

In addition to Volumes A through F of this report, examinations were performed by other contractors as listed.

1. Combustion Engineering, Document No. TR-ESS-037, Shop Pre-operational Inspection Program, Volumes 1 through 5
2. Conam Inspection, Eddy Current Examination Report
3. Louisiana Power and Light, PSI Visual Examination Program

8411070206 841030  
PDR ADOCK 05000382  
G PDR



**TITLE**

Data Reference - Other Sources

# The Virginia Corporation of Richmond



3605 Mayland Court, Richmond, Virginia 23233 (804) 346-0146

Date: October 11, 1983

Changes To: Final Report

Reference: Volume B, Part 1, Magnetic Particle Examination Report, dated 7/22/82, for weld 05-001 has Parker Probe serial no. 6404.

Correction: The correct serial number is 4604

Comment: The Virginia Corporation does not have a Parker Probe with serial number 6404. This is a transposition error.

Supervisor:

Daniel Jensen

# The Virginia Corporation of Richmond



3605 Mayland Court, Richmond, Virginia 23233 (804) 346-0146

Date: October 11, 1983

Changes To: Final Report

Reference: Volume B, Part 4, Ultrasonic Thickness Data Sheet, dated 6/17/82, for weld 18-040 has serial number 41874 for Sonic instrument model Mark I.

Correction: The correct serial number is 780836

Comment: The same ultrasonic instrument was used for thickness and 0° examinations. Serial number 41874 is a transducer serial number.

Supervisor:

Daniel L Jensen

# The Virginia Corporation of Richmond



3605 Mayland Court, Richmond, Virginia 23233 (804) 346-0146

Date: October 11, 1983

Changes To: Final Report

Reference: Volume B, Part 4, Ultrasonic Examination Report, dated 5/6/82, has no batch number for ultrasonic couplant on weld numbers 18-004 and 18-007.

Correction: Correct batch number is 8119

Comment: This examination was performed at the same time as the thickness measurements for these welds and couplant batch no. 8119 was used.

Supervisor:

David L Jensen



# The Virginia Corporation of Richmond



3605 Mayland Court, Richmond, Virginia 23233 (804) 346-0146

Date: October 11, 1983

Changes To: Final Report

Reference: Volume B, Part 5, Ultrasonic Data Sheets, dated 5/13/82, for thickness measurement, 0° and 45° examinations of weld 19-044

Correction: Delete ultrasonic examinations of weld 19-044

Comment: Ultrasonic examination was performed by mistake on weld 19-044. This weld only requires surface examination per applicable ASME Code requirements.

Supervisor:

Daniel Jensen

# The Virginia Corporation of Richmond



3605 Mayland Court, Richmond, Virginia 23233 (804) 346-0146

Date: October 11, 1983

Changes To: Final Report

Reference: Volume B, Part 5, Liquid Penetrant Examination Report, dated 2/19/82,  
for weld 19-019.

Correction: Delete PT examination of weld 19-019.

Comment: Weld 19-019 was examined in error. Not required to be examined per  
applicable ASME Code requirements.

Supervisor

Daniel Jensen

# The Virginia Corporation of Richmond



3605 Mayland Court, Richmond, Virginia 23233 (804) 346-0146

Date: October 11, 1983

Changes To: Final Report

Reference: Volume B, Part 8, Ultrasonic Examination Report for weld 45-004 LA  
and 45-004-LB

Correction: Delete welds 45-004 LA and 45-004 LB.

Comment: This elbow appeared to have longitudinal seams so we examined this  
area. Not being convinced that longitudinal seams did exist, Ebasco  
Services did an acid etch and no welds could be located.

Supervisor:

Daniel L Jensen

# The Virginia Corporation of Richmond



3605 Mayland Court, Richmond, Virginia 23233 (804) 346-0146

Date: October 11, 1983

Changes To: Final Report

Reference: Volume B, Part 8, Liquid Penetrant Examination Report, dated 6/14/82, for welds 52-WS-3-1, 52-WS-3-2, 52-WS-4-1, 52-WS-4-2, 52-WS-6, 52-WS-9-1 and 52-WS-9-2.

Change: Delete the following welded supports from examination report:

52-WS-3-1  
52-WS-3-2  
52-WS-4-1  
52-WS-4-2  
52-WS-6  
52-WS-9-1  
52-WS-9-2

Comment: The above mentioned welded supports were examined due to an error in the Program Plan. Examination not required per applicable ASME Code.

Supervisor:

Daniel Jensen

# The Virginia Corporation of Richmond



3605 Mayland Court, Richmond, Virginia 23233 (804) 346-0146

Date: October 11, 1983

Changes To: Final Report

Reference: Volume B, Part 9, Liquid Penetrant Examination Report, dated 6/5/82,  
for weld 57-040

Correction: Delete weld 57-040

Comment: This is a paperwork error by the examiner. 57-040 in the Program  
Plan does not require examination.

Supervisor:

Daniel Jensen

Minor Nonconformance Reported by: Donald PayneDate: 1/28/82

## Description of Minor Nonconformance:

- ① COMPLAINT USED FOR ULTRASONIC INSPECTION HAD NO BATCH NUMBERS ON SHIPPING CONTAINERS AND APPLICATOR BOTTLES.
- ② SURFACE THERMOMETER HAD NO CALIBRATION CERTIFICATION AS TO P.O. NUMBER NOT MARKED ON THE THERMOMETER.

## Disposition/Corrective Action:

- ① COMPLAINT WAS DISPOSED OF ON 1/29/82, ITEMS WERE TAGGED IN NON COMPLIANCE ON 1/28/82.
- ② SURFACE THERMOMETER WAS TAGGED IN NON-COMPLIANCE AND WILL BE REMOVED FROM SITE.

## Verification of Disposition/Corrective Action:

VCR Field Supervisor Daniel Dyer Date: 1/29/82VCR Quality Assurance Manager: [Signature] Date: 1/29/82

## Action to Prevent Recurrence:

Required  (2) Not Required  (1)

- ② P.O. # SHALL BE AFFIXED TO SURFACE THERMOMETERS AT TIME OF RECEIPT INSPECTION FOR CONTROL OF CALIBRATION DATE FROM MANUFACTURER.

QC: [Signature] 1/29/82





Minor Nonconformance Reported by: Daniel Jensen

Date: 1/29/82

Description of Minor Nonconformance:

① CERTIFICATION SHEET FOR STEEL STAMPS HAD NO RECEIPT INSPECTION STAMP.

Disposition/Corrective Action:

① ~~CC~~ P.O. # 7301-OJ WAS REFILED TO STAMP BOXES. NEW CERTIFICATION SHEET WILL BE SENT OUT FROM RICHMOND OFFICE.

Verification of Disposition/Corrective Action:

VCR Field Supervisor Daniel Jensen Date: 1/29/82

VCR Quality Assurance Manager: [Signature] Date: 1/29/82

Action to Prevent Recurrence:

Required \_\_\_\_\_ Not Required ✓

QC: [Signature] 1/27/82

Minor Nonconformance Reported by: DANIEL L JENSENDate: 2/15/82

Description of Minor Nonconformance: LIQUID PENETRANT INDICATION RECORDS FOR WELDS 6-011 &amp; 24-015 WERE NOT FILLED OUT IN ACCORDANCE WITH NDE-PROCEDURE 151-1.2, PRESERVICE INSPECTION DOCUMENTATION, PARA. 5.7.3.

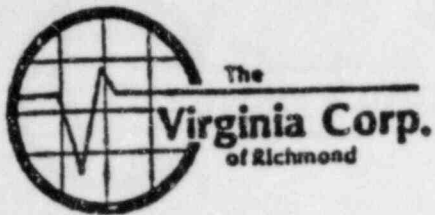
Disposition/Corrective Action: AREA OF REPORTABLE INDICATIONS WERE RE-EXAMINED AND NEW FORM PT-202 WERE COMPLETED WITH PROPER DATA.

Verification of Disposition/Corrective Action:

VCR Field Supervisor Daniel Jensen Date: 2/16/82VCR Quality Assurance Manager: Thomas S. Weirson Date: 2/17/82

Action to Prevent Recurrence:

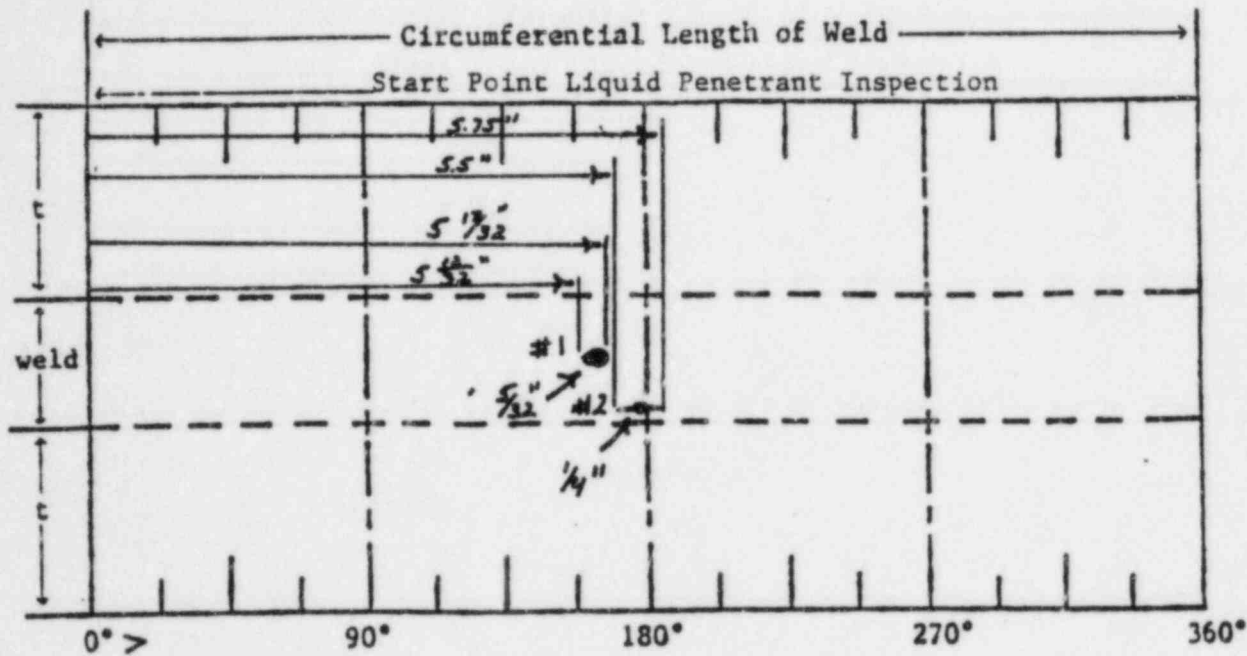
Required Not Required QC: N/A



Liquid Penetrant

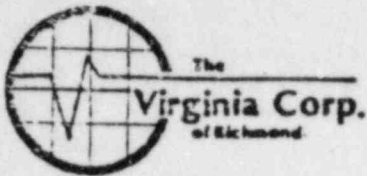
Don Payne ANII 2/15/82  
Indication Record

Customer <i>LP 11</i>	Plant <i>Waterford</i>	Unit <i>5</i>	Loop / Zone <i>24</i>
Procedure <i>ISI-3.1 RD FC-2</i>	Examiner/Level <i>James M. Hunt #1 / Robert J. Overstreet I</i>	Date <i>2-12-82</i>	
Component/Piping System <i>Pressurizer spray from loop 1A</i>		CR Site Supervisor <i>Daniel Jones</i>	
Weld No. <i>24-015</i>	ISO/Drawing No. <i>Zone 24 82</i>		



Remarks

*Indication #1 is in center of weld 3/8" from top of weld*  
*Indication #2 is 1/32" off top of weld*

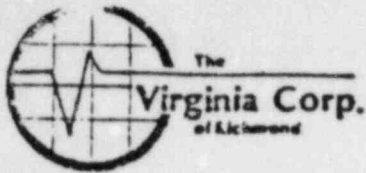
Minor Nonconformance Reported by: TOM MUNSONDate: 2/17/82Description of Minor Nonconformance: DURING SITE AUDIT ORIGINAL OF INDICATION RECORDS FOR WELDS 06-011 AND 24-015 WERE FILED IN REPORTABLE INDICATION ACTIVE FILE.Disposition/Corrective Action: REMOVE INDICATION RECORDS FROM "ACTIVE" INDICATION FILE AND MAKE COPIES. PLACE ORIGINAL IN DATA SHEET COMPLETE FILE AND ONE COPY IN REPORTABLE INDICATION ACTIVE FILE.

Verification of Disposition/Corrective Action:

VCR Field Supervisor Daniel Dima Date: 2/17/82VCR Quality Assurance Manager: Thomas B. Munson Date: 2/18/82

Action to Prevent Recurrence:

Required  Not Required CC: N/A

Minor Nonconformance Reported by: TOM MURISONDate: 2/17/82Description of Minor Nonconformance: CERTIFICATION SHEET FOR LIQUID PENETRANT MATERIALS RECICLED ON SITE 2/13/82 HAS NO P.O. #, MATERIALS INVOLVED ARE PENETRANT, DP-51, # 471015, DEVELOPER, D-100, # 129-F6, REMOVER DR-60 F1126,Disposition/Corrective Action: GET P.O. # FROM RICHMOND OFFICE AND WRITE ON CERTIFICATION SHEET, MAKE COPIES AND DISTRIBUTE TO ECASCO & LPL.

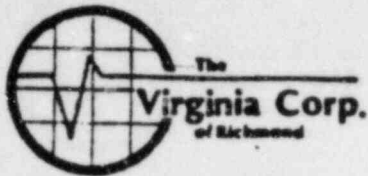
Verification of Disposition/Corrective Action:

VCR Field Supervisor Denise Jones Date: 2/17/82VCR Quality Assurance Manager: Thomas B. Wanner Date: 2/18/82

Action to Prevent Recurrence:

Required \_\_\_\_\_ Not Required ✓CC: 1/2



Minor Nonconformance Reported by: T. B. MunsonDate: 4/1/82

Description of Minor Nonconformance:

MT examiner (O. Foken) did not have 18% neutral gray card during examination of welds 41-005, 41-006, 41-004A, 41-004 LB)

Disposition/Corrective Action:

Examiner will check lighting at the above welds as soon as practicable and will carry gray card on future examinations

Verification of Disposition/Corrective Action:

VCR Field Supervisor Daniel Igans Date: 4/1/82VCR Quality Assurance Manager: TB Munson for FRMankoff Date: 4/1/82

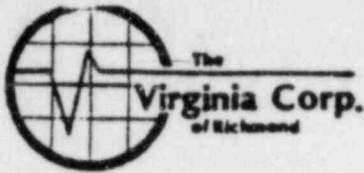
Action to Prevent Recurrence:

Required  Not Required 

Make sure all examiners (Level II) are issued gray cards and are familiar with the procedural requirements for use.

QC: TB Munson 4/1/82



Minor Nonconformance Reported by: T. B. MunsonDate: 4/1/82

Description of Minor Nonconformance:

Weld I.D. for weld # 41-005 was marked on the weld surface of 41-004LA - Markings should be at least  $1\frac{1}{2}$ " from weld.

Disposition/Corrective Action:

None. Any action would leave more stamp marks on weld.

Verification of Disposition/Corrective Action:

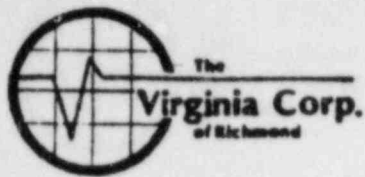
VCR Field Supervisor Daniel Jones Date: 4/1/82VCR Quality Assurance Manager: J.B. Munson for FR Date: 4/1/82

Action to Prevent Recurrence:

Required  Not Required 

Inform examiners of procedural requirements for marking weld I.D.s

QC: J.B. Munson 4/1/82



Minor Nonconformance Reported by: DANIEL L JENSEN

Date: 4

Description of Minor Nonconformance: SURFACE PROBE SP-10A WAS NOT RECEIVED AS ORDERED ON P.O. # 3292DJ.

Disposition/Corrective Action: SUPPLIER WAS CONTACTED AND MATERIALS ARE BEING EXCHANGED ON THE ORIGINAL P.O. #.

ITEMS BEING EXCHANGED - SP 10A SURFACE PROBE 10KHZ  
F-10 10KHZ FREQUENCY MODULE

ITEMS TO BE RECEIVED - 5KHZ SURFACE PROBE .800" COIL  
5KHZ FREQUENCY MODULE.

Verification of Disposition/Corrective Action:

VCR Field Supervisor Daniel Jensen Date: 4/13/82

VCR Quality Assurance Manager: Donna - Astle, Tom Munn Date: 4/13/82

Action to Prevent Recurrence:

Required \_\_\_\_\_ Not Required

QC: \_\_\_\_\_

Minor Nonconformance Reported by: Thomas B. MunsonDate: 6/3/82

Description of Minor Nonconformance:

Certification for MT for Dan Jensen is out of date as of April 17, 1982.

Disposition/Corrective Action:

IT has been determined that Dan Jensen did not independently perform any MT exams from April 17, 1982 thru June 3, 1982 and that he will not perform any MT exams until he is re-certified, which will be done as soon as practical.

Verification of Disposition/Corrective Action:

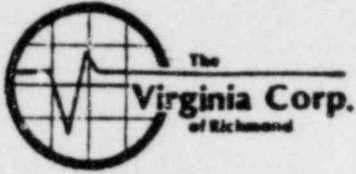
VCR Field Supervisor Daniel Jensen Date: 6/3/82VCR Quality Assurance Manager: TB Munson for FR Burkhardt Date: 6/3/82

Action to Prevent Recurrence:

Required  Not Required 

Periodic reviews of personnel certs by the VCR field supervisor are necessary to make sure that re-certifications are performed on a timely basis.

QC: \_\_\_\_\_



Minor Nonconformance Reported by: FRED BURKHARDT

Date: 7/1/82

Description of Minor Nonconformance:

FIELD SUPERVISOR IS NOT CHECKING THE ACTIVE FILES ON A WEEKLY BASIS (NDE PROCEDURES AND QA PROCEDURES). THIS IS A REQUIREMENT OF UC-ADMIN-101. MONTHLY QA AUDITS HAVE VERIFIED THEIR ACCURACY.

Disposition/Corrective Action:

FIELD SUPERVISOR HAS BEEN APPRAISED OF THIS DEFICIENCY AND WILL REVIEW FILES ON A WEEKLY BASIS

Verification of Disposition/Corrective Action:

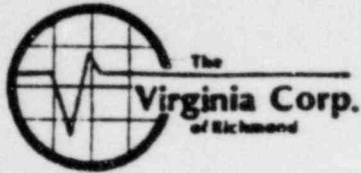
VCR Field Supervisor Daniel Evans Date: 7/1/82

VCR Quality Assurance Manager: [Signature] Date: 7/1/82

Action to Prevent Recurrence:

Required \_\_\_\_\_ Not Required

QC: \_\_\_\_\_



Minor Nonconformance Reported by: FRED BURKHARDT

Date: 7/1/82

Description of Minor Nonconformance:

NO RECORD ON CONTROLLED EQUIPMENT LOG OF SHIPMENT OF UT. INSTRUMENTS 04363E AND 01496E. RECORD OF SHIPMENT WAS CONTAINED IN EQUIPMENT CERTIFICATION LOG.

Disposition/Corrective Action:

RECORD SHOULD BE ENTERED INTO CONTROLLED EQUIPMENT LOG.

Verification of Disposition/Corrective Action:

VCR Field Supervisor Daniel D. Jones Date: 7/1/82

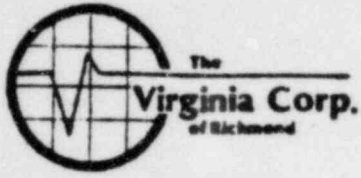
VCR Quality Assurance Manager: Fred Burkhardt Date: 7/1/82

Action to Prevent Recurrence:

Required \_\_\_\_\_

Not Required

QC: \_\_\_\_\_

Minor Nonconformance Reported by: FRED BURKHARDTDate: 7/1/82

Description of Minor Nonconformance:

ZONE 2, FCI WAS NOT ENTERED IN MASTER BOOK.

Disposition/Corrective Action:

FCI WAS COPIED FROM THE ACTIVE FILE AND PLACED IN THE MASTER.

Verification of Disposition/Corrective Action:

VCR Field Supervisor Daniel Jones Date: 7/1/82VCR Quality Assurance Manager: Carl Burkhardt Date: 7/1/82

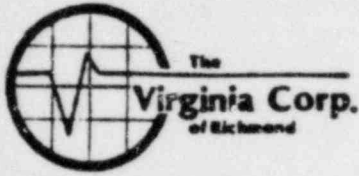
Action to Prevent Recurrence:

Required  Not Required 

MASTER LOG IS NO LONGER TO BE USED TO UPDATE PROGRAM PLAN. ONLY ONE ACTIVE FILES WILL BE USED

QC: \_\_\_\_\_



Minor Nonconformance Reported by: FRED BUEKHARDTDate: 7/1/82

Description of Minor Nonconformance:

SOME WELD ID NUMBERS WERE MARKED IN THE DIRECTION OF HIGHER WELD NUMBERS RATHER THAN LOWER WELD NUMBERS AS SPECIFIED IN ISI 1.1 PAR 9.2.3.

Disposition/Corrective Action:

THESE LOCATIONS WERE SUCH THAT MARKING ON THE PROCEDURALLY CORRECT SIDE OF THE WELD WOULD HAVE BEEN IMPRACTICAL. THE PROCEDURE SHOULD BE FIELD CHANGED.

Verification of Disposition/Corrective Action:

VCR Field Supervisor Daniel Jones Date: 7/1/82VCR Quality Assurance Manager: [Signature] Date: 7/1/82

Action to Prevent Recurrence:

Required  Not Required 

FCI TO ISI 1.1 ADD THE WORDS "WHERE PRACTICAL" TO 9.2.3

QC: \_\_\_\_\_

Minor Nonconformance Reported by: FRED BURKHARDTDate: 7/1/82

Description of Minor Nonconformance:

SOME WELD CENTERLINE MARKINGS HAVE NOT BEEN MARKED CLOCKWISE IN DIRECTION OF ZONE DRAWING FLOW.

Disposition/Corrective Action:

CENTERLINES SO MARKED SHALL BE RESTAMPED. ANY RESTAMPED WELDS WITH RECORDABLE/REPORTABLE INDICATIONS SHALL HAVE THE DATA SHEET(S) CHANGED TO REFLECT THE DIMENSIONAL CHANGE. A SYSTEM WALKDOWN IS IN PROCESS TO DETECT THESE ERRORS

Verification of Disposition/Corrective Action:

VCR Field Supervisor Kenneth White Date: 12/9/82VCR Quality Assurance Manager: Ann B. Martin Date: 12/9/82

Action to Prevent Recurrence:

Required \_\_\_\_\_

Not Required ✓

QC: \_\_\_\_\_

Minor Nonconformance Reported by: FRED BURKHARDTDate: 7/1/82

Description of Minor Nonconformance:

DURING AUDIT OF DUAL FILING SYSTEM,  
TWO ITEMS WERE NOT FOUND: FIELD CHANGE 1  
OF QA 101 AND CERTIFICATIONS FOR SONIC  
DS473E.

Disposition/Corrective Action:

THESE ITEMS SHALL BE PLACED IN THE <sup>FRA</sup> ALTERNATE  
DUAL FILING SYSTEM

Verification of Disposition/Corrective Action:

VCR Field Supervisor Daniel Jensen Date: 7/9/82VCR Quality Assurance Manager: Fred Burkhardt Date: 7/19/82

Action to Prevent Recurrence:

Required \_\_\_\_\_ Not Required 

QC: \_\_\_\_\_

Minor Nonconformance Reported by: FRED BURKHARDTDate: 7/1/82

Description of Minor Nonconformance:

1) FOXEN WAS NOT GIVEN FC2 ON 1512.3. ONLY INSPECTION DONE DURING THIS PERIOD WAS BURLINGAME'S INTERNAL NOZZLE INSPECTION. THIS INSPECTION WAS DONE WITH A TENTATIVELY, BUT UNOFFICIALLY APPROVED PROCEDURE. A FIELD CHANGE WAS MADE & APPROVED SO THAT THE ~~FIELD~~ <sup>FAB</sup> DISPOSITION/CORRECTIVE ACTION:

1) THE ONLY CHANGE THIS FIELD CHANGE ACCOMPLISHED WAS TO ALLOW I.D. INSPECTION, WHICH WAS DONE. NO CORRECTIVE ACTION NECESSARY EXCEPT TO NOTE IT IN THIS NCR.

2) THE PROGRAM PLAN NEEDS TO BE UPDATED TO REFLECT CAL. BLOCKS UTILIZED FOR INSPECTION.

Verification of Disposition/Corrective Action:

VCR Field Supervisor Daniel Jensen Date: 10/13/82VCR Quality Assurance Manager: [Signature] Date: 10/13/82

Action to Prevent Recurrence:

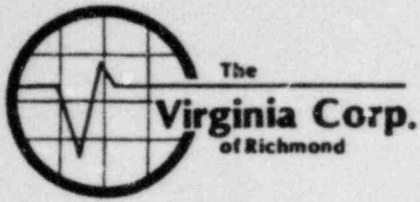
Required  Not Required 

THE PROBLEM HERE IS BASICALLY ONE OF NOT UPDATING NECESSARY FIELD CHANGES PROMPTLY ENOUGH. MORE HELP IS NECESSARY TO EXPIDITE THESE CHANGES. TWO AREAS NEED TO BE COVERED:

1) ONE TECHNICIAN WILL BE SENT TO THE SITE FOR THE PRIMARY PURPOSE OF EXPIDITING FIELD CHANGES

2) ONE Q & A TECHNICIAN WILL BE SENT TO THE SITE FOR THE PRIMARY PURPOSE OF REVIEWING ALL FIELD DATA SHEETS TO INSURE CAL BLOCK COMPLIANCE TO DATA SHEET, CORRECT PROCEDURES UTILIZED, ETC.

QC: [Signature]



Date 7/1/82

Page 2 of       

To: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

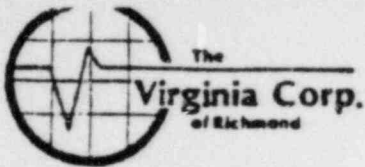
Subject \_\_\_\_\_  
CONTINUATION OF NEN 016  
\_\_\_\_\_  
\_\_\_\_\_

DESCRIPTION (CTD):  
TEST WAS ACTUALLY DONE TO FC 2, ALTHOUGH  
HIS DATA SHEETS REFLECT FC 1.

2) ON REVIEW OF DATA SHEETS, SOME CAL. BLOCKS  
DID NOT CORRESPOND WITH THE PROGRAM PLAN

Signed *[Signature]*





Minor Nonconformance Reported by: Daniel Jensen

Date: 8/9/82

Description of Minor Nonconformance: Qualifications have expired on two Ultrasonic Instruments, SN: 210021 and SN: 01610K. Re-qualification was due on 7/17/82.

Disposition/Corrective Action: Instruments were Requalified on 8/9/82 and found to be acceptable per procedure 151-2.1 R.O. no further corrective action necessary.

Verification of Disposition/Corrective Action:

VCR Field Supervisor Daniel Jensen Date: 8/10/82

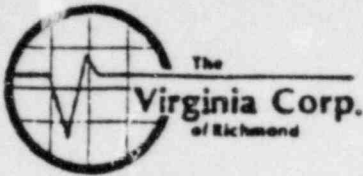
VCR Quality Assurance Manager: Tom Burkhead Date: 8/13/82

Action to Prevent Recurrence:

Required  Not Required

QC: Tom Burkhead





Minor Nonconformance Reported by: Wanil Dens

Date: 8/9/82

Description of Minor Nonconformance: SEVERAL ITEMS HAVE BEEN RETURNED WITHOUT EQUIPMENT CONTROL LOGS PROPERLY FILLED OUT AND CERTIFICATIONS REPLACED IN ACTIVE FILE.

Disposition/Corrective Action: FILLED OUT EQUIPMENT CONTROL LOGS AND PLACED CERTIFICATIONS IN ACTIVE FILE.

Verification of Disposition/Corrective Action:

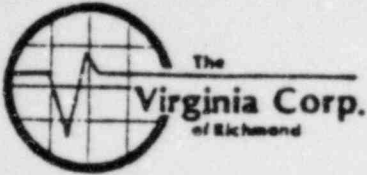
VCR Field Supervisor Wanil Dens Date: 8/9/82

VCR Quality Assurance Manager: [Signature] Date: 8/13/82

Action to Prevent Recurrence:

Required \_\_\_\_\_ Not Required

QC: [Signature]



Minor Nonconformance Reported by: DANIEL L JENSEN

Date: 9/14/82

Description of Minor Nonconformance:

EXPIRED CALIBRATION KRAUTKAMER  
USL-37  
SN:210021

Disposition/Corrective Action:

INSTRUMENT TO BE REMOVED FROM SITE, ALL EXAMINATIONS PERFORMED WITH THIS INSTRUMENT SINCE 9/5/82 THRU 9/14/82 WILL BE REEXAMINED.

Verification of Disposition/Corrective Action:

VCR Field Supervisor Daniel Jensen Date: 9/14/82

VCR Quality Assurance Manager: [Signature] Date: 9/16/82

Action to Prevent Recurrence:

Required \_\_\_\_\_ Not Required \_\_\_\_\_

QC: \_\_\_\_\_

Minor Nonconformance Reported by: FRED BURKHARDTDate: 10/14/82

Description of Minor Nonconformance:

Reviewed technician Blew's straight beam examination of 44-093. He calibrated for 90% screen height. Procedure calls for 80% from maximum reflector.

Disposition/Corrective Action:

Blew's data sheets will be reviewed. All examinations calibrated for 90% screen height will be redone.

Verification of Disposition/Corrective Action:

VCR Field Supervisor Daniel Jensen Date: 10/19/82VCR Quality Assurance Manager: [Signature] Date: 10/21/82

Action to Prevent Recurrence:

Required \_\_\_\_\_ Not Required ✓QC: [Signature]

Minor Nonconformance Reported by: FRED BURKHARDTDate: 10/14/82

Description of Minor Nonconformance:

1512.5 paragraph 8.1 states that "All thickness readings shall be referenced to the actual location of the reading by means of a sketch or sketches on the report form." This has not been done. Readings are reported via a clock position.

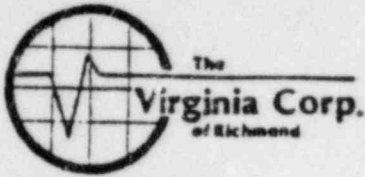
Disposition/Corrective Action:

Since readings are clearly indicated on the report form via clock position (ie 12, 2, 4 o'clock) sketches are unnecessary except in unusual circumstances. A field change will be generated to remove the sketch requirement except for these unusual circumstances.

Verification of Disposition/Corrective Action: unusual circumstancesVCR Field Supervisor Daniel Jensen Date: 10/14/82VCR Quality Assurance Manager: [Signature] Date: 10/14/82

Action to Prevent Recurrence:

Required \_\_\_\_\_ Not Required QC: [Signature]

Minor Nonconformance Reported by: FRED BURKHARDTDate: 10/14/82

## Description of Minor Nonconformance:

On review of angle beam data sheets for Zones 50 and 57, it was noted that the 1" node calibrations were set up at screen positions of 2, 4, and 6, rather than 3, 6, and 9 as ISI 2.7 specifies.

## Disposition/Corrective Action:

Because of varying calibration block thicknesses, a 2-5 direction calibration at 3, 6, 9 will place the 7-8 direction calibration off screen at the last position. A field change will be made to ISI 2.7 to allow ~~latitude~~<sup>latitude</sup> latitude in calibration positions if necessary.

## Verification of Disposition/Corrective Action:

VCR Field Supervisor David Jensen Date: 10/14/82VCR Quality Assurance Manager: [Signature] Date: 10/14/82

## Action to Prevent Recurrence:

Required           Not Required   ✓  QC: [Signature]



Check appropriate box:

Minor Nonconformance  
Complete items 1 - 4  
A minor nonconformance is a deviation from the established procedure which does not affect or detract from the quality or completeness of any examination.

Major Nonconformance  
Complete items 1 - 5  
A major nonconformance is a deviation from the established procedure which affects or detracts from the quality or completeness of any examination.

Reported by: DANIEL L JENSEN

Date: 11-16-82

1. Description of Nonconformance: EDDY CURRENT INSTRUMENT, NDT-8L  
SN: 326 IS OUT OF CALIBRATION. CALIBRATION WAS  
DUE 9-31-82.

2. Disposition/Corrective Action: NON CONFORMANCE STICKER WAS AFFIXED  
TO THE EDDY CURRENT INSTRUMENT. NO EXAMINATIONS HAVE BEEN  
PERFORMED BETWEEN 9-31-82 AND 11-16-82 WITH THE ABOVE  
INSTRUMENT.

3. Verification of Disposition/Corrective Action:

By: Daniel L Jensen Date: 11/16/82

VCR QA Manager [Signature] Date: 12/16/82

4. Action to Prevent Recurrence:

Required  Not Required

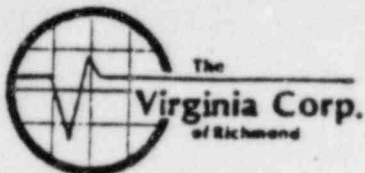
A SEPARATE CALIBRATION LOG SHALL BE INITIATED FOR  
TEMPORARY EQUIPMENT.

VCR QA Manager [Signature] Date: 11/16/82

5. Client(s) Affected:

Notified by: \_\_\_\_\_ Date: \_\_\_\_\_



Minor Nonconformance Reported by: FRED BURKHARDTDate: 12/9/82

## Description of Minor Nonconformance:

THE FOLLOWING WELDS WERE INSPECTED TO ISI 2.8 (AUSTENITIC TO CLAD FERRITIC) INSTEAD OF ISI 2.7 (AUSTENITIC TO AUSTENITIC). THESE INSPECTIONS WERE DONE CORRECTLY AS PER REVISION 2 OF THE PROGRAM PLAN. THE PROGRAM PLAN WAS IN ERROR, CALLING FOR AUSTENITIC TO AUSTENITIC WELDS TO BE DONE TO ISI 2.8. WELDS INVOLVED WERE 07-001, 08-015, 09-017, 10-001, 11-001, 12-013, 13-017, AND 14-001.

## Disposition/Corrective Action:

REVIEW OF THE PROCEDURES INDICATES THAT ISI 2.8 REQUIRES MORE EXTENSIVE EVALUATION AND A TWO ANGLE INSPECTION RATHER THAN ONE ANGLE AS COMPARED TO ISI 2.7. BECAUSE IT IS A MORE STRINGENT INSPECTION, THE DISPOSITION WILL BE TO NOTE IT BY MEANS OF THIS NCR. NO REINSPECTION WILL BE NECESSARY.

## Verification of Disposition/Corrective Action:

VCR Field Supervisor Kenn White Date: 12/9/82VCR Quality Assurance Manager: John Burkhardt Date: 12/9/82

## Action to Prevent Recurrence:

Required \_\_\_\_\_ Not Required ✓QC: John Burkhardt



Minor Nonconformance Reported by: JIM DICKENSON (MSS/LP/L)

Date: 7-20-83

Description of Minor Nonconformance: Reportable Indication Report dated 5-21-82 for weld 46-002 and 4-30-82 for weld 41-019 search unit position measurements were taken from the toe of the weld rather than the centerline of the weld as required by VCR procedure ISI-1.2.

Disposition/Corrective Action: Weld 41-019 DUE TO THE QUANTITY OF INDICATIONS THE OPERATOR FELT IT NECESSARY TO HAVE A REFERENCE POINT THAT WAS MORE PERMINANT THAN THE APPROXIMATE CENTERLINE. NO CORRECTIVE ACTION REQUIRED.

WELD 46-002 DUE TO THE SURFACE CONDITION <sup>DIS</sup> AND GEOMETRIC CONFIGURATION THE OPERATOR FELT IT NECESSARY TO HAVE A REFERENCE POINT SIMILAR TO WELD 41-019. NO CORRECTIVE ACTION REQUIRED.

Verification of Disposition/Corrective Action:

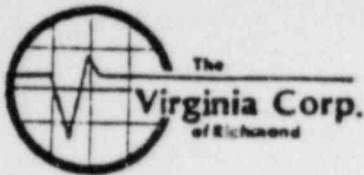
VCR Field Supervisor Daniel Jensen Date: 7-28-83<sup>DS</sup>

VCR Quality Assurance Manager: [Signature] Date: 7/28/83<sup>DS</sup>

Action to Prevent Recurrence:

Required \_\_\_\_\_ Not Required ✓

QC: [Signature]

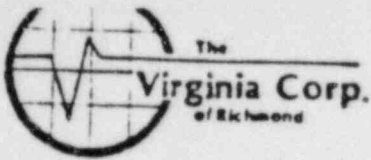
Minor Nonconformance Reported by: JIM DICKENSON (MSS/LP/L)Date: 7-20-83Description of Minor Nonconformance: WELD DATA REPORT DATED 6/5/82 FOR A50 SCAN ON WELD # 18-016 REFLECTS THE USE OF MKI # 07610E. NO CALIBRATION TO SUPPORT THIS INSTRUMENT.Disposition/Corrective Action: THE VA. CORP. DOES NOT HAVE A SONIC INSTRUMENT MARK I SN 07610E. THERE IS A SONIC MARK I SN 01610E AND IT IS BELIEVED THAT THIS IS AN OPERATOR ERROR. NO CORRECTIVE ACTION REQUIRED. CERTIFICATION ON FILE FOR SN 01610E

Verification of Disposition/Corrective Action:

VCR Field Supervisor Donald Jensen Date: 7-28-83VCR Quality Assurance Manager: [Signature] Date: 7/28/83

Action to Prevent Recurrence:

Required \_\_\_\_\_ Not Required QC: [Signature]



Minor Nonconformance Reported by: JAMES DICKENSON (MSS/LP&L)

Date: 7-20-83

Description of Minor Nonconformance: DATA SHEET DATED 4/15/82 FOR 45° SCAN OF WELDS 46-008, 009LA, 009LB, 010 REFLECTS THE USE OF TRANSDUCER # J22335. NO CERTIFICATIONS ON FILE TO SUPPORT THIS TRANSDUCER.

Disposition/Corrective Action: THE VA. CORP. HAS NO TRANSDUCER SN J22335, HOWEVER WE DO HAVE A TRANSDUCER SN J22935. THIS IS BELIEVED TO BE AN OPERATOR PAPERWORK ERROR. NO CORRECTIVE ACTION REQUIRED. CERTIFICATIONS ON FILE FOR SN J22935.

Verification of Disposition/Corrective Action:

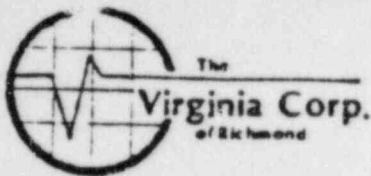
VCR Field Supervisor Daniel Jensen Date: 7-28-83

VCR Quality Assurance Manager: [Signature] Date: 7/28/83

Action to Prevent Recurrence:

Required            Not Required   ✓  

QC: [Signature]

Minor Nonconformance Reported by: JIM DICKENSON (MSS/LPEL)Date: 7-20-83

Description of Minor Nonconformance: WELD DATA REPORT FOR THICKNESS AND 0° SCAN DATED 10-7-82 REFLECTS THE USE OF SONIC MARK I SN 04404E FOR WELD 43-021LA & 44-009LA. NO CERTIFICATION ON FILE.

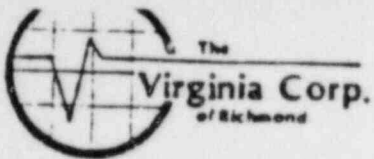
Disposition/Corrective Action: THE VA CORP HAS A SONIC MARK I SN 4404E BUT ON THE DATE OF EXAM THIS MACHINE WAS AT THE MANUFACTURER FOR REPAIR. THIS IS BELIEVED TO BE AN OPERATOR ERROR. CERTIFICATIONS ARE ON FILE FOR SONIC MARK I SN 04405E FOR THE DATE OF 10-<sup>05</sup>X7-82. NO CORRECTIVE ACTION REQUIRED.

Verification of Disposition/Corrective Action:

VCR Field Supervisor Daniel Jensen Date: 7-29-83VCR Quality Assurance Manager Paul B. Blum Date: 7/29/83

Action to Prevent Recurrence:

Required  Not Required QC: Paul B. Blum

Minor Nonconformance Reported by: JAMES DICKENSON (NASS/LP&L)Date: 7-20-83Description of Minor Nonconformance: THICKNESS REPORT DATED 10/9/82 FOR WELD 47-002 REFLECTS USE OF SONIC MARK I SN 05307E. NO CERTIFICATION ON FILE.Disposition/Corrective Action: THE VA. CORP. HAS NO SONIC MARK I SN 05307E HOWEVER WE DO HAVE A SONIC MARK I SN 02307E THAT WAS ON SITE AND CERTIFICATION ON FILE FOR THIS DATE. BELIEVED TO BE OPERATOR ERROR. NO CORRECTIVE ACTION REQUIRED.

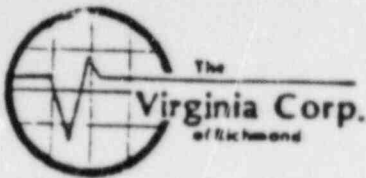
Verification of Disposition/Corrective Action:

VCR Field Supervisor Daniel Jensen Date: 7-28-83VCR Quality Assurance Manager: [Signature] Date: 7/28/83

Action to Prevent Recurrence:

Required  Not Required QC: [Signature]





Minor Nonconformance Reported by: JAMES DICKENSON (MSS/LP/L)

Date: 7-20-83

Description of Minor Nonconformance: DATA REPORT FOR WELD 07-0124 REPORTS THE USE OF PARKER PROBE SN 81M107. NO CERTIFICATION ON FILE.

Disposition/Corrective Action: THE VA. CORP. HAS NO PARKER PROBE SN 81M107. THIS IS A PAPERWORK ERROR. OPERATOR WAS EXAMINED ANOTHER WELD ON THE SAME DAY WITH PARKER PROBE SN 4609. THIS IS BELIEVED TO BE THE CORRECT YOKE. CERTIFICATIONS ON FILE. NO CORRECTIVE ACTION REQUIRED.

Verification of Disposition/Corrective Action:

VCR Field Supervisor Daniel Jensen Date: 7-28-83

VCR Quality Assurance Manager: [Signature] Date: 7/28/83

Action to Prevent Recurrence:

Required        Not Required   V  

QC: [Signature]

Throughout the course of the preservice inspection program some problems we encountered in different areas and should be mentioned for Inservice Inspection.

#### Zones 6-15

As a result of the loop piping diameter and wall thickness, the 45° and 60° examinations were not giving coverage of the I.D. surface on circumferential scans. An additional 30° examination was performed on the 7 & 8 scans for circumferential welds, and 2 & 5 scans for longitudinal welds. See Volume D, procedure ISI-1.1, of this report for ultrasonic scan descriptions.

#### Zone 16

Zone 16 piping is fabricated from centrifugally cast austenitic steel pipe. Due to the grain size of this piping, normal shear wave examination techniques could not be used. As a result of this condition, the examinations were performed with a 45° refracted, longitudinal transducer, and examination was limited to  $\frac{1}{2}$  node. Due to the attenuation characteristics of this material, the distance amplitude curve (DAC) was too steep for adequate interpretation. Consequently, three separate DAC's with different reference gain settings had to be used. To establish the DAC from 3/4T to 1T, a 7/8 I.D. hole and a 1T end mill defect were added to the calibration block for extrapolation of the DAC to 1T. For specific information on this calibration, reference procedure ISI-2.7, Volume D, of this report.

Note: These transducers have been released to Louisiana Power and Light for inservice inspection.

#### Calibration Block UT-115

Calibration block UT-115, 10", schedule 40 has a thickness range from .325" to .375". Due to this condition, calibration for circumferential and longitudinal scans will not be linear when normal calibrated sweep positions are used. Thickness should be verified and appropriate sweep positions used.



TITLE

Conclusion  
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