. HINDELEY	DOCUMENT NO.
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- 8a) Cause Code: Code per Appendix C.
- 8b) Description of cause of nonconformance.
- 8c) Proposed disposition type.
- 9a) 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.
- 10b) Stamp of Customer/Owner's nonconformance board and its disposition of BCB.
- 11a) Signature and date of authorized representative of Field Engineering Department.
- 11b) Signature and date of Field QA Department.
- 11c) Signature and date of Field Authorized Nuclear Inspector.
- 11d) Date signed by AEI (11c)
- 12) For ASME III systems, review board approval shall be by Customer/Owner. For B31.1 systems, Section 8.1.3 and 8.1.4, clarify whether approval is by Pullman or by Customer/Owner. When approval by Pullman is allowed, an authorized representative of the Chief Field Engineer and QA Departments shall sign off in their applicable boxes.
- 13) Disposition Verified - Authorized QA Representative will verify that complete disposition has been completed on BCB.

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PREPARED BY: E. SWISHER	APPROVED BY: R. HINELEY	ISSUE DATE: 2/14/83
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LIST OF SYSTEM ABBREVIATIONS
(From JEBC DWG M-500006)

<u>ABBREVIATION</u>	<u>SYSTEM</u>
AAB	Administration Services Bldg. Air handling
AB	Auxiliary Boiler (All Systems)
ACT	Acetone
AM	Argon Meltane
AE	Argon
AE	Condenser Air Evacuation
AS	Auxiliary Steam
ASC	Auxiliary Steam Condensate
ASB	Auxiliary Steam Heating
SBS	Boron Recovery System
BWR	Building Water Return
BWP	--Guardhouse Heat Pump
BWS	Building Water Supply
CAS	Chemical Analysis & Addition System
CAN	Containment Air Handling
CAP	Containment Air Purge
CBA	Control Bldg. Air Handling
CIS	Containment Bldg. Spray
CCW	Containment Cooling Water Primary
CCW	Containment Water
CO	Carbon Dioxide (ALL PLANT CRAN.)
CGC	Combustible Gas Control
CCW	Chilled Cooling Water
CBW	Chlorination Building N & V
CLA	Condensate
CO	Containment on Line Purge
COP	*Rod Control & Position
CP	Check Point Air Cond. System
CPA	Chlorination System
CL	*Chemical & Volume Control
CS	Chemical Treatment & Sec. Chemistry
CT	Circulating Water
CW	CW Pump House Air Handling
CWA	Compressed Gasses (ALL EXCEPT N2, H2, CO2)
CC	Contaminated Waste Vent
DCV	Contaminated Waste
DCW	

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PREPARED BY: R. SWISHER	APPROVED BY: R. MINELEY	ISSUE DATE: 2/16/81
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<u>ABBREVIATION</u>		<u>SYSTEM</u>
DC	Diesel Generator (ALL SYSTEMS)	
DGA	Diesel Gen. 1A (EQUIP. PKG.)	
DGB	Diesel Gen. 1B (EQUIP. PKG.)	
DAB	Diesel Generator Air Handling	
DF	Drains Floor	
DW	Deminerlized Water	
DR	Drains Roof	
DS	Drains Sanitary	
LEA	Containment Enclosure Air Handling	
ED	Electrical Distribution	
EDE	Electrical Distribution -- EMERGENCY	
EHS	Turbine Electro Hydraulic System	
EPA	Emer FW P House Air Handling	
ES	*Electrical Systems	
EX	Extraction Steam	
FAS	Fuel Storage Bldg. Air Handling	
FB	*Fuel Handling - Reactor	
FO	Fuel Oil	
FP	Fire Protection	
FPA	Fire Pumphouse Air Handling	
ETA	Elec. Tunnel Air Handling	
FW	Feedwater (INCL. *FC)	
GAB	Guard House Air Handling	
GSC	Generator Stator Coolant	
BD	Boiler Drains	
BL	Boilium	
HF	Hydraulic Fluid for EHS	
BT	Boat Tracing	
HGS	Hydrogen Gas at Generator	
HSD	G.E. Turbine Hydrogen Seal Oil Drain	
HWR	Hot Water Heating Return	
HWS	Hot Water Heating Supply	
IA	Instrument Air	
IC	Incore Instrumentation	
IB	Isobutane - Helium	
LO	Lube Oil (ALL APPLICATIONS INCL. PURIFICATION)	
LD	Leak Detection System	
MAG	Mapp Gas	
MD	Moisture Sep. & Reheater Drains	
MN	Miscellaneous (NOT SYS. ORIENTED) Equip.	
MS	Main Stream (INCL. TURB. BYPASS STEAM)	
MSS	Mechanical Seal Supply	
MSD	Main Stream Drains	
MVD	Miscellaneous Vents & Drains	

Pullman Power Products

EV-2

DOCUMENT NO.

PREPARED BY:	E. WISNER	APPROVED BY:	H. HINELEY	ISSUE DATE:	2/14/83
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ABBREVIATION

SYSTEM

NG	Nitrogen Gas
NI	Nuclear Instrumentation
NX	Nitrous Oxide
OG	Oxygen
P&C	Public Address Communications
PAB	PAB Air Handling
PAM	Post Accident Monitoring
PP	Propane
PW	Potable Water - CITY WATER
PWB	Potable Water - BOT
PWR	Potable Water - RECIRCULATING
RC	*Reactor Coolant
RR	*Residual Heat Removal
RH	Radiation Monitoring
RMW	Reactor Make-Up Water
RS	Resin Silicing
SA	Service Air Systems
SAA	Service Air C-1A (EQUIP. PEG.)
SAB	Service Air C-1B (EQUIP. PEG.)
SAC	Service Air C-1A (EQUIP. PEG.)
SAD	Service Air C-1B (EQUIP. PEG.)
SAE	Service Air C-1C (EQUIP. PEG.)
SAN	Sanitary Sewer
SG	Steam Generator Blowdown
SI	Station Info. & Alarm Computer
SC	Secondary Component Cooling
SCC	Screen Wash Water
SCW	Spent Fuel Pool Cooling
SP	Non-Essential switchgear Air Handling
SGA	*Safety Injection
SI	Seal Oil-Generator
SO	Sound Powered Communications
SPC	Switchyard
ST	Seismic Monitoring System
SM	Sample System
SS	Turbine Steam Seal System
SSS	Storm Sewer
STO	Service Water
SW	SW Pump House Air Handling
SWA	Turbine Bldg. AIR Handling
TAB	SGFP Turbine Drive A (EQUIP. PEG.)
TDA	SGFP Turbine Drive B (EQUIP. PEG.)
TDS	Turbine Generator
TH	Telephone Communications
TPC	Turb. Supervisory Instrumentation
TSI	

Pullman Power Products

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PREPARED BY: E. SWISHER		DOCUMENT NO.
APPROVED BY: E. HINKLEY	ISSUE DATE:	2/16/87
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<u>ABBREVIATION</u>	<u>SYSTEM</u>
WAB	Waste Processing Air Handling
VG	Vents
WG	Waste Processing - GASEOUS
WL	WP - LIQUID
WLD	WP - LIQUID DRAINS (ALL TYPES)
WS	WP - SOLID
WT	Water Treatment
WW	Well Water
PI	Process Instrumentation
VS	Vibration Monitoring System
N/A	No System Applicable

Pullman Power Products



PREPARED BY: R. SWISHER	APPROVED BY: R. MINTLEY	ISSUE DATE: 2/14/83
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NONCONFORMANCE CODE

PREFIX DIGITS

1 Piping	2 Supports	3 Mechanical
4 UEC Engineering	5 UEC Const. Manager	6 Program
7 Other Contractors	8 Vendor	9 Miscellaneous

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 Receipt
021 Interpass/Post/Pre-Heating	091 Damaged
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/ Hilti Edge Distance	102 Inadequate Documentation
032 As Received	11 Unacceptable Test

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			DOCUMENT NO.
PREPARED BY: R. SWISHER	APPROVED BY: H. FINLEY	ISSUE DATE:	2/16/83
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SUFFIX DIGITS (Continued)

- | | |
|---|---------------------------------|
| 04 Unacceptable Coating/Lining | 111 Failed |
| 041 Upon Receipt | 112 Inadequate Documentation |
| 042 After Receipt | 13 Unacceptable Indent./Tagging |
| 043 After Installation | 131 Prior to Installation |
| | 132 After Installation |
| 05 Unacceptable Mechanical Operations | 14 Unacceptable MTE |
| 051 Grinding | 141 Not Calibrated |
| 052 Cutting | 142 Recalibration Overdue |
| 053 Torquing | 143 Unidentifiable |
| 054 Machining | 144 Damaged |
| 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 UZ&C Design Drawing | |
| 172 Inaccurate ISO | |
| 173 Design Documents | |

Pullman Power Products

PREPARED BY: G. SWISHER

APPROVED BY: R. KIRKLEY

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DOCUMENT NO.

ISSUE DATE

2/16/81

SEABROOK
PROJECT PROCEDURE

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APPENDIX C

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CAUSE CODES

1 Craft
Engineering

3 Quality Control
4 Quality Assurance

5 Others
6 Indeterminate

- 01 Workmanship
- 02 Carelessness
- 03 Inadequate indoctrination and Training
- 04 Incorrect/Inadequate Planning
- 05 Improper Supervision
- 06 Inadequate/Incorrect MTE
- 07 Out of Calibration MTE
- 08 Procedure - Wrong Revision
- 09 Procedure - Inadequate Implementation
- 10 Procedure - Insufficient Requirements/Bill of Materials/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

XV-2

DOCUMENT NO

3/14/82

PREPARED BY: R.G. DAVIS

ABRIVED BY: M.R. WINTSLEY

MDS

SEABROOK PROJECT PROCEDURE

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DOCUMENT NO.

PREPARED BY: R.C. DAVIS

APPROVED BY: H.D. HINCKLEY

HON

ISSUE
DATE: 2/14/83

SEABROOK
PROJECT PROCEDURE

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ONLY ON JOB # 7035

APPENDIX E
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GENERAL INFORMATION					
ITEM NUMBER DATE					
ITEM NUMBER DATE APPROVAL					
CONTRACTOR Public Service Co. of NC	ITEM # FIREHOG	DESCRIPTION OF NO. FIREHOG	DECAL NO. M-36	DECAL NO. M-07	DECAL NO. M-07
PREFABBED JOB NO. WM 5100/41A 7035	DATE 2/22/83	COST \$1000.00	CASE 1	BALE NO. EX-30	BALE NO. EX-30
OPER. NO.	OPERATOR	W/H	PLATE NO. M-17	OPEN BOX ✓	SHUT OFF ✓
CUTTING OPERATION FOR C/S PIPE WITH SMALL THICKNESS GREATER THAN 3/4"					
FIELD WELDING FABRI					
1	REHEAT PIPE TO 1000°F	12-00-83	✓	✓	✓
2	CUT PIPE	12-00-83	✓	✓	✓
3	VISUALLY INSPECT	12-00-83	✓	✓	✓
PREP TO LOWER PTS					
4	PREP TOP & SIDE	12-00-83	✓	✓	✓
5	OVERWELDING	12-00-83	✓	✓	✓
SPECIAL NOTES					
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369. APPROVAL, CP. DATE 2/21/83					
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371. APPROVAL, DR. DATE 2/21/83					
372. APPROVAL, CP. DATE 2/21/83					
373. PREHEAT					
374.					



Pullman Power Products

PREPARED BY: R.C. DAVIS

APPROVED BY: W.D. MINLEY NDE

IV-3

DOCUMENT NO

**SEABROOK
PROJECT PROCEDURE**

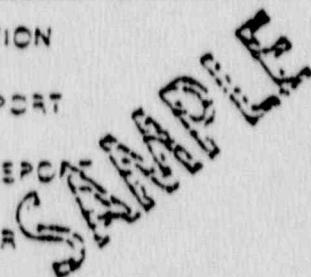
TO BE USED
ONLY ON JOBS # 7035

APPENDIX F
PAGE NO. 1 of 1

25

Pullman Power Products		IV-2
		DOCUMENT NO.
PREPARED BY: E.C. DAVIS	APPROVED BY: H.D. WINKLEY	MDW ISSUE DATE: 2/16/83
SEABROOK PROJECT PROCEDURE	TO BE USED ONLY ON JOB # 7035	APPENDIX C PAGE NO. 1 of 1

E1-81-17

JOB NO.	<u>7036</u>	PO	<u>201</u>
ITEM NO.	<u>N218</u>	MEAT OR	<u>K-1246</u>
HOLD		DATE	<u>2/7/83</u>
NO 35/2			
<input type="checkbox"/> HOLD FOR INSPECTION <input checked="" type="checkbox"/> WAIT FOR TEST REPORT <input type="checkbox"/> WAIT FOR - NCR - REPORT <input type="checkbox"/> RETURN TO VENDOR <input type="checkbox"/> WAIT FOR ENGINEERING SPEC OR DRAWING CLARIFICATION <input type="checkbox"/>			
 <i>Hillman</i> INSPECTED BY			
DISPOSITION			
<u>Patriot in Hold Order until</u> <u>reports are received and evaluated</u> <u>100% - 25/2 - N/A - INUSE FOR</u> <u>RE-INSPECTION</u>			

SST-36 (2/17/83)

 Pullman Power Products		XV-2 DOCUMENT NO.
PREPARED BY: R.G. DAVIS	APPROVED BY: H.D. MINKLEY	DATE: 2/14/83
SEABROOK PROJECT PROCEDURES	TO BE USED ONLY ON JOB # 7035	APPENDIX B PAGE NO. 1 of 1

PULLMAN POWER PRODUCTS SEABROOK STATION	
LIMITED WORK AUTHORIZATION	
# <u>001</u>	
ITEM IDENTIFICATION	
<u>SW-1S1S201</u>	
<u>Span. Pcs. - 15184314</u>	
QA APPROVAL SECRET OF LWA	
To Complete Field	
Used F0106	
APPROVAL FOR 15184314 ONLY	
QA INSPZ/zlby, DATE <u>5-7-79</u>	
TO BE ATTACHED OR REMOVED BY QC PERSONNEL ONLY	

SST-56 (1-13-83)

(CIRCLE "YELLOW")

Pullman Power Products

IV-2

PROCEDURE NO.

PREPARED BY: R.G. DATTI

APPROVED BY: R.D. WINKLEY

REV.

0-71 2/14/81

SEABROOK
PROJECT PROCEDURETO BE USED
FOR THE JOB # 7035APPENDIX I
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Pullman Power Products

IV-2

DOCUMENT NO.

PREPARED BY: R.C. DAVIS

APPROVED BY: H.D. WINKLEY

HHR

ISSUE DATE: 2/14/83

SEABROOK
PROJECT PROCEDURETO BE USED
ONLY ON JOB # 7035APPENDIX J
PAGE NO. 1 of 1ITEM NUMBER PS-12
ITEM NAME _____
ITEM CODE _____Pullman Power Products
SEABROOK, SEABROOK,
PROJECT NUMBER: 7035
ITEM NUMBER: PS-12DATE _____
PAGE _____ OF _____
SSP-36 (1-16-82)

A. ITEM(S) NAME/IDENTITY (INCLUDE TYPE, SYSTEM, LOCATION, AS APPLICABLE)

ITEM(S) RELATED TO HOLD TAG
ITEM NUMBER (PS-12) _____
ITEM NUMBER (PS-1) _____Borrowed/Retained Report (DR) _____
Received "HOLD" Inspection Rep. _____1. SEARCH FOR TAG REQUEST _____

_____2. SCOPE OF WORK WHICH WILL BE PERFORMED (INCLUDE SYSTEMIC PROCESS SWITC(H)) AND OPERATIONS TO BE PERFORMED AND/OR THE "FROM" AND "TO" MOVE LOCATIONS.

Signature of Field Engineer _____ Date _____

3. STATE OF ITEM(S) HAS BEEN REVIEWED AND ALL DOCUMENTATION RELATED TO HOLD TAG AND DR IS APPROPRIATE. INSPECTION HOLD POINT SHALL NOT BE BY-PASSED AND WORK SHALL NOT PROGRESS BEYOND THE FOLLOWING POINT TO PERMIT ACCESSIBILITY TO ITEM(S).

_____4. TAG REQUEST FOR THE FOLLOWING REASON: _____

Approval: <input checked="" type="checkbox"/>	Other Engineer: _____	Date: _____
Disapproval: <input type="checkbox"/>	Signature: _____	Date: _____
Approval: <input type="checkbox"/>	Project QA Manager: _____	Date: _____
Disapproval: <input type="checkbox"/>	Signature: _____	Date: _____
Approval: <input type="checkbox"/>	TEAC Engineering: _____	Date: _____
Disapproval: <input type="checkbox"/>	Signature: _____	Date: _____
ATT. Review: _____ Date: _____		

5. STATE IF YOU HAVE BEEN TOLD THE TAG IS TERMINATED IN WHICH CASE THE UNIT MUST BE STANDBY OR YOU MUST COMPLETE: _____

DO INSPECTOR SIGN THE HOLD TAG: _____	Date: _____
CLOSED IN QA OFFICE: _____	Date: _____
Signature: _____	Signature: _____



Pullman Power Products

PREPARED BY: R.C. DAVIS

APPROVED BY: W.D. MINOLEY

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XV-2

STANBOOK PROJECT PROCEDURE

TO BE USED
ONLY ON JOG # 7035

APPENDIX K

PULLMAN POWER PRODUCTS
SEABROOK STATION Job 7035

QA/QC READER
TAG # 15

- REWORK
 - REPAIR
 - OTHER ACTIVITY

SAMPLE

APPLICABLE FOR
JOB NO. 725 ONLY

NCR # 753

HOLD TAG # 1015

REMARKS

~~REPAIR SPINDLE & WHEEL 20-21A 3~~

20/20 INSPECTOR

DATE APPLIED 1/11/11

587-37 (1-12-53)

(COLOR - EDITION)

 Pullman Power Products			ZV-2
PREPARED BY: K. SWISHER		APPROVED BY: H. BINKLEY	DOCUMENT NO. 18-07 DATE: 2/16/87
SEABROOK PROJECT PROCEDURE		TO BE USED ONLY ON JOB # 7035	PAGE NO. APPENDIX L 1 of 9
<u>STANDARD REPAIR SPECIFICATION No. 1</u>			
for			
<u>DAMAGED CEMENT LINING *</u>			
<u>BACKGROUND</u>			
<p>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.</p>			
<u>DESCRIPTION OF THE CONDITION TO BE REPAIRED</u>			
5/16/83	<p>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.</p>		
<u>STANDARD REPAIR CRITERIA</u>			
<p>Single cracks up to 1/16" in width wherein cement lining appears to be tightly bonded to pipe may be accepted as-is.</p>			
<p>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 Sikadur Low-mod gel. Sikadur gel to be applied in accordance with the requirements of Pullman Procedure IX-30 (FP-62268) reflecting the requirements of Spec. 248-51. Interior finish of cement lining to be blended smoothly with the contour of existing cement lining.</p>			
<p>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.</p>			
<p>Record the location and extent of repairs on documents to be submitted to UEGC Construction Manager for record purposes.</p>			
<u>TECHNICAL JUSTIFICATION</u>			
<p>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.</p>			
<p>* BET. COA * 19/02/87</p>			

Pullman Power Products			ZV-2
PREPARED BY: E. SWISHER		APPROVED BY: R. MINNITY	DOCUMENT NO.
SEABROOK PROJECT PROCEDURE		TO BE USED ONLY ON JOB # 7035	ISSUE DATE: 2/16/81
			PAGE NO. APPENDIX L 2 of 9

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

Repair in accordance with approved procedures does not jeopardize material quality or system design criteria.

		Pullman Power Products		IV-2
PREPARED BY: R. SWISHER	APPROVED BY: R. HIRKLEY	NDA	ISSUE DATE:	2/16/81
SEABROOK PROJECT PROCEDURE	TO BE USED ONLY ON JOB #	7035	PAGE NO.	APPENDIX L 3 of 9

STANDARD REPAIR SPECIFICATION NO. 2

for

IMPROPER WELD PREP COUNTERBORE TRANSITION *

BACKGROUND

The piping fabricator is permitted to perform a "skim 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. "Skim cutting" of this nature was not recognised by project specifications prior to the issuance of ECA 19/0150A and selected pipe spools may arrive onsite with end prep contours featuring the "skim 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 DWG. 5000-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. Counterbore usually contains a sharp transition to nominal pipe inside diameter which violates code thickness transition criteria. Or, counterbore transition did not conform to DWG. 5000-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 less than T_m as shown in DWG. 5000-F-1382 shall be reported via nonconformance report.

TECHNICAL JUSTIFICATION

The existence of transition angles which do not comply with DWG. 5000-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.

*PFT ECA 19/0150

 Pullman Power Products		XV-2 DOCUMENT NO.
PREPARED BY: E. SWISHER	APPROVED BY: H. RINKLEY	ISSUE DATE: 7/16/81
SEABROOK PROJECT PROCEDURE	TO BE USED ONLY ON JOB # 7035	PAGE NO. APPENDIX L 4 of 9

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 any 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 3.5.5 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 Tapecoat 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

 Pullman Power Products			SV-2 DOCUMENT NO.
PREPARED BY: R. SWISHER	APPROVED BY: R. MINKLEY	MDW	ISSUE DATE: 2/16/82
SLABBOOK PROJECT PROCEDURE	TO BE USED ONLY ON JOB # 7039		PAGE NO. APPENDIX L 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 out 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. Insufficient 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 up a end preparation to achieve fit-up. Excessive force (resulting in permanent deformation or local irregularities in the pipe) and hydraulic jacking are prohibited.

* REF ECA 1910130

 Pullman Power Products		XV-2 DOCUMENT NO.
PREPARED BY: R. SWISHER	APPROVED BY: R. BINKLEY	ISSUE DATE: 2/16/82
SEABROOK PROJECT PROCEDURE	TO BE USED ONLY ON JOB # 7039	PAGE NO. APPENDIX L 6 of 9

STAND
ITE81A (continued)

Any local weld bead or other irregularity in a machined surface which after grinding 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.

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

Defect backing rings may be straightened by use of hand tools. Beating and passing is prohibited. As an alternate, a damaged backing ring may be removed and a new one conforming to the applicable material specifications 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.

Pullman Power Products		EV-2
PREPARED BY: E. SWISHER	APPROVED BY: H. HICKLEY	DOCUMENT NO.
SEABROOK PROJECT PROCEDURES	TO BE USED ONLY ON JOB # 7035	ISSUE DATE: 2/16/83
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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:

- a. For ASME or similar code items, the replacement must be of equal or more stringent equality.
- b. For other items not included in a. above, the replacement item must exactly duplicate the lost item.
- c. The replacement item possesses the same or higher quality documentation.
- d. 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 UEGC Piping Superintendent 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 compromise material quality or system design criteria.

* ERI FCA 19/U232

 Pullman Power Products			EV-2
PREPARED BY: R. SWISERZ	APPROVED BY: R. HINKLEY	DATE: 10/16/83	DOCUMENT NO.: 2/14/83
SEABROOK PROJECT PROCEDURE	- TO BE USED ONLY ON JOG # 7035	PAGE NO.	APPENDIX L 8 of 9

STANDARD REPAIR SPECIFICATION NO. 6

f37

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 REWORK 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_m) as stated on UIC6C Dwg. 5000-F-1382 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 an 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; MT examination for ferromagnetic materials, LP examination for others.

All NDE 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: CCA 14/0232

SI 1.01A (L1-1)

Pullman Power Products			ZV-2
PREPARED BY: E. SWISHER	APPROVED BY: R. HINKELEY	ISSUE DATE:	DOCUMENT NO.
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Relocate the data plate(s) in accordance with the following criteria:

In Piping:

- a. Review UFGC 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 Dravo 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 9763-1S-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/KC/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 system design criteria.

- 4/14/83
- ** The location of the Data Plate may be established/identified by use of an On-The-Spot ECA. REF: Project Procedure III-4.

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