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Weld Evaluation Project Data Bases for Weld Reinspection Results and Status Reports

Department of Energy
Weld Evaluation Project
TVA Watts Bar Nuclear Plant Unit 1

De Lon 'H' Gardner

Idaho National Engineering Laboratory

U.S. Department of Energy • Idaho Operations Office

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WELD EVALUATION PROJECT DATA BASES FOR WELD REINSPECTION RESULTS AND STATUS REPORTS

DEPARTMENT OF ENERGY WELD EVALUATION PROJECT TVA WATTS BAR NUCLEAR PLANT UNIT 1

De Lon 'H' Gardner

November 1987

U.S. Department of Energy
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ABSTRACT

The United States Department of Energy/Weld Evaluation Project (DOE/WEP) was formed in December 1985 as the result of an interagency agreement between the DOE and the Tennessee Valley Authority (TVA). The project was assigned by the DOE to EG&G Idaho, Inc., for implementation. The DOE/WEP was tasked to perform an independent evaluation of the documented TVA welding program and the as-constructed weld quality with respect to the TVA-performed safety-related welds at the Watts Bar Nuclear Plant Unit 1 (WBNP-1). This is one of ten reports describing the plan, processes, implementation, and results of the DOE/WEP at the plant. This report describes the computerized data base that was formed to administer, report, and control (a) the examination package data and (b) the accumulated inspection results. A total of 40 programs were required to input, edit, update, and prepare 16 examination package data reports. A total of 165 programs were required to input, edit, update, and prepare 12 inspection data reports.

ACKNOWLEDGMENTS

Acknowledgments are extended to the participants in the data base function at the DOE/WEP. In particular, acknowledgment is made of the contributions from D. W. Denier, M. F. DeWitt, R. T. Chung, T. C. Chung, D. Hammerquist, and J. C. Wear.

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DEFINITIONS

SPECIFIC GROUP: A group formed to address a problem that could be isolated to a specific component, or group of components.

SPECIAL GROUP: A group formed to address a specified problem that could not be isolated to specific components, but could be isolated to a certain type of component, configuration, area, system, etc., where quality could be assessed statistically.

GROUPS: Groups formed to investigate the general plant welding quality and to determine if any safety-related issues existed that may not have been otherwise identified. A general group was a logically bounded division of the total population of welded components.

DEVIATION: *Deviation* or *deviant weld* denotes a condition that does not meet the applicable code inspection acceptance criteria for the weldment specified by the engineer. These terms are used before an evaluation of the condition has been performed in accordance with other applicable code provisions to determine the acceptability of the condition.

WELD EVALUATION PROJECT DATA BASES FOR WELD REINSPECTION RESULTS AND STATUS REPORTS

1. INTRODUCTION

United States Department of Energy/Weld Evaluation Project (DOE/WEP) was formed in December 1985 as the result of an interagency agreement between the DOE and the Tennessee Valley Authority (TVA) to provide the TVA with an independent assessment of the quality of safety-related welding performed by the TVA during construction of the Watts Bar Nuclear Plant Unit 1 (WBNP-1). The DOE/WEP was conducted by EG&G Idaho, Inc., as contractor to the DOE.

The specific objectives of the DOE/WEP were to:

1. Assess compliance of the TVA's documented weld program to the requirements in the WBNP Final Safety Analysis Report (FSAR)[1] and amendments through February 1, 1986.
2. Assess applicable TVA employee concerns (ECs) and quality documents to determine if they identify quality problems with the TVA-performed, safety-related welds.
3. Evaluate the TVA's as-constructed plant weld status by conducting an examination of the plant welds, evaluating the results, and when deviations[a] were determined to be unacceptable, analyzing and concurring with the TVA's corrective action proposals for these deviations.
4. Provide the TVA with a statement of the compliance of the plant welds with applicable construction welding codes.

This is one of the ten reports describing the plan, processes, implementation, and results of the DOE/WEP at the WBNP-1. The assessment to meet Objective 1 was accomplished with the completion of the report, "Weld Program Review."[2] The other eight reports are listed as References 3 through 10. In addition to the Weld Program Review cited above, these reports delineate: the program organization and work scope, the formation of homogeneous groupings of welds, the formation of the weld/component data base, the processes of component inspection and examination, the suitability for service evaluation engineering, the generic problem analysis of deviations found during the examinations, and an aggregate assessment of weld reinspection results, and a final summary.

An information processing system was developed to control the numerous documents required on the project. These documents were used by several organizations in the examination and inspection processes performed by the DOE/WEP. The DOE/WEP information system controlled the assembled packages and recorded that the proper activities had taken place. Packages were examined to ensure that all documents were included and, if not, that the missing documents were obtained from the TVA. The number of packages that were being worked simultaneously required a system that would provide fast response to changing requirements and allow the events to be entered into the system accurately and efficiently. Personal computers (PCs) were installed because of their adaptability to a construction environment and capability for growth within the requirements of the information system.

A common data element was assigned to all files created in the information system. This data element, "package number," a combination of the population group number and the assigned element number, was selected to be the key data element. These two data segments were required on all documents in the examination package and on the inspection forms. This data element allowed the correlation of the many data elements required to be retained in the information system. Components selected for examination and inspection retained the elements of the TVA data base as they were selected. Some of these elements were the unique weld identification, location, and number assigned to the group. Data gathering started with

a. *Deviation* or *deviant weld* denotes a condition that does not meet the applicable code inspection acceptance criteria for the weldment specified by the engineer. These terms are used before an evaluation of the condition has been performed in accordance with other applicable code provisions to determine the acceptability of the condition.

the creation of the package from the component selection through package preparation, accessibility determination, component inspection, and recording the characteristics of each weld after inspection. These data were entered into the information system for verifying and controlling the numerous activities required in the implementation of the weld evaluation program.

Recording the dates, on which examination package functions were performed and on which the entry into the information system of the attributes from the weld inspection data was made, provided the bases of the information system as implemented. Administration of the data recorded and maintained in this information system ensured the current status of examination package events and the results of inspections performed. The data were controlled by verification and reconciliation procedures. All corrections and adjustments to data entered into the information system were controlled by entrypoint procedures. The entry forms required for the adjustments authorized to the information system were filed in logs created for that purpose. This information system provided the examination package and inspection data requirements for DOE/WEP reporting.

The development of the inspection data base is described in Section 2. Section 3 describes how the examination packages were tracked and the data base that was designed for that purpose. References are given in Section 4. Abstracts that describe report contents and typical samples of reports produced from the DOE/WEP inspection data base are presented in Appendix A. Included in Appendix A are (a) an index of the kinds of reports available, (b) a descriptive abstract of the contents of each kind of report, and (c) a copy of a one-page sample of each kind of report. Appendix B presents the tracking data base abstracts and report samples. Glossaries of data elements for the inspection data base and the tracking data base are given in Appendixes C and D, respectively.

2. INSPECTION DATA

2.1 Inspection System Overview

Compilation and creation of an inspection tracking data base was begun in April 1986 before the need for recording inspection counts at the attribute level was determined. The required computing equipment was ordered and a support staff recruited. Initial development of the inspection data base was begun using dBaseIII,[11] the same language used by the TVA and EG&G in the examination package tracking system.

Resolution of future communication and interaction requirements was satisfied with the implementation of dBaseIII. Reporting requirements were determined from a "bottom-up" structure using the examination data gathered and the known tracking requirements.

Manual ledgers were kept until data processing programs were developed and tested. Ledgers were maintained on a daily and weekly basis. Weld deviations resulting from inspections of population groups, and items with applicable title references of percent inspected and percent defective, were reported utilizing a graphic software package from Decision Resources called "Sign Master."[12] The actual calculations were performed manually. Other reports also included a summary of the attributes inspected for each weld and the deviant attribute percentages for those welds inspected to Nuclear Construction Issues Group (NCIG-01),[13] American Society of Mechanical Engineering (ASME),[14] and American National Standards Institute (ANSI),[15,16] criteria. The computer printout (raw data summary) was used for internal analysis purposes.

The initial inspection data included package number, type of inspection, and the inspection attributes. The information system maintained by data base personnel provided the necessary elements to form the quantitative analysis required from the physical examination activities of the project.

2.2 Input to the Inspection System

Inspection data was input to the WDTRACK data base from examination forms created to record data from the field in detail. A function on the "Main Menu" allowed for the input of visual examination data or nondestructive examination (NDE) data. Once the data had been input, the menu-driven series of programs controlling this process led the input person through the procedure of selecting the type of examination that had been used. The correct procedure used was based upon the form used: "Visual Examination Record for ASME/ANSI Welds" (WEP Form 302), Weld Operating Sheet Checklist (WEP Form 322), and "Visual Examination Record for NCIG-01 Welds" (WEP Form 305). These forms are presented in the figure section of the Inspection System User's Manual.[17] The Input Procedures are discussed in the User's Guide to the Inspection System User's Manual. The input control programs were written to simplify the process as much as possible. Verification steps were taken by dual entry to insure the accurate transcribing of examination data shown on the respective forms. Spot checks were also made of the attributes reported and those listed on the form in the examination package.

2.3 Maintenance of Inspection Data Base

Other menu functions controlled the editing of the respective data files in the inspection data base. The data base design structure and a data element glossary are listed in Appendix C of this document. The programs driven from these menu functions allowed for edit and update corrections to be entered into the data files as: Visual Examination Data file editing, Radiographic Examination Data file editing, NDE Data file editing.

The inspection data base, WDTRACK, was reconciled to the tracking data base, WTGTRAK, on a weekly schedule before reporting the Raw Data Summary[a] and the Status Report by group, EPT 001, which is shown in Reference 9. Glossaries for WDTRACK and WTGTRAK are presented in Appendixes C and D, respectively. On a periodic basis, WDTRACK was reconciled to the TVA's inspection data base. Any corrections to the data base required a notegram from the responsible DOE/WEP manager to the manager of Project Administration and Control for concurrence, and it was forwarded to the Data Base group for entry

a. The Raw Data Summary comprised five inspection reports: INS 001, INS 002, INS 003, INS 004, and INS 005 (see Reference 9).

into the data base. All corrections or adjustments were processed in accordance with the DOE/WEP Standard Practices WEP 3.3.2 and WEP 3.3.4.

Archival of data retained on the WDTRACK data base was to be performed when a group was closed and the data were no longer required for active reporting purposes. No records were archived from WDTRACK during the project as they all remained active throughout the program.

Backup and recovery protection was provided as a function on the "Main Menu." These menu drive programs provided weekly and monthly backups of the data base and associated programs. The backup provided that the transactions input since the last backup would have to be re-entered when recovery was required. This exposed the inspection data to the least amount of risk. Data were input in batches and were recorded in a control log. The log book provided optimum control for the required investment. Provisions were in the project to use off-site storage in a fireproof medium for the monthly backup cartridges.

Display and inquiry of duplicate examination packages were functions on the menu. This menu driven program provided the ability to check for duplicate records on the WDTRACK data base. The program prompts the user to make decisions to determine what should be placed on the file if there were duplicate records entered.

2.4 Reporting for Inspection Tracking

Inspection results relative to components, welds, and attributes were reported to all the DOE/WEP managers to indicate the status and examination data entered each week. Scheduled reports that were produced are presented in Appendix A with an abstract of the report contents and a typical one-page sample of the report.

One element of inspection data that required further definition was the attribute of the "missing" weld. Three conditions existed in which a weld could be reported as "missing." The "missing" category covers: (a) wrong types of welds installed; (b) a weld that could not be installed because of hardware geometry; and (c) the weld missing.

The closure of examination packages posed several unique situations in processing data for the inspection data base. Records had to be marked as closed and, therefore, new data elements were required to identify packages that had been closed. Records marked as closed were given a revision number to identify them and the records were archived to a separate file for security. New programs were developed to provide for reopening closed packages and the subsequent processing of the data related to the weld information in these inspection packages. For packages that contained NDE only, or were receiving additional NDE tests, a separate NDE input program was developed and all NDE records were placed in a unique NDE data base. These records were added to the "closed inspection" record file.

Specialty programs were developed to communicate inspection data to a statistical analysis program "MINITAB."[18] Other special programs were developed to assist in evaluating and reporting inspection data contained in the DOE/WEP data base.

Special reporting requirements of the inspection tracking data base were required for generic problem analysis and preparation of the aggregate results report. This required special files to be constructed from the inspection data. Additional parameters for geographic location and construction timeframe were added to the inspection tracking data base by the DOE/WEP personnel. Special programs written to report these data were developed in coordination with the cognizant group.

3. EXAMINATION PACKAGE TRACKING DATA

3.1 Tracking System Overview

A data base structure in operation at the TVA for the TVA Weld Task Group (WTG) was utilized to set up the DOE/WEP information system. This data base became the medium for the DOE/WEP's system interface with the TVA. Requirements defined in the DOE/WEP Project Management Plan (PMP)[19] were incorporated into the DOE/WEP information system as the system progressed. This natural progression of requirement definition, to the growth of the information system, enabled the DOE/WEP management to develop new data elements in response to that growth. This system growth and maturation helped the DOE/WEP management assume the control required to create a viable data base management system (DBMS) that provided them with the data analysis capabilities to evaluate the weld program. This evaluation incorporated the package preparation, component accessibility, preparation of the component for inspection, and recording the deviations encountered in either the component or the documentation associated with the component. The deviation revision process required interfacing with the TVA WTG and the other TVA organizations. Once the interface had been completed, concurrence was then sought from the DOE/WEP. When an agreement on the deviation was reached, the deviation was recorded.

One purpose of the information system was to maintain data relative to the examination packages prepared by the DOE/WEP. The examination packages were categorized into general, special, and specific groups. The weld component data for general and special groups were selected from the TVA data base in Chattanooga, TN. Because no download capabilities of mainframe to PC were available, data were key entered locally to input the original tracking data files. Specific groups had to be identified individually and entered manually. The initial data base consisted of 17 data elements and approximately 1700 records for all existing specific, general, and special groups identified in the examination package tracking data base. The initial data base was maintained on an IBM PC-XT and utilized the dBaseIII and associated software. The data structure for the tracking data base management system (DBMS) consisted of 46 data elements and 17,000 records. The hardware for the information system for tracking was upgraded to an IBM PC-AT, and utilized the dBaseIII language and its associated software.

3.2 Input to the Tracking System

Input verification procedures were created and installed and the reconciliation of the data bases between tracking, the TVA, and inspection was conducted. All input forms and input sheets were filed in control books by date. Regular comparison checks of the data base to the control books assisted in detecting errors. Backup procedures for the data base and program control files were installed to ensure that recovery from a loss of data was possible.

Data entry to the tracking data base was controlled by input procedures with operator password controls. The input procedures were "menu" driven and provided control of access to the system. Specific data were entered and checked to the data base at the time of input. Verification of the data entered was accomplished by printed hard copy and a visual check of the input documents. These procedures were documented in the Tracking System User's Manual.[20]

3.3 Maintenance of the Tracking System

Maintenance of the tracking system data base was controlled by employing a "menu" driven series of programs. The structure of each element in the data base is defined in Appendix D. These programs allowed updating the data base with edited data from the following input procedures:

- ADD Function — allowed adding new groups, new items, or revisions to the data base. Data base verification was accomplished to ensure that the group, item, or revision did not already exist on the data base in either an active or inactive status.
- UPDATE Function — allowed the user to correct any errors that had been entered into the tracking data base. A hard copy report was created that provided an audit trail of actions against the data base. If a deletion was required because of mistakes, the correction caused hard copy reports to be generated to provide a necessary audit

document. Updates were not entered directly into the tracking data base, but were entered to an update file that then applied the update transactions to the data base.

- ARCHIVE Function — allowed removing and saving records from the tracking data base that were no longer required. Components were archived from the active data base when the total number of accessible components had been reached. This action was necessitated because frequently more components were selected from the TVA data base than were required to ensure an adequate number of random samples were available after inaccessibility criteria had been addressed.
- BACKUP/RECOVERY Function — allowed for a circumstance where either a file or the entire data base became unavailable because of hardware failure, power failure, or other occurrences that rendered the current version of the data base unusable. The backup portion of the function ensured that the previous cycle was maintained in a separate location to allow for the recovery of a file in the tracking data base. Also, there was the provision for a weekly backup in an off-site fireproof storage medium. ("Off-site" in this instance refers to a building location other than the one where the data base was maintained.)
- DISPLAY Function — allowed the user to inquire into the data base to provide access to data already input. This inquiry function was programmed to allow inquiry access to those who had access to the data base. Other access was accomplished through one of the Data Base group personnel.

3.4 Reporting for the Tracking System

Information for examination package tracking was compiled and reported using tracking reports that allowed managers to monitor the progress of package walkdown, package and weld preparation, and examination. The content of the reports changed to accommodate the changes in priorities, which controlled the progress of the project. Other reports were developed that helped coordinate the preparation of examination packages and components. Special analysis runs were made to identify errors and track examination packages. Ad hoc reports, created at the request of the project personnel to satisfy various needs, were in several sequences and utilized various report formats. All reports were given a number for control purposes, and the numbers and titles were distributed to all report users. The scheduled production reports are indexed in the "Tracking Report Abstracts" section of Appendix B.

4. REFERENCES

1. *Tennessee Valley Authority Watts Bar Nuclear Plant Final Safety Analysis Report*, and amendments through February 1, 1986, Tennessee Valley Authority, Chattanooga, TN.

2. W. H. Borter, *Weld Program Review*, DOE/ID-10152, December 1986.

3. S. M. Bradford, *WEP Organization and Work Scope*, DOE/ID-10175-1, November 1987.

4. S. M. Bradford, *WEP Formation of Homogeneous Groupings of Welds*, DOE/ID 10175-2, November 1987.

5. J. M. Savage, *WEP Formation of Weld/Component Data Base*, DOE/ID-10175-7, November 1987.

6. D. A. Armour, *WEP Component Inspection and Examination Process*, DOE/ID-10175-4, November 1987.

7. R. K. Blandford, *WEP Suitability for Service Evaluation Engineering Process*, DOE/ID-10175-5, November 1987.

8. L. C. Brown, *WEP Generic Problem Analysis Process*, DOE/ID-10175-6, November 1987.

9. L. C. Brown and R. J. Wade, *WEP Aggregate Results of Weld Assessments*, DOE/ID-10175-8, November 1987.

10. F. C. Fogarty, *Weld Evaluation Project Final Report*, DOE/ID-10175-9, November 1987.

11. "dBASE III PLUS" is a product of Ashton-Tate, 20101 Hamilton Avenue, Torrance, CA 90502-1319, (213) 837-9333.

12. "CHART-MASTER" and "SIGN-MASTER" are products of Decision Resources, Inc., 25 Sylvan Road South, Westport, CN 06880, (203) 222-1974.

13. Nuclear Construction Issues Group "Visual Weld Acceptance Criteria for Structural Welding at Nuclear Power Plants," Rev. 2, NCIG-01, May 1985.

14. The American Society of Mechanical Engineers, "Rules for Construction of Nuclear Power Plant Components," ASME Boiler and Pressure Vessel Code, Section III-Division 1, 1971 Edition with Summer 1973 Addenda.

15. The American Society of Mechanical Engineers, "Power Piping," ANSI B31.1, 1973 through Winter 1973.

16. The American Society of Mechanical Engineers, "Refrigeration Piping," ANSI B31.5-1966.

17. R. T. Chung and D. H. Gardner *Inspection System User's Manual*, September 1987.

18. "MINITAB" is a product of Minitab Inc., 3081 Enterprise Drive, State College, PA 16801 (814) 238-3280.

19. *Project Management Plan for the Department of Energy Weld Evaluation Project TVA Watts Bar Nuclear Plant Unit 1*, EG&G-WEP-86-003, January 28, 1987.

20. J. C. Wear and D. H. Gardner, *Tracking System User's Manual*, August 1987.

21. "CLIPPER" is a product of Nantucket Corporation, 5995 South Sepulveda Boulevard, Culver City, CA 90230, (213) 390-7923.

22. "CROSSTALK" is a product of Microstuff, Inc., 1000 Halcomb Woods Parkway, Suite 440, Roswell, GA 30076, (404) 998-7798.

23. "KEDIT" is a product of Mansfield Software Group, Post Office Box 52, Storrs, CN 06268, (203) 429-8402.

24. "SlideWrite Plus" is a product of Advanced Graphics Software, Inc., 333 West Maude Avenue, Suite 105, Sunnyvale, CA 94086, (408) 749-8620.

25. "1-2-3" is a product of Lotus Development Corporation, 55 Cambridge Parkway, Cambridge, MA 02142, (617) 253-9150.

APPENDIX A

ABSTRACTS AND TYPICAL SAMPLES OF REPORTS FROM INSPECTION DATA BASE

(EXAMPLES ONLY)

APPENDIX A

ABSTRACTS AND TYPICAL SAMPLES OF REPORTS FROM INSPECTION DATA BASE

INSPECTION REPORT ABSTRACTS

REPORT TITLE	PAGE
INS 001 Inspection Data Report	A-3
INS 002 Inspection Data Summary of NDE	A-5
INS 003 Inspection Data Summary of Visual Tests	A-7
INS 004 Inspection Data Summary on Plant Exams	A-9
INS 005 Inspection Data Summary on all Groups	A-11
INS 006 Inspection Data Summary of WOS Evaluations	A-13
INS 007 Reconciliation Between WTGTRAK & WDTRACK	A-15
INS 008 WEP Inspection Results	A-17
INS 009A Listing by Weld (MINITAB)	A-26
INS 009B Listing by Package (MINITAB)	A-26
INS 010 Group/Package Detail Listing (All Tests)	A-29
INS 011 List of Packages with Missing Welds	A-34
INS 012 List of Packages with Tack Welds	A-36
INS 013 List of Packages with Cracked Welds	A-38
INS 014 List of Packages with TVA SVS	A-40
INS 015 List of AWS Welds by Selected Group	A-42
INS 016 List of Packages That Are Open	A-44
INS 017 WEP Radiography Review Results	A-46
INS 018 WEP Radiography Review List of Deviant Packages	A-48
INS 101 Inspection Data Report on Weld Evaluation Project	A-50
INS 201 Inspection Data Report of ASME, ANSI, AWS Welds	A-52

INS 001 Inspection Data Report

Inspection Data Report on each group, listing the minimum number of components to be inspected, % inspected (number of inspections completed), % component deviant (number of components deviant), total number of welds, % of welds deviant (number of welds deviant); total number of characteristics, % characteristics deviant (number of deviant characteristics). Only the visual examination attributes were listed with 4 columns stating number of deviations, how many times each attribute was inspected and the percent deviant for each.

All groups with visual examinations performed were printed. The groups with nondestructive examinations were included as a summary entry on the bottom of each group page.

This report was distributed weekly .

INS 001 Inspection Data Report

09/02/87
07:02:03
INS 001-R1

SUMMARY OF INSPECTION DATA REPORT

TOTAL NUMBER OF COMPONENTS:	2181
% OF TOTAL COMPONENT DEVIANT:	39.39 (859)
TOTAL NUMBER OF WELDS:	15842
% OF TOTAL WELD DEVIANT:	21.21 (3360)
TOTAL NUMBER OF ATTRIBUTES:	149011
% OF TOTAL ATTRIBUTE DEVIANT:	3.03 (4508)
% OF COMPONENT WITH DOCUMENT DEVIANT:	0.87 (19)

NOTE:

TVA Prior Resolutions have been removed.
All attributes included in total numbers.
Component deviant summary includes components
with any deviant attributes .

A* = Total deviants for this attribute in that group.
B* = Number of times this attribute checked.
C* = Deviation Perc. (Column A / # times attribute checked) * 100
D* = % deviants for this attribute. (Column A / Sum of Column A)

09/02/87
07:02:14
INS 001-R1

INSPECTION DATA REPORT ON WELD EVALUATION PROJECT

GROUP DESIGNATOR: 002
GROUP TITLE: EC-SP-2, SPREADER ROOM F/P INSUFFICIENT WELD MATL.
NO. OF INSPECTION TO BE PERFORMED: 2
% INSPECTED (ACTUAL NUMBER INSPECTED): 100.00 (2)
% OF COMPONENTS DEVIANT: 100.00 (2)
TOTAL NUMBER OF WELDS: 2
% OF WELDS DEVIANT: 100.00 (2)
TOTAL CHARACTERISTICS: 18
% CHARACTERISTIC DEVIANT: 27.78 (5)

ATTRIBUTES FOR THE VISUAL EXAMINATION:

	A*	B*	C*	D*
1. Cracks (Linear Indications).....	0	2	0.00	0.00
2. Overlap	0	0	0.00	0.00
3. Undercut.....	0	2	0.00	0.00
4. Lack of Fusion.....	0	2	0.00	0.00
5. Incomplete Penetration.....	0	0	0.00	0.00
6. Slag	0	2	0.00	0.00
7. Visible Porosity.....	0	2	0.00	0.00
8. Weld Spatter	1	2	50.00	20.00
9. Arc Strikes	2	2	100.00	40.00
10. Coarse Ripples.	0	0	0.00	0.00
11. Grooves.....	0	0	0.00	0.00
12. Abrupt Ridges.	0	0	0.00	0.00
13. Valleys.....	0	0	0.00	0.00
14. Min Sect Thickness.	0	2	0.00	0.00
15. Taper.....	0	0	0.00	0.00
16. Maximum Offset.....	0	0	0.00	0.00
17. Reinforcement.....	2	2	100.00	40.00
18. Fillet/Socket Weld Size.....	0	0	0.00	0.00

No. of inaccessible welds 0

INS 002 Inspection Data Summary of NDE

Inspection Data Summary Report on NDE tests.

This report listed the type of Nondestructive Examinations performed to each group: Liquid Penetrant Test, Magnetic Particle Test, Ultrasonic Test and Radiographic Test. It also listed the number of components inspected, number of welds inspected, percent component deviant, percent weld deviant for each test.

This report was distributed weekly.

INS 002 Inspection Data Summary of NDE

09/02/87 PAGE 1
07:16:48
INS 002-R0

INSPECTION DATA SUMMARY REPORT ON NDE TESTS

GROUP DESIGNATOR: 003
GROUP TITLE: EC-SP-3, S. VALVE ROOM STRL. WELDS SUBSURFACE DEF
GROUP SIZE: 2

Type Of NDE Test	Inspected Comp.	Inspected Weld	Component % Deviant	Welds % Deviant
DYE PENETRANT	0	0	0.00(0)	0.00(0)
MAG. PARTICLE	0	0	0.00(0)	0.00(0)
ULTRASONIC	2	2	50.00(1)	50.00(1)
RADIOGRAPHIC	0	0	0.00(0)	0.00(0)

GROUP DESIGNATOR: 004
GROUP TITLE: EC-SP-4, SLUGGED SEAM WELDS ON BOX ANCHORS
GROUP SIZE: 2

Type Of NDE Test	Inspected Comp.	Inspected Weld	Component % Deviant	Welds % Deviant
DYE PENETRANT	0	0	0.00(0)	0.00(0)
MAG. PARTICLE	0	0	0.00(0)	0.00(0)
ULTRASONIC	2	4	50.00(1)	25.00(1)
RADIOGRAPHIC	0	0	0.00(0)	0.00(0)

GROUP DESIGNATOR: 006
GROUP TITLE: RHR 14" SS REDUCED WALL EVALUATION
GROUP SIZE: 2

Type Of NDE Test	Inspected Comp.	Inspected Weld	Component % Deviant	Welds % Deviant
DYE PENETRANT	0	0	0.00(0)	0.00(0)
MAG. PARTICLE	0	0	0.00(0)	0.00(0)
ULTRASONIC	0	0	0.00(0)	0.00(0)
RADIOGRAPHIC	2	2	0.00(0)	0.00(0)

INS 003 Inspection Data Summary of Visual Tests

Inspection Data Summary Report for Visual Tests.

This printout was the summary of INS001 for each group. It listed the component, weld, and attributes inspected and their deviant rate, without the individual attributes listed.

The report listed Special, Specific and General Groups separately.

This report was distributed weekly.

INS 003 Inspection Data Summary of Visual Tests

09/02/87
07:18:48
INS 003-R0

PAGE 1

EXAMINATION PACKAGE INSPECTION DATA SUMMARY

TOTAL NUMBER OF COMPONENTS EXAMINED: 2181

TOTAL NUMBER OF WELDS EXAMINED: 15842

TOTAL NUMBER OF CHARACTERISTICS EXAMINED: 149011

% OF CHARACTERISTICS DEVIANT: 3.03 (4508)

09/02/87
07:19:09
INS 003-R0

PAGE 2

INSPECTION DATA SUMMARY FOR SPECIFIC GROUPS

GROUP DESIGNATOR: 002

GROUP TITLE: EC-SP-2, SPREADER ROOM F/P INSUFFICIENT WELD M

TOTAL NO. OF EXAMINATION PACKAGES: 2

% INSPECTIONS COMPLETED: 100.00 (2)

TOTAL NUMBER OF WELDS: 2

TOTAL NO. OF CHARACTERISTICS: 18

% CHARACTERISTICS DEVIANT: 27.78 (5)

GROUP DESIGNATOR: 003

GROUP TITLE: EC-SP-3, S. VALVE ROOM STRL. WELDS SUBSURFACE

TOTAL NO. OF EXAMINATION PACKAGES: 2

% INSPECTIONS COMPLETED: 100.00 (2)

TOTAL NUMBER OF WELDS: 2

TOTAL NO. OF CHARACTERISTICS: 21

% CHARACTERISTICS DEVIANT: 4.76 (1)

INS 004 Inspection Data Summary on Plant Exams

Inspection Data Summary Report WBNP #1 Plant Visual Examinations.

This was a one page summary report of visual tests. It listed the component category, sample size, components inspected, percent component deviant; welds inspected, percent weld deviant; attributes inspected and percent attribute deviant. The category separates ASME, ANSI, and AWS for Special, Specific and General groups.

This report was distributed weekly.

09/30/87
14:36:16
INS 004-R0

INSPECTION DATA SUMMARY REPORT WBNP #1 PLANT VISUAL EXAMINATIONS

		COMPONENTS		WELDS		ATTRIBUTES	
COMPONENT CATEGORY	Sample Size	Number Insptd	Percent Deviant	Number Insptd	Percent Deviant	Number Insptd	Percent Deviant
ALL	2182	2182	39.32	15849	21.19	149088	3.02
ASME	593	593	35.08	597	35.18	6278	6.15
ANSI	163	163	50.31	163	50.31	1442	8.04
AWS	1426	1426	39.83	15089	20.33	141368	2.83
SPECIFIC	79	79	43.04	707	31.12	6709	5.01
SPECIAL	1283	1283	38.43	8199	22.50	68880	3.68
GENERAL	820	820	40.37	6943	18.64	73499	2.23

INS 005 Inspection Data Summary on all Groups

This report listed the Visual and NDE results for Original Populations, Additional Populations and Expansion Populations. It listed the Group designator, category, title, minimum sample size, components inspected, % components deviant, welds inspected, % welds deviant, attributes inspected, and % attributes deviant. It also listed totals for the overall % component deviant and overall % weld deviant for each nondestructive examination.

This report was included in the weekly printout.

Reports INS001 through INS005 were printed each Tuesday morning. In order to get the updated inspection results, before printing these reports, program STATUS had to be run overnight (every Monday), so that information was updated as a part of Monday's inspection data.

INS 005 Inspection Data Summary on all Groups

09/30/87
14:37:03
INS 005-R1

Original Populations -- Visual Test Results Only

POPULATION			SAMPLE Size	COMPONENTS Insptd	COMPONENTS % Dev.	WELDS Insptd	WELDS % Dev.	ATTRIBUTES Insptd	ATTRIBUTES % Dev.
A	ASME	ASME SMALL BORE PIPE	64	64	32.81(21)	64	32.81(21)	742	4.31(32)
B	ASME	ASME LARGE BORE PIPE	74	74	47.30(35)	74	47.30(35)	968	7.64(74)
C	ANSI	ANSI B31.1 , B31.5	107	107	56.07(60)	107	56.07(60)	990	8.79(87)
D	NCIG	CIVIL, POST FEB 1981	67	67	28.36(19)	923	13.33(123)	9637	1.15(111)
E	NCIG	CIVIL, PRE FEB. 1981	64	64	59.38(38)	2105	26.56(559)	22108	3.27(724)
F	NCIG	PIPE SUPPORTS (NCIG)	65	65	23.08(15)	316	8.54(27)	3328	0.69(23)
G	NCIG	I&C SUPPORTS, POST FEB. 1981	66	66	33.33(22)	272	15.44(42)	2783	1.47(41)
H	NCIG	I&C SUPPORTS, PRE. FEB. 1981	57	57	56.14(32)	268	22.76(61)	2790	2.47(69)
I	NCIG	ELECTRICAL SUPPORTS, POST FEB. 1981	64	64	17.19(11)	227	12.78(29)	2384	1.34(32)
J	NCIG	ELECTRICAL SUPPORTS, PRE FEB. 1981	64	64	53.13(34)	504	35.12(177)	5172	4.49(232)
K	NCIG	HVAC SUPPORTS, POST FEB. 1981	64	64	26.56(17)	978	6.13(60)	10545	0.83(87)
L	NCIG	HVAC SUPPORTS, PRE FEB. 1981	64	64	42.19(27)	1105	9.05(100)	12052	1.05(126)
002	ANSI	EC-SP-2, SPREADER ROOM F/P INSUFFICIENT WELD MATL.	2	2	100.00(2)	2	100.00(2)	18	27.78(5)
003	NCIG	EC-SP-3, S. VALVE ROOM STRL. WELDS SUBSURFACE DEF.	2	2	50.00(1)	2	50.00(1)	21	4.76(1)
004	NCIG	EC-SP-4, SLUGGED SEAM WELDS ON BOX ANCHORS	2	2	0.00(0)	4	0.00(0)	40	0.00(0)
006	ASME	RHR 14" SS REDUCED WALL EVALUATION	2	2	0.00(0)	2	0.00(0)	29	0.00(0)
008	ASME	EC-SP-8, SYS. 78 ARC STRIKES/METAL EXCAV.	4	6	66.67(4)	6	66.67(4)	14	28.57(4)
009	ASME	EC-SP-9, SYS. 72 RB SPRAY @ 713 ARC STRIKES	2	2	100.00(2)	2	100.00(2)	4	50.00(2)
012	NCIG	EC-SP-12, S. VALVE ROOM CRACKED WELDS	2	2	50.00(1)	2	50.00(1)	20	10.00(2)
013	ASME	ERCW 8" LINES @ UNIT 1 ANULUS ENTRY	26	26	46.15(12)	26	46.15(12)	390	4.62(18)
014	NCIG	LOOP 3 AND 4 T-BAR SHIMS @ 718	4	4	50.00(2)	35	14.29(5)	385	2.08(8)
015	NCIG	EC-SP-15, BLACK&VEACH WELD DELETION	13	13	30.77(4)	188	6.38(12)	2052	0.49(10)
018	ASME	EC-SP-18, RT NOT PREFORMED AFTER A REPAIR	1	1	0.00(0)	1	0.00(0)	15	0.00(0)
020	ASME	WELD 1-0038-T080-06 FINAL NDE	1	1	100.00(1)	1	100.00(1)	9	11.11(1)
021	NCIG	EC-SP-21, STRUCTURAL STEEL PARTITION WALL INSP.	1	1	100.00(1)	279	42.29(118)	2468	6.77(167)
022	NCIG	EC-SP-22, HVAC FRAMES WITH 4" BY 5" CUTOUTS	1	1	100.00(1)	60	96.67(58)	312	36.54(114)
026	NCIG	EC-SP-26, HVAC SUPPORTS NOT INSPECTED	2	2	0.00(0)	72	0.00(0)	729	0.00(0)
029	ASME	EC-SP-29, UNDERSIZED SOCKET WELDS ON ASME PIPE	8	8	25.00(2)	8	25.00(2)	8	25.00(2)
032	NCIG	EC-SP-32, DEFECTIVE WELD ON HGR 70-ICC-R487	1	1	100.00(1)	8	25.00(2)	88	2.27(2)
034	ASME	EC-SP-34, CRACK IN VALVE BODY/WELD ZONE	2	2	0.00(0)	2	0.00(0)	30	0.00(0)
202	NCIG	AUX BLD ELECTRICAL SUPPORTS AT 713' (1980 - 1981)	64	64	32.81(21)	363	16.53(60)	3796	2.66(101)
208	ANSI	SYSTEM 62,63,68 DRAIN HEADERS THREAD-O-LETS	56	56	39.29(22)	56	39.29(22)	452	6.42(29)
210	ASME	WELDER QUALIFICATION BACK-DATE QUESTION	60	60	16.67(10)	60	16.67(10)	675	1.93(13)
212	ASME	OPEN BUTT WELDING @ CONTAINMENT PENETRATIONS	52	52	28.85(15)	52	28.85(15)	52	28.85(15)
214	NCIG	WINTER 1983 FABRICATED N/S VALVE ROOM STEEL	92	61	26.23(16)	177	17.51(31)	1886	2.12(40)
219	NCIG	CONTROL BUILDING DUCTWORK SUPPORT WELDS	61	61	32.79(20)	837	7.41(62)	8989	0.66(59)
220	ASME	ASME SMALL BORE PURGE VERIFICATION	5	5	40.00(2)	5	40.00(2)	39	5.13(2)
222	NCIG	PRE JAN 1981 PLATFORMS,STAIRS,LADDERS AS-BUILTS	50	50	72.00(36)	1741	27.34(476)	18124	3.18(576)
224	ASME	PRESSURE BOUNDARY WELDING VISUAL FINAL ACCEPTANCE	64	64	50.00(32)	64	50.00(32)	803	8.84(71)
225	NCIG	CONDUIT SUPPORTS @ CONTROL BLD. EL. 708'	62	62	43.55(27)	207	19.81(41)	2125	2.92(62)
227	NCIG	SURGE LINE TRUSS STIFFENERS FIT-UP	35	35	37.14(13)	159	12.58(20)	1663	1.02(17)

INS 006 Inspection Data Summary of WOS Evaluations

Inspection Data Summary Status of WOS Evaluation.

This report evaluated the information in the database regarding the Form WEP 322. The cover sheet printed the total number of ASME, ANSI, and AWS packages requiring WEP Form 322. The number of packages with insufficient information on the TVA Weld Operation Sheet (WOS) was then listed by group.

The subsequent pages listed package numbers which had rejectable entries on WEP Form 322, and whether it was:

1 = Item returned to TVA for additional documentation or *2* = No further documentation was available; DR transferred to TVA.

This report was printed upon request.

INS 006 Inspection Data Summary of WOS Evaluations

09/30/87
13:28:54
INS 006-R1

INSPECTION DATA SUMMARY STATUS OF WOS EVALUTIONS

Total ASME packages requiring Form WEP 322 : 714

Total ANSI packages requiring Form WEP 322 : 175

Total AWS packages requiring Form WEP 322 : 1417

Total AWS welds : 15252

Packages with no welding procedure.....	14.15 %	(101)	(ASME WELDS)
Packages with no welder indicated.....	12.32 %	(88)	(ASME WELDS)
Packages with no indication of filler matl..	14.43 %	(103)	(ASME WELDS)
Packages without required NDE REPORT.....	13.59 %	(97)	(ASME WELDS)
Welds without Visual NDE record.....	3.95 %	(602)	(AWS D1.1 WELDS)
(Packages without Visual NDE record).....	4.73 %	(67)	
Packages with no WELDER ID marked.....	58.86 %	(103)	(ANSI WELDS)

INS 007 Reconciliation Between WTGTRAK & WDTRACK

INS007 Reconciliation between WTGTRAK.DBF and WDTRACK.DBF.

This program compared the tracking database WTGTRAK and inspection database WDTRACK. The packages in WDTRACK.DBF but not in WTGTRAK.DBF was printed in the first column. The packages in WTGTRAK.DBF, but not in WDTRACK.DBF was printed in the second column. A total was shown at the end of the report for the number of packages in each column.

INS 007 Reconciliation Between WTGTRAK & WDTRACK

09/30/87
13:49:48
INS 007-R0

WTGTRAK and WDTRACK Reconciliation for the Week of 09/30/87

Components in ..WDTRACK..	Components in ..WTGTRAK..
219-0008	
219-0019	
219-0042	
219-0062	
219-0065	
219-0069	
222-0004	
222-0019	
222-0026	
222-0027	
222-0031	
222-0052	
222-0054	
222-0062	
222-0063	
222-0073	
230-0027	
249-0021	
249-0022	
249-0053	
249-0198	
249-0225	
249-0297	
249-0308	
249-0319	
249-0363	
249-0364	
249-0365	
249-0391	
249-0397	
249-0404	
249-0412	
249-0413	
249-0414	
249-0447	
249-0458	
249-0479	
249-0480	
249-0525	
249-0543	
249-0569	
249-0599	
249-0612	
249-0621	

INS 008 WEP Inspection Results

WEP Inspection Results per group.

This report listed the package number, weld number, type of test, and whether the test was acceptable or rejectable. It also listed the test results on all the attributes and the relevant data. At the end of the report, it listed the total number of packages in the group, and the acronyms list.

This report was printed per special request from the Employee Concern/Quality Indicator Assessment Group.

Single groups were available for individual group analysis.

INS 008 WEP Inspection Results

Date: 09/30/87 WELD EVALUATION PROJECT -- INSPECTION RESULTS Page: 1
Time: 13:55:05
INS008-RO GROUP 004 -- EC-SP-4, SLUGGED SEAM WELDS ON BOX ANCHORS

PACKAGE	WELD	WELD TYPE	DOCUMENTATION	CORRECTIVE ACTION	WELD LOCATION	INSPECTION	OVERRIDE	CRITERIA	PROCEDURE	FORM	LAST NDE	NDE INDICATION	NDE LOCATION	NDE & SIZE	NDE TYPE	NDE INDICATION	NDE LOCATION	CRITERIA	NDE & SIZE	NDE TYPE	RESULT
004-0001	1.00	GT	T	A	A	N	A	A	A	A	A	A	A	A	A	N	N	N	N		
004-0001	1.00	UT	T	A																	
004-0001	2.00	GT	T	A	A	N	A	A	A	A	A	A	A	A	A	N	N	N	N		
004-0001	2.00	UT	F	A			R														
004-0002	1.00	GT	T	A	A	N	A	A	A	A	A	A	A	A	A	N	N	N	N		
004-0002	1.00	UT	T	A																	
004-0002	2.00	GT	T	A	A	N	A	A	A	A	A	A	A	A	A	N	N	N	N		
004-0002	2.00	UT	T	A																	

Total No. of Packages in this group: 2

NOTE:

A = Accept; R = Reject; N = Not Applicable; Incomplete Penetration
F = False; T = True
VT = Visual Test/ASME; UT = Ultrasonic Test; MT = Magnetic Particle Test
GT = Visual Test/NCIG; RT = Radiographic Test; PT = Penetrant Test
Under NDE_INDICATION: R = Rounded Indication; L = Linear Indication
Under Documentation: R = Item returned to TVA for more information
X = Insufficient Documentation in WOS

Date: 09/13/88 WELD EVALUATION PROJECT -- INSPECTION RESULTS Page: 1
Time: 20:12:30
INS008-R0 GROUP B -- ASME LARGE BORE PIPE

PACKAGE	WELD	WELD TYPE	TEST	PROCEDURE	WELDER	FINISH	WELD DEFECT	CRACK	DOUBLE VERIFICATION	UNDERCUT	LACK OF PENETRATION	INCOMPLETE FUSION	SLAG	POROSITY	SPATTER	ARC STRIKE	RIGHT PIPE	GROOVE	RIGHT DIGITS	VALVE	MINIMUM THICKNESS	TAPER	MAXIMUM THICKNESS	REINFORCEMENT	WELD SIZE	ACCEPTANCE	NDE	RAD
B-0001	1.00	PT	T	A	A	A	A																				A	
B-0001	1.00	VT	T	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	N	A	N	N		
B-0003	1.00	PT	T	A	A	A	A																				A	
B-0003	1.00	VT	T	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	N	A	N	N		
B-0004	1.00	VT	F	A	A	A	A	A	N	A	A	N	A	A	R	R	N	N	N	N	A	A	N	A	N	N		
B-0005	1.00	VT	F	A	A	A	A	A	N	A	A	N	N	A	A	R	N	N	N	N	A	A	N	A	N	N		
B-0006	1.00	VT	T	A	A	A	A	A	N	A	A	N	A	A	A	A	N	N	N	N	A	A	N	A	N	N		
B-0008	1.00	RT	T	A	A	A	A	A		A	A	A	A	A														A
B-0008	1.00	VT	T	A	A	A	A	A	N	A	A	N	A	A	A	A	N	N	N	N	A	A	N	A	N	N		
B-0010	1.00	RT	T	A	A	A	A	A		A	A	A	A	A														A
B-0010	1.00	VT	F	A	A	A	A	A	A	A	A	N	A	A	A	R	A	A	A	A	A	R	N	R	N	N		
B-0012	1.00	PT	T	A	A	A	A																				A	
B-0012	1.00	VT	T	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	N	N	N	N	N		
B-0013	1.00	PT	T	A	A	A	A																				A	
B-0013	1.00	VT	T	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	N	A	N	N		
B-0014	1.00	MT	F	A	A	A	A																				L	
B-0014	1.00	VT	F	A	A	A	A	A	R	A	R	N	A	R	R	R	A	A	A	A	A	A	N	A	N	N		
B-0015	1.00	RT	F	A	A	A	A	A		A	R	A	A	A														A
B-0015	1.00	VT	T	A	A	R	A	A	N	A	A	N	A	A	A	A	N	N	N	N	A	A	A	A	N	N		
B-0017	1.00	PT	T	A	A	A	A																				A	
B-0017	1.00	RT	F	A	A	A	A	A		A	A	A	A	A														R
B-0017	1.00	VT	T	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	N	A	N	N		
B-0020	1.00	VT	F	A	A	A	A	A	N	A	A	N	A	A	A	R	N	N	N	N	A	A	N	A	N	N		
B-0021	1.00	VT	T	A	A	A	A	A	N	A	A	N	A	A	A	A	N	N	N	N	A	A	N	A	N	N		

PACK	WELD	WELD	TEST	PIPE DIAMETER	WALL THICKNESS	CORROSION	UNCORRECTED	LEAK CHECK	INSPECTION	SUPPORT	PROCEDURE	ACCEPTANCE	RIGHT	RIGHT	GRID	RIGHT	VALVE	MISSING	TAPE	MAXIMUM	RESERVE	WELD	ACCEPTANCE	NDE	RADIOGRAPHY
B-0022	1.00	PT	T	A	A	A	A																	A	
B-0022	1.00	RT	F	A	A	A	A	A		A	A	A	A	A											R
B-0022	1.00	VT	T	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	N	A	N	N
B-0023	1.00	RT	T	A	A	A	A	A		A	A	A	A	A											A
B-0023	1.00	VT	T	A	A	A	A	A	N	A	A	N	A	A	A	A	N	N	N	N	A	A	N	A	N	N
B-0024	1.00	VT	F	A	R	A	A	A	N	A	A	N	A	A	A	R	N	N	N	N	A	A	N	A	N	N
B-0025	1.00	MT	T	A	A	A	A																	A	
B-0025	1.00	VT	T	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	N	A	N	N
B-0026	1.00	RT	T	A	A	A	A	A		A	A	A	A	A											A
B-0026	1.00	VT	T	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	N	A	N	N
B-0027	1.00	MT	T	A	A	A	A																	A	
B-0027	1.00	VT	F	A	A	A	A	A	A	A	A	N	A	A	A	R	A	A	A	A	A	A	N	A	N	N
B-0029	1.00	RT	F	A	A	A	A	N		N	N	N	N	N											A
B-0029	1.00	VT	T	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	N	A	N	N
B-0030	1.00	PT	T	A	A	A	A																	A	
B-0030	1.00	VT	F	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	N	N	A	N	R
B-0031	1.00	VT	T	A	A	A	A	A	A	A	A	N	A	A	A	A	N	N	N	N	A	A	N	A	N	N
B-0032	1.00	MT	F	A	A	A	A																	L	
B-0032	1.00	VT	T	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	N	A	N	N
B-0033	1.00	PT	T	A	A	A	A																	A	
B-0033	1.00	VT	T	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	N	A	N	N
B-0034	1.00	VT	F	A	A	A	A	A	N	A	A	N	A	A	A	R	N	N	N	N	A	A	N	A	N	N
B-0036	1.00	PT	T	A	A	A	A																	A	
B-0036	1.00	VT	F	A	A	A	A	A	A	A	A	R	A	A	A	A	A	A	A	A	A	N	N	R	N	N
B-0037	1.00	RT	F	A	A	A	A	A		A	R	A	A	A											A

PACKAGE	WELD	WELD TYPE	TESTS	PIPE DIAMETER	WALL THICKNESS	CRACK DIRECTION	CRACK LOCATION	CRACK DIMENSIONS	VOLUMETRIC	LACK OF FUSION	INADEQUATE PENETRATION	SLAG	POROSITY	SPATTER	ARC STRIKE	IRIDIDE	GROOVE	DIGGING	VALLEY	MINIMUM THICKNESS	TAPER	MAXIMUM FOCUS	REINFORCEMENT	WELD SIZE	ACCEPTANCE	NDE	RADIATION
B-0037	1.00	VT	T	A	A	A	A	A	N	A	A	N	A	A	A	A	N	N	N	N	A	A	N	A	N	N	
B-0038	1.00	RT	T	A	A	A	A	A		A	A	A	A	A													A
B-0038	1.00	VT	T	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	N		
B-0039	1.00	MT	T	A	A	A	A																			A	
B-0039	1.00	VT	F	A	A	A	A	A	A	R	A	N	A	A	A	A	A	A	A	A	A	N	N	N	R	N	
B-0041	1.00	VT	T	A	A	A	A	A	N	A	A	N	A	A	A	A	N	N	N	N	A	N	N	A	N	N	
B-0042	1.00	RT	T	A	A	A	A	A		A	A	A	A	A													A
B-0042	1.00	VT	T	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	A	A	N	N	
B-0043	1.00	VT	F	A	A	A	A	A	N	A	A	N	A	A	A	R	N	N	N	N	A	A	N	A	N	N	
B-0044	1.00	PT	T	A	A	A	A																			A	
B-0044	1.00	VT	F	A	A	A	A	A	A	A	A	N	A	R	A	R	A	A	A	A	A	A	N	R	N	N	
B-0046	1.00	VT	F	A	A	A	A	A	N	A	A	N	A	A	A	R	N	N	N	N	A	A	N	A	N	N	
B-0048	1.00	PT	T	A	A	A	A																			A	
B-0048	1.00	VT	F	A	A	A	A	A	A	R	A	N	A	A	A	R	A	A	A	A	A	N	N	A	N	N	
B-0049	1.00	PT	T	A	A	A	A																			A	
B-0049	1.00	VT	F	A	A	A	A	A	A	A	A	N	A	A	A	R	A	A	A	A	A	N	N	A	N	R	
B-0050	1.00	MT	T	A	A	A	A																			A	
B-0050	1.00	VT	F	A	A	A	A	A	A	A	A	N	A	R	A	A	A	A	A	A	A	A	A	A	N	N	
B-0052	1.00	MT	T	A	A	A	A																			A	
B-0052	1.00	VT	F	A	A	A	A	A	A	A	A	N	A	R	R	R	A	A	A	A	A	A	N	A	N	N	
B-0053	1.00	MT	F	A	A	A	A																			R	
B-0053	1.00	VT	F	A	A	A	A	A	A	R	R	N	R	R	R	R	A	A	A	A	R	A	N	R	N	N	
B-0054	1.00	RT	T	A	A	A	A	A		A	A	A	A	A													A
B-0054	1.00	VT	T	A	A	A	A	A	N	A	A	N	A	A	A	A	N	N	N	N	A	A	N	A	N	N	

PACKAGE	WELD	WELD TYPE	TEST	DOCK	PIPE DIAMETER	WALL THICKNESS	LINE CLASS	INCOMPLETE PENETRATION	CONVEX	SHRINKAGE	CRACKS	SLAG	TUNGSTEN	POROSITY	UNDERCUT	SURFACE	BURN THROUGH	FILLET	MISSALIGNED	RADIAL	DUPLICATE	SAMPLE	
249-1529	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1529
249-1530	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1530
249-1531	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1531
249-1532	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1532
249-1533	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1533
249-1534	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1534
249-1535	1.00	RT	F	T			A	R	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1535
249-1536	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1536
249-1537	1.00	RT	F	T			R	A	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1537
249-1538	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1538
249-1539	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1539
249-1540	1.00	RT	F	T			A	R	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1540
249-1541	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1541
249-1542	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1542
249-1543	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1543
249-1544	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1544
249-1545	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1545
249-1546	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1546
249-1547	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1547
249-1548	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1548
249-1549	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1549
249-1550	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1550
249-1551	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1551
249-1552	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1552
249-1553	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1553
249-1554	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1554
249-1555	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1555
249-1556	1.00	RT		T															N		Y		253-0023
249-1557	1.00	RT	F	T			N	N	N	N	N	N	N	N	N	N	N	N	N	R	N		249-1557
249-1558	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1558
249-1559	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1559
249-1560	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1560
249-1561	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1561
249-1562	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1562
249-1563	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1563
249-1564	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1564
249-1565	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1565
249-1566	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		249-1566

PACKAGE	WELD	WELDER	TYPE	DOCKET	PIPING IDENTIFICATION	WIDE IDENTIFICATION	FINAL IDENTIFICATION	LOCATION	INCOMPLETE	CONVEX	CONVEXITY	SHRINKAGE	CRACKS	SLAG	LACK OF FUSION	TUNGSTEN	POROSITY	UNDERFILL	SURFACE FINISH	BURN THROUGH	FILLET SIZE	MISALIGNMENT	REPAIRS	DUPLICATE	SAMPLE	RT FILM
258-0496	1.00	RT	T	T				A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-0496
258-0497	1.00	RT	F	T				R	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-0497
258-0498	1.00	RT		T																				Y		258-0499
258-0499	1.00	RT	T	T				A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-0499
258-0500	1.00	RT	T	T				A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-0500
258-0501	1.00	RT	T	T				A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-0501
258-0502	1.00	RT	T	T				A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-0502
258-0503	1.00	RT	T	T				A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-0503
258-0504	1.00	RT	T	T				A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-0504
258-0505	1.00	RT	T	T				A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-0505
258-0506	1.00	RT	T	T				A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-0506
258-0507	1.00	RT		T																				Y		210-0045
258-0508	1.00	RT	T	T				A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-0508
258-0509	1.00	RT	T	T				A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-0509
258-0510	1.00	RT	T	T				A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-0510
258-0511	1.00	RT	T	T				A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-0511
258-0512	1.00	RT	T	T				A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-0512
258-0513	1.00	RT	T	T				A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-0513
258-0514	1.00	RT	T	T				A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-0514
258-0515	1.00	RT		T																				Y		210-0072
258-0516	1.00	RT	T	T				A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	Y		210-0040
258-0517	1.00	RT		T																				Y		210-0044
258-0518	1.00	RT		T																				Y		210-0044
258-0519	1.00	RT		T																				Y		210-0044
258-0520	1.00	RT	T	T				A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-0520
258-0521	1.00	RT	T	T				A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-0521
258-0522	1.00	RT	T	T				A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-0522
258-0523	1.00	RT	T	T				A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-0523
258-0524	1.00	RT	T	T				A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-0524
258-0525	1.00	RT	T	T				A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-0525
258-0526	1.00	RT	T	T				A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-0526
258-0527	1.00	RT		T																				Y		258-0291
258-0528	1.00	RT	T	T				A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-0528
258-0529	1.00	RT	T	T				A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-0529
258-0530	1.00	RT	T	T				A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-0530
258-0531	1.00	RT	F	T				R	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-0531
258-0532	1.00	RT	T	T				A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-0532
258-0533	1.00	RT	T	T				A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-0533

PACKAGE	WELD	WELD TYPE	TESTS	DOCK?	PROVIDED WELDER IDENTIFIED	WELDER IDENTIFIED	LACK OF FUSION	LACK OF PENETRATION	CONVEXITY	CONCAVITY	SHRINKAGE	CRACKS	SLAG	TUNGSTEN	POROSITY	UNDERCUT	SURFACE	BURN THROUGH	FILM	MISSING	RADIOGRAPHS	DUPLICATE	SAME AS	
258-1184	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1184
258-1185	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1185
258-1186	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1186
258-1187	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1187
258-1188	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1188
258-1189	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1189
258-1190	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1190
258-1191	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1191
258-1192	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1192
258-1193	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1193
258-1194	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1194
258-1195	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1195
258-1196	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1196
258-1197	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1197
258-1198	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1198
258-1199	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1199
258-1200	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1200
258-1201	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1201
258-1202	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1202
258-1203	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1203
258-1204	1.00	RT	T	T			A	N	A	N	A	N	A	A	A	A	A	A	A	N	A	N		258-1204
258-1205	1.00	RT	T	T			A	N	A	N	A	N	A	A	A	A	A	A	A	N	A	N		258-1205
258-1206	1.00	RT	F	T			A	R	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1206
258-1207	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1207
258-1208	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1208
258-1209	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1209
258-1210	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1210
258-1211	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1211
258-1212	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1212
258-1213	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1213
258-1214	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1214
258-1215	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1215
258-1216	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1216
258-1217	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1217
258-1218	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1218
258-1219	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1219
258-1220	1.00	RT	F	T			R	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1220
258-1221	1.00	RT	T	T			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N		258-1221

PACKAGE NO	WELD NO	WELD TEST	TEST	DOCK?	PIPING	WELDER	INDIVIDUAL	LINE	LOCKING	PIPE	EVAPORATOR	EXTRACTION	SHRINKAGE	CRACKS	SLAG	TUNGSTEN	POROSITY	UNDERCUT	SURFACE	BURN THRU	FILM	MISSED	RADIATION	DUPLICATE	SAMPLE NO
258-1298	1.00	RT	T	T					A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	258-1298
258-1299	1.00	RT		T																				Y	249-0615
258-1300	1.00	RT	T	T					A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	258-1300
258-1301	1.00	RT	T	T					A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	258-1301
258-1302	1.00	RT	T	T					A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	258-1302
258-1303	1.00	RT	T	T					A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	258-1303
258-1304	1.00	RT	T	T					A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	258-1304
258-1305	1.00	RT	T	T					A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	258-1305
258-1306	1.00	RT		T																				Y	258-1307
258-1307	1.00	RT	T	T					A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	258-1307
258-1308	1.00	RT	T	T					A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	258-1308
258-1309	1.00	RT	T	T					A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	258-1309
258-1310	1.00	RT	T	T					A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	258-1310
258-1311	1.00	RT	T	T					A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	258-1311
258-1312	1.00	RT	T	T					A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	258-1312
258-1313	1.00	RT	F	F	R				A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	258-1313
258-1314	1.00	RT	F	F	R				A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	258-1314
258-1315	1.00	RT	F	F	R				A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	258-1315
258-1316	1.00	RT	F	F	R				A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	258-1316
258-1317	1.00	RT	F	F	R				A	A	A	A	A	A	A	A	A	A	A	A	A	N	R	N	258-1317
258-1318	1.00	RT	F	F	R				A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	258-1318
258-1319	1.00	RT	F	F	R				A	A	A	A	A	A	A	A	A	A	A	A	A	N	R	N	258-1319
258-1320	1.00	RT	F	F	R				A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	258-1320
258-1321	1.00	RT	F	F	R				A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	258-1321
258-1322	1.00	RT	F	F	R				A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	258-1322
258-1323	1.00	RT	F	F	R				A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	258-1323
258-1324	1.00	RT	F	F	R				A	A	A	A	A	A	A	A	A	A	A	A	A	N	R	N	258-1324
258-1325	1.00	RT	F	F	R				A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	258-1325
258-1326	1.00	RT	F	F	R				A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	258-1326
258-1327	1.00	RT	F	F	R				A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	258-1327
258-1328	1.00	RT		T																				Y	258-0641
258-1329	1.00	RT	T	T					A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	258-1329
258-1330	1.00	RT	T	T					A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	258-1330
258-1331	1.00	RT	T	T					A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	258-1331
258-1332	1.00	RT	T	T					A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	258-1332
258-1333	1.00	RT	T	T					A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	258-1333
258-1334	1.00	RT	T	T					A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	258-1334
258-1335	1.00	RT	T	T					A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	258-1335

INS 009A Listing by Weld (MINITAB)
INS 009B Listing by Package (MINITAB)

This program was originally the "MINWD" reports requested by Data Analysis Group.

The report printed a hard copy of an ouput report and/or a floppy copy of the requested group. These were for each group in the Visual Examination test results. These files were for statistical analysis by the Data Analysis Group.

Selection could be for WELDS (MINWD1 - INS 009A) or PACKAGES (MINWD2 - INS 009B).

A selection could also be made to produce files for MINITAB without printing the report.

INS 009A Listing by Weld (MINITAB)

```
Group: 013            Listing by Weld:  INS 009A-R8ge:   1
        Date: 09/30/87     Time: 14:06:33
   P          W   |D|P|W|F|N|W|C|O|U|L|I|P|R|G|R|V|M|T|M|M|F|A|   S  S
   K          E   |O|R|E|I|D|E|R|V|N|O|N|O|I|R|I|A|I|A|A|A|S|C|   U  U
   G          L   |C|O|L|L|E|L|A|E|D|F|P|R|P|O|D|L|N|P|X|X|W|C|   M  M
              D   | |C|D|L|N|D|C|R|E|U|E|O|P|O|G|L|T|E|O|R|E|E|
   N              |D|_|E|E|O|I|K|L|R|S|N|S|L|V|E|E|H|R|F|E|L|S|   D  A
   O          N   |E|D|R|R|_|D|S|A|C|I|E|I|E|E|S|Y|I| |F|I|D|S|   E  T
              O   |V|E|_|_|D|_| |P|U|O|T|T|S|S| |S|C| |S|N|S|I|   V  T
                  | |V|D|D|E|D| | |T|N|R|Y| | | | |K| |E|F|I|B|
                  | | |E|E|V|E| | | | |A| | | | | | | |T|O|Z|L|
                  | | |V|V| |V| | | | | | | | | | | | |R|E|E|
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013-0001    1.00  * . . . .   . . . . N . . . . . . . N . N N   0 12
013-0002    1.00  * . . . .   . . . . N . . . . . . . N . N N   0 12
013-0004    1.00  * . . . .   . . . . N . . . . . . . N . N N   0 12
013-0005    1.00  * . . . .   . . . . N . . . . . . . N . N N   0 12
013-0006    1.00  * . . . .   . . . . N . . . . . . . N . N N   0 12
013-0007    1.00  * . . . .   . . . . N . . . . . . . N . N N   0 12
013-0008    1.00  * . . . .   . . . . N . . . . . . . N . N N   0 12
013-0009    1.00  * . . . .   . . . . N . . . . . . . N . N N   0 12
013-0010    1.00  R . . . R   . . . . N . . . . . . R . N . N N   1 12
013-0011    1.00  * . . . X   . . . . N . . . . . . . N . N N   0 12
013-0013    1.00  * . . . .   . . . . N . . . . . . . N . N N   0 12
013-0014    1.00  * . . . .   . . . . N . . . . . . . N . N N   0 12
013-0015    1.00  * . . . .   . . . . N . . . . . . . N . N N   0 12
013-0016    1.00  * . . . .   . . . . N . . . . . . . N . N N   0 12
013-0017    1.00  * . . . .   . . . . N . . . . . . . N . N N   0 12
013-0018    1.00  * . . . .   . . . . N . . . . . . . N . N N   0 12
013-0019    1.00  * . . . .   . . . . N . . . . . . . N . N N   0 12
013-0020    1.00  * . . . .   . . . . N . . . . . . R . N . N N   1 12
013-0021    1.00  * . . . .   . . . . N . . . . . . . N . N N   0 12
013-0022    1.00  * . . . .   . . . . N . . . . . . . N . N     0 12
013-0023    1.00  * . . . .   . . . . N . . . . . . . N . N N   0 12
013-0024    1.00  * . . . .   . . . . N . . . . . . . N . N N   0 12
013-0025    1.00  * . . . .   . . . . N . . . . . . . N . N N   0 12
013-0026    1.00  * . . . .   . . . . N . . . . . . . N . N N   0 12
013-0027    1.00  * . . . .   . . . . N . . . . . . . N . N N   0 12
013-0028    1.00  * . . . .   . . . . N . . . . . . . N . N N   0 12
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INS 009B Listing by Package (MINITAB)

Group: 013 Listing by Package: INS 009B-R0 Page: 1

Date: 09/30/87 Time: 14:07:31

PACKAGE NO	TOTDES	DOCWELD	PRODEV	WELDER_DEV	FILLER_DEV	NDEVW	WELD_DEV	CRACKS	OVALS	UNDUT	LOFUSION	INPOTRA	PORITY	RPLES	GROVES	RIDGES	VALLEYS	MINICK	TAPER	MAXFSET	MAXREF	FSWELDZE	ACCESSIBLE	SUMDEV	SUMATT
====	===	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	==	===
0001	1	*	0	0	0	0	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
0002	1	*	0	0	0	0	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
0004	1	*	0	0	0	0	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
0005	1	*	0	0	0	0	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
0006	1	*	0	0	0	0	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
0007	1	*	0	0	0	0	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
0008	1	*	0	0	0	0	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
0009	1	*	0	0	0	0	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
0010	1	*	0	0	0	*	*	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	12
0011	1	1	0	0	0	1	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
0013	1	*	0	0	0	0	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
0014	1	*	0	0	0	0	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
0015	1	*	0	0	0	0	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
0016	1	*	0	0	0	0	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
0017	1	*	0	0	0	0	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
0018	1	*	0	0	0	0	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
0019	1	*	0	0	0	0	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
0020	1	*	0	0	0	0	*	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	12
0021	1	*	0	0	0	0	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
0022	1	*	0	0	0	0	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
0023	1	*	0	0	0	0	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
0024	1	*	0	0	0	0	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
0025	1	*	0	0	0	0	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
0026	1	*	0	0	0	0	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
0027	1	*	0	0	0	0	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
0028	1	*	0	0	0	0	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
====	===	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	==	===
26	26	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	312

INS 010 Group/Package Detail Listing (All Tests)

This report was a listing of all the information in the inspection data base per package or per group. The sequence of the report was the same as the structure for WDTRACK.DBF. If the user elected to obtain a listing for one group, the heading was altered according to the category of that particular group, whether it was ASME, ANSI, or AWS or Radiographic Populations. The following options produced selected groupings:

"A" — by Packages
"B" — by Group
"X" — Exit Program.

INS 010 Group/Package Detail Listing (All Tests)

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                                                                              Page:     1
Date: 09/10/88                 Time: 19:06:25
INS010-R0            GROUP/PACKAGE DETAIL LISTING
         GROUP   266  --   Group 254 Expansion
                                                 = = = = = = = = = = = = = = = = = = = = = = = = =
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!   P      ! R !  W    ! O  !W! W !N!S!I! W!T!U!C!W!I!O!C!P!U!P!L!A!S!M!M!A!W!C!C!S!T!S!B!F!N!R!
!   A      ! E !  E    ! R  !E! O !D!V!S! D!V!S!R!E!N!V!R!R!N!O!E!R!L!I!I!C!E!O!O!H!U!U!U!I!D!A!
!   C      ! V !  L    ! G  !L! S !E!S!O! R!A!F!A!L!C!E!A!O!D!R!N!C!A!S!S!C!L!N!N!R!N!R!R!L!E!D!
!   K      ! I !  D    !    !D!   !V!_!K! _!_!S!C!D! !R!T!F!E!O!G!S!G!S! !E!D!C!V!I!G!F!N!M!_!_!
!   A      ! S !       ! G  ! ! M !T!W! ! R!P! !K! !F!L!E!I!R!S!T!T! ! !C!S! !A!E!N!S!A!T!A!I!T!
!   G      ! I !  N    ! R  !T! I !_!E! ! E!R! !S!S!U!A!R!L!C!I!H!R!&!W!O!S!T!V!X!K!T!C!H!R!N!E!
!   E      ! O !  O    ! O  !E! S !D!P! ! V!I! ! !I!S!P!S!E!U!T!&!I!S!E!N!I!Y!I!I!A!E!E!R!T!D!C!
!          ! N !       ! U  !S! S !E! ! ! I!O! ! !Z!I! ! !S!T!Y!L!K!P!L!F!B!P!T!T!G!N! !U! !I!H!
!   N      !   !       ! P  !T!   !V! ! ! S!R! ! !E!D! ! ! ! ! !O!E!A!D!I!L!E!Y!Y!E!I! ! ! !C! !
!   O      !   !       !    ! !   ! ! ! ! ! ! ! ! !N! ! ! ! ! !C!S!T! !G!E! ! ! ! !N! ! ! !A! !
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266-0002   900   1.00 266  G .F. A N F  O F F N R N N N A N N A N N N N N N
266-0002   900   2.00 266  G .F. A N F  O F F N R N N N A N N A N N N N N N
266-0002   900   3.00 266  G .F. A N F  O F F N R N N N R N N A N N N N N N
266-0002   900   4.00 266  G .F. A N F  O F F N R N N N R N N A N N N N N N

266-0004   900   1.00 266  G .F. A N F  O F F N R N N N A N N A N N N N N N
266-0004   900   2.00 266  G .F. A N F  O F F N R N N N A N N A N N N N N N
266-0004   900   3.00 266  G .F. A N F  O F F N R N N N A N N A N N N N N N
266-0004   900   4.00 266  G .F. A N F  O F F N R N N N A N N A N N N N N R

266-0005   900   1.00 266  G .F. A N T  O N N N A N N N A N N A N N N N N N
266-0005   900   2.00 266  G .F. A N T  O N N N A N N N A N N A N N N N N N
266-0005   900   3.00 266  G .F. A N T  O N N N A N N N A N N A N N N N N N
266-0005   900   4.00 266  G .F. A N T  O N N N A N N N A N N A N N N N N N
266-0005   900   5.00 266  G .F. A N T  O N N N A N N N A N N A N N N N N N
266-0005   900   6.00 266  G .F. A N T  O N N N A N N N A N N A N N N N N N

266-0006   901   1.00 266  G .F. A N T  O N N N A N N N A N N A N N N N N N
266-0006   901   2.00 266  G .F. A N T  O N N N A N N N A N N A N N N N N N
266-0006   901   3.00 266  G .F. A N T  O N N N A N N N A N N A N N N N N N

266-0007   900   1.00 266  G .F. A N F  O F F N R N N N A N N A N N N N N N
266-0007   900   2.00 266  G .F. A N F  O F F N R N N N A N N A N N N N N N
266-0007   900   3.00 266  G .F. A N F  O F F N R N N N A N N A N N N N N N
266-0007   900   4.00 266  G .F. A N F  O F F N R N N N A N N A N N N N N N
266-0007   900   5.00 266  G .F. A N F  O F F N R N N N A N N A N N N N N N
266-0007   900   6.00 266  G .F. A N F  O F F N R N N N A N N A N N N N N N
266-0007   900   7.00 266  G .F. A N F  O F F N R N N N A N N A N N N N N N
266-0007   900   8.00 266  G .F. A N F  O F F N R N N N A N N A N N N N N N

266-0008   900   1.00 266  G .F. A N F  O F F N R N N N A N N A N N N N N N
266-0008   900   2.00 266  G .F. A N F  O F F N R N N N A N N A N N N N N N
266-0008   900   3.00 266  G .F. A N F  O F F N R N N N A N N A N N N N N R
266-0008   900   4.00 266  G .F. A N F  O F F N R N N N A N N A N N N N N N

266-0009   900   1.00 266  G .F. A N T  O N N N A N N N A N N A N N N N N N
266-0009   900   2.00 266  G .F. A N T  O N N N A N N N A N N A N N N N N N
266-0009   900   3.00 266  G .F. A N F  O F F N A N N N A N N A N N N N N R
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INS010-R0   GROUP/PACKAGE DETAIL LISTING

GROUP   B   --   ASME LARGE BORE PIPE

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¦  P      ¦ R ¦  W   ¦ O  ¦W¦ W ¦P¦W¦F¦N¦W¦S¦I¦ W¦T¦U¦C¦O¦U¦L¦I¦I¦S¦P¦S¦A¦R¦G¦R¦V¦M¦T¦M¦M¦F¦A¦C¦C¦S¦T¦S¦B¦F¦M¦N¦R¦
¦  A      ¦ E ¦  E   ¦ R  ¦E¦ O ¦R¦E¦I¦D¦E¦V¦S¦ D¦V¦S¦R¦V¦N¦A¦N¦L¦O¦P¦R¦I¦R¦I¦A¦I¦A¦A¦A¦S¦C¦O¦O¦H¦U¦U¦U¦I¦I¦D¦A¦
¦  C      ¦ V ¦  L   ¦ G  ¦L¦ S ¦O¦L¦L¦E¦L¦S¦O¦ R¦A¦F¦A¦E¦D¦C¦C¦A¦R¦A¦C¦P¦O¦D¦L¦N¦P¦X¦X¦W¦C¦N¦N¦R¦N¦R¦R¦L¦S¦E¦D¦
¦  K      ¦ I ¦  D   ¦    ¦D¦ _ ¦C¦D¦L¦N¦D¦_¦K¦ _¦_¦S¦C¦R¦E¦K¦P¦G¦O¦T¦S¦P¦D¦G¦L¦I¦E¦ ¦R¦E¦E¦C¦V¦I¦G¦F¦N¦M¦S¦_¦_¦
¦  A      ¦ S ¦      ¦ G  ¦ ¦ M ¦_¦E¦E¦O¦I¦W¦ ¦ R¦P¦ ¦K¦L¦R¦ ¦E¦ ¦S¦T¦T¦L¦V¦E¦E¦ ¦R¦O¦E¦L¦S¦A¦E¦N¦S¦A¦T¦A¦ ¦I¦T¦
¦  G      ¦ I ¦  N   ¦ R  ¦T¦ I ¦D¦R¦R¦_¦D¦E¦ ¦ E¦R¦ ¦S¦A¦C¦F¦N¦ ¦I¦E¦R¦E¦E¦S¦Y¦T¦ ¦F¦I¦D¦S¦V¦X¦K¦T¦C¦H¦R¦F¦N¦E¦
¦  E      ¦ O ¦  O   ¦ O  ¦E¦ S ¦E¦_¦_¦D¦_¦P¦ ¦ V¦I¦ ¦ ¦P¦U¦U¦E¦ ¦T¦R¦I¦S¦S¦ ¦S¦H¦ ¦F¦N¦S¦I¦I¦I¦A¦E¦E¦R¦T¦I¦D¦C¦
¦         ¦ N ¦      ¦ U  ¦S¦ S ¦V¦D¦D¦E¦D¦ ¦ ¦ I¦O¦ ¦ ¦ ¦T¦S¦T¦ ¦Y¦ ¦K¦ ¦ ¦ ¦ ¦I¦ ¦S¦F¦I¦B¦T¦T¦G¦N¦ ¦U¦ ¦L¦I¦H¦
¦  N      ¦   ¦      ¦ P  ¦T¦   ¦ ¦E¦E¦V¦E¦ ¦ ¦ S¦R¦ ¦ ¦ ¦ ¦I¦R¦ ¦ ¦ ¦E¦ ¦ ¦ ¦ ¦C¦ ¦E¦O¦Z¦L¦Y¦Y¦E¦I¦ ¦ ¦ ¦M¦C¦ ¦
¦  O      ¦   ¦      ¦    ¦ ¦   ¦ ¦V¦V¦ ¦V¦ ¦ ¦  ¦ ¦ ¦ ¦ ¦ ¦O¦A¦ ¦ ¦ ¦S¦ ¦ ¦ ¦ ¦K¦ ¦T¦R¦E¦E¦ ¦ ¦ ¦N¦ ¦ ¦ ¦ ¦A¦ ¦
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 B-0001   903   1.00 B   P .F. A A A A   N T  0                                                           A
 B-0001   903   1.00 B   V .F. A A A A   N T  0 N N A A A A N A A A A A A A A A A A N A N N

 B-0003   903   1.00 B   P .F. A A A A   N T  0                                                           A
 B-0003   903   1.00 B   V .F. A A A A   N T  0 N N A A A A N A A A A A A A A A A A N A N N

 B-0004   903   1.00 B   V .F. A A A A   N F  0 F F A N A A N A A R R N N N N A A N A N N

 B-0005   902   1.00 B   V .F. A A A A   N F  0 F F A N A A N N A A R N N N N A A N A N N

 B-0006   902   1.00 B   V .F. A A A A   N T  0 N N A N A A N A A A A N N N N A A N A N N

 B-0008   905   1.00 B   R .F. A A A A     T  2     A   A A A A A                       A A A A A A A N   A
 B-0008   905   1.00 B   V .F. A A A A   N T  2 N N A N A A N A A A A N N N N A A N A N N

 B-0010   905   1.00 B   R .F. A A A A     T  0     A   A A A A A                       A A A A A A A N   A
 B-0010   905   1.00 B   V .F. A A A A   N F  3 F F A A A A N A A A R A A A A A R N R N N

 B-0012   902   1.00 B   P .F. A A A A   N T  0                                                           A
 B-0012   902   1.00 B   V .F. A A A A   N T  0 N N A A A A N A A A A A A A A A A N N N N

 B-0013   902   1.00 B   P .F. A A A A   N T  0                                                           A
 B-0013   902   1.00 B   V .F. A A A A   N T  0 N N A A A A N A A A A A A A A A A A N A N N

 B-0014   903   1.00 B   M .F. A A A A   N F  1                                                           L
 B-0014   903   1.00 B   V .F. A A A A   N F  1 F F A R A R N A R R R A A A A A A A N A N N

 B-0015   905   1.00 B   R .F. A A A A     F  0     A   A R A A A                       A R A A A A A N   A
 B-0015   905   1.00 B   V .F. A A R A   N T  0 N N A N A A N A A A A N N N N A A A A N N   R

 B-0017   905   1.00 B   P .F. A A A A   N T  2                                                           A
 B-0017   905   1.00 B   R .F. A A A A     F  2     A   A A A A A                       A A A A A A A N   R
 B-0017   905   1.00 B   V .F. A A A A   N T  2 N N A A A A N A A A A A A A A A A A N A N N

 B-0020   902   1.00 B   V .F. A A A A   N F  0 F F A N A A N A A A R N N N N A A N A N N

 B-0021   904   1.00 B   V .F. A A A A   N T  3 N N A N A A N A A A A N N N N A A N A N N
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Date: 09/14/88   Time: 00:43:16   Page: 2

INS010-R0   GROUP/PACKAGE DETAIL LISTING

GROUP   B   --   ASME LARGE BORE PIPE

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|   P      | R |   W    | O  |W| W |P|W|F|N|W|S|I| W|T|U|C|O|U|L|I|S|P|S|A|R|G|R|V|M|T|M|M|F|A|C|C|S|T|S|B|F|M|N|R|
|   A      | E |   E    | R  |E| O |R|E|I|D|E|V|S| D|V|S|R|V|N|A|N|L|O|P|R|I|R|I|A|I|A|A|A|S|C|O|O|H|U|U|U|I|I|D|A|
|   C      | V |   L    | G  |L| S |O|L|L|E|L|S|O| R|A|F|A|E|D|C|C|A|R|A|C|P|O|D|L|N|P|X|X|W|C|N|N|R|N|R|R|L|S|E|D|
|   K      | I |   D    |    |D| _ |C|D|L|N|D|_|K| _|_|S|C|R|E|K|P|G|O|T|S|P|O|G|L|I|E| |R|E|E|C|V|I|G|F|N|M|S|_|_|
|   A      | S |        | G  | | M |_|E|E|O|I|W| | R|P| |K|L|R| |E| |S|T|T|L|V|E|E| |R|O|E|L|S|A|E|N|S|A|T|A| |I|T|
|   G      | I |   N    | R  |T| I |D|R|R|_|D|E| | E|R| |S|A|C|F|N| |I|E|R|E|E|S|Y|T| |F|I|D|S|V|X|K|T|C|H|R|F|N|E|
|   E      | O |   O    | O  |E| S |E|_|_|D|_|P| | V|I| | |P|U|U|E| |T|R|I|S|S| |S|H| |F|N|S|I|I|I|A|E|E|R|T|I|D|C|
|          | N |        | U  |S| S |V|D|D|E|D| | | I|O| | | |T|S|T| |Y| |K| | | | |I| |S|F|I|B|T|T|G|N| |U| |L|I|H|
|   N      |   |        | P  |T|   | |E|E|V|E| | | S|R| | | | |I|R| | |E| | | | |C| |E|O|Z|L|Y|Y|E|I| | | |M|C| |
|   O      |   |        |    | | |   | |V|V| |V| | |  | | | | | |O|A| | |S| | | | |K| |T|R|E|E| | | |N| | | |A| |
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  B-0022  905   1.00 B   P .F. A A A A  N T 1                                                  A
  B-0022  905   1.00 B   R .F. A A A A    F 1   A  A A A A A                 A A A A A A A N  R
  B-0022  905   1.00 B   V .F. A A A A  N T 1 N N A A A A N A A A A A A A A A A N A N N

  B-0023  906   1.00 B   R .F. A A A A    T 0   A  A A A A A                 A A A A A A A N  A
  B-0023  906   1.00 B   V .F. A A A A  N T 0 N N A N A A N A A A A N N N N A A N A N N

  B-0024  905   1.00 B   V .F. A R A A  N F 4 F F A N A A N A A A R N N N N A A N A N N

  B-0025  903   1.00 B   M .F. A A A A  N T 0                                                  A
  B-0025  903   1.00 B   V .F. A A A A  N T 0 N N A A A A N A A A A A A A A A A N A N N

  B-0026  905   1.00 B   R .F. A A A A    T 0   A  A A A A A                 A A A A A A A N  A
  B-0026  905   1.00 B   V .F. A A A A  N T 1 N N A A A A N A A A A A A A A A A N A N N

  B-0027  902   1.00 B   M .F. A A A A  N T 0                                                  A
  B-0027  902   1.00 B   V .F. A A A A  N F 0 F F A A A A N A A A R A A A A A A N A N N

  B-0029  905   1.00 B   R .F. A A A A    F 1   N  N N N N N                 R R N N N N N N  A
  B-0029  905   1.00 B   V .F. A A A A  N T 1 N N A A A A N A A A A A A A A A A N A N N  R

  B-0030  903   1.00 B   P .F. A A A A  N T 0                                                  A
  B-0030  903   1.00 B   V .F. A A A A  N F 0 F F A A A A N A A A A A A A A A N N A N R

  B-0031  903   1.00 B   V .F. A A A A  N T 0 N N A A A A N A A A A N N N N A A N A N N

  B-0032  904   1.00 B   M .F. A A A A  N F 0                                                  L
  B-0032  904   1.00 B   V .F. A A A A  N T 0 N N A A A A N A A A A A A A A A A N A N N

  B-0033  903   1.00 B   P .F. A A A A  N T 0                                                  A
  B-0033  903   1.00 B   V .F. A A A A  N T 0 N N A A A A N A A A A A A A A A A N A N N

  B-0034  904   1.00 B   V .F. A A A A  N F 1 F F A N A A N A A A R N N N N A A N A N N

  B-0036  902   1.00 B   P .F. A A A A  N T 1                                                  A
  B-0036  902   1.00 B   V .F. A A A A  N F 1 F F A A A A R A A A A A A A A A A N N R N N

  B-0037  905   1.00 B   R .F. A A A A    F 3   A  A R A A A                 A A A A A A A N  A
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INS010-R0 GROUP/PACKAGE DETAIL LISTING

GROUP B -- ASME LARGE BORE PIPE

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========== === ====== ==== = === = = = = = = = == = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = =
¦   P      ¦ R ¦  W   ¦ O  ¦W¦ W ¦P¦W¦F¦N¦W¦S¦I¦ W¦T¦U¦C¦O¦U¦L¦I¦S¦P¦S¦A¦R¦G¦R¦V¦M¦T¦M¦M¦F¦A¦C¦C¦S¦T¦S¦B¦F¦M¦N¦R¦
¦   A      ¦ E ¦  E   ¦ R  ¦E¦ O ¦R¦E¦I¦D¦E¦V¦S¦ D¦V¦S¦R¦V¦N¦A¦N¦L¦O¦P¦R¦I¦R¦I¦A¦I¦A¦A¦A¦S¦C¦O¦O¦H¦U¦U¦U¦I¦I¦D¦A¦
¦   C      ¦ V ¦  L   ¦ G  ¦L¦ S ¦O¦L¦L¦E¦L¦S¦O¦ R¦A¦F¦A¦E¦D¦C¦C¦A¦R¦A¦C¦P¦O¦D¦L¦N¦P¦X¦X¦W¦C¦N¦N¦R¦N¦R¦R¦L¦S¦E¦D¦
¦   K      ¦ I ¦  D   ¦    ¦D¦ _ ¦C¦D¦L¦N¦D¦_¦K¦ _¦_¦S¦C¦R¦E¦K¦P¦G¦O¦T¦S¦P¦O¦G¦L¦I¦E¦ ¦R¦E¦E¦C¦V¦I¦G¦F¦N¦M¦S¦_¦_¦
¦   A      ¦ S ¦      ¦ G  ¦ ¦ M ¦_¦E¦E¦O¦I¦W¦ ¦ R¦P¦ ¦K¦L¦R¦ ¦E¦ ¦S¦T¦T¦L¦V¦E¦E¦ ¦R¦O¦E¦L¦S¦A¦E¦N¦S¦A¦T¦A¦ ¦I¦T¦
¦   G      ¦ I ¦  N   ¦ R  ¦T¦ I ¦D¦R¦R¦_¦D¦E¦ ¦ E¦R¦ ¦S¦A¦C¦F¦N¦ ¦I¦E¦R¦E¦E¦S¦Y¦T¦ ¦F¦I¦D¦S¦V¦X¦K¦T¦C¦H¦R¦F¦N¦E¦
¦   E      ¦ O ¦  O   ¦ O  ¦E¦ S ¦E¦_¦_¦D¦_¦P¦ ¦ V¦I¦ ¦ ¦P¦U¦U¦E¦ ¦T¦R¦I¦S¦S¦ ¦S¦H¦ ¦F¦N¦S¦I¦I¦I¦A¦E¦E¦R¦T¦I¦D¦C¦
¦          ¦ N ¦      ¦ U  ¦S¦ S ¦V¦D¦D¦E¦D¦ ¦ ¦ I¦O¦ ¦ ¦ ¦T¦S¦T¦ ¦Y¦ ¦K¦ ¦ ¦ ¦ ¦I¦ ¦S¦F¦I¦B¦T¦T¦G¦N¦ ¦U¦ ¦L¦I¦H¦
¦   N      ¦   ¦      ¦ P  ¦T¦   ¦ ¦E¦E¦V¦E¦ ¦ ¦ S¦R¦ ¦ ¦ ¦ ¦I¦R¦ ¦ ¦E¦ ¦ ¦ ¦ ¦C¦ ¦E¦O¦Z¦L¦Y¦Y¦E¦I¦ ¦ ¦M¦C¦ ¦
¦   O      ¦   ¦      ¦    ¦ ¦   ¦ ¦V¦V¦ ¦V¦ ¦ ¦  ¦ ¦ ¦ ¦ ¦ ¦O¦A¦ ¦ ¦S¦ ¦ ¦ ¦ ¦K¦ ¦T¦R¦E¦E¦ ¦ ¦N¦ ¦ ¦ ¦A¦ ¦
========== === ====== ==== = === = = = = = = = == = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = =

B-0037  905  1.00 B   V .F. A A A A   N T  3 N N A N A A N A A A A N N N N A A N A N N R

B-0038  905  1.00 B   R .F. A A A A     T  0     A   A A A A A                           A A A A A A A N   A
B-0038  905  1.00 B   V .F. A A A A   N T  4 N N A A A A A A A A A A A A A A A A A A A N

B-0039  903  1.00 B   M .F. A A A A   N T  0                                                            A
B-0039  903  1.00 B   V .F. A A A A   N F  0 F F A A R A N A A A A A A A A A A N N N R N

B-0041  902  1.00 B   V .F. A A A A   N T  0 N N A N A A N A A A A N N N N A N N A N N

B-0042  905  1.00 B   R .F. A A A A     T  1     A   A A A A A                           A A A A A A A N   A
B-0042  905  1.00 B   V .F. A A A A   N T  1 N N A A A A N A A A A A A A A A A A A A N N

B-0043  903  1.00 B   V .F. A A A A   N F  0 F F A N A A N A A A R N N N N A A N A N N

B-0044  904  1.00 B   P .F. A A A A   N T  0                                                            A
B-0044  904  1.00 B   V .F. A A A A   N F  0 F F A A A A N A R A R A A A A A A A N R N N

B-0046  903  1.00 B   V .F. A A A A   N F  0 F F A N A A N A A A R N N N N A A N A N N

B-0048  902  1.00 B   P .F. A A A A   N T  0                                                            A
B-0048  902  1.00 B   V .F. A A A A   N F  0 F F A A R A N A A A R A A A A A A N N A N N

B-0049  903  1.00 B   P .F. A A A A   N T  1                                                            A
B-0049  903  1.00 B   V .F. A A A A   N F  1 F F A A A A N A A A R A A A A A A N N A N R

B-0050  903  1.00 B   M .F. A A A A   N T  1                                                            A
B-0050  903  1.00 B   V .F. A A A A   N F  1 F F A A A A N A R A A A A A A A A A A A N N

B-0052  903  1.00 B   M .F. A A A A   N T  0                                                            A
B-0052  903  1.00 B   V .F. A A A A   N F  0 F F A A A A N A R R R A A A A A A A N A N N

B-0053  906  1.00 B   M .F. A A A A   N F  4                                                            R
B-0053  906  1.00 B   V .F. A A A A   N F  4 F F A A R R N R R R R A A A A R A N R N N

B-0054  905  1.00 B   R .F. A A A A     T  2     A   A A A A A                           A A A A A A A N   A
B-0054  905  1.00 B   V .F. A A A A   N T  2 N N A N A A N A A A A N N N N A A N A N N
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INS 011 List of Packages with Missing Welds

Report on Missing Welds or Missing Due to Configuration.

This report would print out the Package Number and the Weld Number that were missing or missing due to configuration on AWS D1.1 welds. Group is the major sequence of the report.

The report also indicated whether it was a missing weld or if it was missing due to configuration. A total of welds selected was printed at the end of the report.

INS 011 List of Packages with Missing Welds

09/30/87 PAGE 1
14:14:41
INS011-R0

LIST OF MISSING WELDS

GROUP D :

D-0021	7.00	>	Missing Weld
D-0021	8.00	>	Missing Weld
D-0021	11.00	>	Missing Weld
D-0021	12.00	>	Missing Weld
D-0023	22.00	>	Missing due to Configuration
D-0023	22.10	>	Missing due to Configuration
D-0023	23.00	>	Missing due to Configuration
D-0023	23.10	>	Missing due to Configuration
D-0023	24.00	>	Missing due to Configuration
D-0023	24.10	>	Missing due to Configuration
D-0096	100.00	>	Missing due to Configuration
D-0096	101.00	>	Missing due to Configuration
D-0096	102.00	>	Missing due to Configuration
D-0096	103.00	>	Missing due to Configuration
D-0096	112.00	>	Missing due to Configuration
D-0096	113.00	>	Missing due to Configuration
D-0096	114.00	>	Missing due to Configuration
D-0096	115.00	>	Missing due to Configuration
D-1001	212.00	>	Missing Weld
D-1001	213.00	>	Missing Weld
D-1004	209.00	>	Missing Weld
D-1004	210.00	>	Missing Weld

GROUP E :

E-0020	14.00	>	Missing Weld
E-0020	16.00	>	Missing Weld
E-0020	17.00	>	Missing Weld
E-0020	24.00	>	Missing Weld
E-0020	25.00	>	Missing Weld
E-0020	26.00	>	Missing Weld
E-0020	27.00	>	Missing Weld
E-0020	29.00	>	Missing Weld
E-0020	30.00	>	Missing Weld
E-0207	1.00	>	Missing Weld
E-0207	3.00	>	Missing Weld
E-0207	29.00	>	Missing Weld
E-0207	31.00	>	Missing Weld
E-0207	45.00	>	Missing Weld

INS 012 List of Packages with Tack Welds

Report to print out Tack welds

This report would print out the package number and weld number of all the tack welds.

Tack welds were welds which had a code of "N" in the WELDSIZE, WLENGTH, MIS_WELD, or MIS_CONFIG data elements and data elements CRACKS or UNDERCUT and not coded "N". ("N" = Not Applicable)

The report indicated whether the weld was rejected due to cracks or undercut.

INS 012 List of Packages with Tack Welds

09/30/87
14:19:21
INS012-R0

LIST OF TACK WELDS

GROUP D

D-0069	1.00	CRACKS -> A	UNDERCUT -> A
D-0072	2.00	CRACKS -> A	UNDERCUT -> A
D-0072	4.00	CRACKS -> A	UNDERCUT -> A
D-0075	1.00	CRACKS -> A	UNDERCUT -> A
D-0075	2.00	CRACKS -> A	UNDERCUT -> A
D-0075	3.00	CRACKS -> A	UNDERCUT -> A
D-0075	4.00	CRACKS -> A	UNDERCUT -> A
D-0132	1.00	CRACKS -> A	UNDERCUT -> A
D-0133	1.00	CRACKS -> A	UNDERCUT -> A
D-0133	2.00	CRACKS -> A	UNDERCUT -> A
D-0133	3.00	CRACKS -> A	UNDERCUT -> A
D-0133	4.00	CRACKS -> A	UNDERCUT -> A

GROUP H

H-0036	3.00	CRACKS -> A	UNDERCUT -> A
H-0036	5.00	CRACKS -> A	UNDERCUT -> A
H-0036	6.00	CRACKS -> A	UNDERCUT -> A

GROUP 227

227-0041	1.00	CRACKS -> A	UNDERCUT -> A

GROUP 252

252-0051	73.00	CRACKS -> A	UNDERCUT -> R

Total No. of Tack Welds: 17

INS 013 List of Packages with Cracked Welds

Report to print out package and weld number of all cracked welds.

INS 013 List of Packages with Cracked Welds

09/30/87
14:21:50
INS013-R0

LIST OF PACKAGES WITH CRACK WELDS

GROUP A:

A-0065	1.00

GROUP E:

E-0052	163.00	E-0052	302.00
E-0068	1.00	E-0068	5.00
E-0068	6.00	E-0085	6.00
E-0085	7.00	E-0085	8.00
E-0432	1.00	E-0432	2.00
E-0432	3.00	E-0622	5.00
E-0858	1.00		

GROUP G:

G-0064	3.00

GROUP H:

H-0031	1.10

GROUP 222:

222-0052	1.00	222-0073	1.00
222-0073	2.00	222-0073	3.00

GROUP 225:

225-0123	2.00

GROUP 229:

229-0027	1.00	229-0076	46.00

GROUP 262:

262-0124	1.00

INS 014 List of Packages with TVA SVS

Report to print package numbers that had Support Variance Sheet (SVS) issued by the TVA.

INS 014 List of Packages with TVA SVS

09/30/87
14:24:11
INS014-R0

LIST OF PACKAGES WITH 1986 SVS USED

GROUP G :

G-0020 G-0043 G-0051

GROUP H :

H-0051

GROUP J :

J-0066

GROUP K :

K-0010 K-0031 K-0056

GROUP L :

L-0087

GROUP 202 :

202-0049 202-0061

GROUP 219 :

219-0003

GROUP 254 :

254-0039 254-0542 254-0664
254-0782

Total No. of Packages with 1986 SVS used: 16

INS 015 List of AWS Welds by Selected Group

This report was a special request from Component Selection group for AWS welds on selected Groups only.

The report listed the inspection results of the *AWS* groups with the following eight attributes: CRACKS, UNDERCUT, INCOMPLETE FUSION, SLAG, POROSITY, ARC STRIKES, WELD SIZE and UNDERFILLED CRATERS. For each package, the number of welds was summed. For each of the above attributes in a package, the number of rejects and the number of times checked are totaled.

The screen prompted the requester for the group number (up to six groups per request). At the end of the report, the numbers were summed for each selected group.

INS 015 List of AWS Welds by Selected Group

Group: 266 INS 015-R0 LIST OF AWS WELDS BY SELECTED GROUP Page: 1
Date: 10/01/87 Time: 13:34:30

PACKAGE NO	TOTAL WELDS	CRACK		UNDERCUT		INFUSION		SLAG/SPATS		POROSITY		ARC STRIKE		WELD DEFAULT		CRACK DEFAULT		SUM DEVIATION		SUM HAT
0002	4	0	0	0	0	0	0	0	0	0	0	0	0	4	4	0	0	4	4	
0004	4	0	0	0	0	0	0	0	0	0	0	0	0	4	4	0	0	4	4	
0005	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	6	
0006	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	
0007	8	0	0	0	0	0	0	0	0	0	0	0	0	8	8	0	0	8	8	
0008	4	0	0	0	0	0	0	0	0	0	0	0	0	4	4	0	0	4	4	
0009	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4	
0010	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0011	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	
0012	8	0	0	0	0	0	0	0	0	0	0	0	0	1	8	0	0	1	8	
0013	8	0	0	0	0	0	0	0	0	0	0	0	0	8	8	0	0	8	8	
0014	4	0	0	0	0	0	0	0	0	0	0	0	0	3	4	0	0	3	4	
0016	4	0	0	0	0	0	0	0	0	0	0	0	0	2	4	0	0	2	4	
0018	8	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4	
0019	8	0	0	0	0	0	0	0	0	0	0	0	0	8	8	0	0	8	8	
0020	8	0	0	0	0	0	0	0	0	0	0	0	0	8	8	0	0	8	8	
0021	8	0	0	0	0	0	0	0	0	0	0	0	0	8	8	0	0	8	8	
0022	8	0	0	0	0	0	0	0	0	0	0	0	0	2	8	0	0	2	8	
0023	6	0	0	0	0	0	0	0	0	0	0	0	0	6	6	0	0	6	6	
0024	8	0	0	0	0	0	0	0	0	0	0	0	0	5	8	0	0	5	8	
0025	2	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	2	2	
0026	6	0	0	0	0	0	0	0	0	0	0	0	0	2	6	0	0	2	6	
0027	7	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	
0028	4	0	0	0	0	0	0	0	0	0	0	0	0	4	4	0	0	4	4	
0029	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	8	
0030	4	0	0	0	0	0	0	0	0	0	0	0	0	3	4	0	0	3	4	
0031	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4	
0032	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4	
0034	8	0	0	0	0	0	0	0	0	0	0	0	0	8	8	0	0	8	8	
0035	8	0	0	0	0	0	0	0	0	0	0	0	0	8	8	0	0	8	8	
30	171	0	0	0	0	0	0	0	0	0	0	0	0	98	161	0	0	98	161	

INS 016 List of Packages That Are Open

List of packages that were open.

This report listed the inspection packages that were open. The package was determined to be open if the REVISION number was less than "900".

At the end of the report, a total of open packages was printed.

INS 016 List of Packages That Are Open

10/01/87
14:05:33
INS 016-R0

LIST OF PACKAGES THAT ARE STILL OPEN

GROUP 003 :

003-0001 003-0002

GROUP 012 :

012-0001 012-0002

GROUP 013 :

013-0004 013-0008

GROUP 014 :

014-0001 014-0002 014-0003
014-0004

GROUP 018 :

018-0001

GROUP 021 :

021-0001

GROUP 022 :

022-0001

GROUP 202 :

202-0002 202-0047

GROUP 203 :

203-0001

INS 017 WEP Radiography Review Results

WEP Radiography Review Results.

This one page report listed all the Radiography Review results per attribute. The first column was the attributes in the WEP Form 311. The second column listed the number of deviations for that attribute. The third column listed the number of times each attribute was inspected. The last column was the computed deviation rate.

At the end of the report, the overall percent attribute deviation rate was computed.

INS 017 WEP Radiography Review Results

09/30/87
14:34:05
INS017-R0

WEP RADIOGRAPHY REVIEW RESULTS

ATTRIBUTE	# REJECT	# TIMES INSP.	DEVIATION RATE
Lack Of Fusion	140	3081	4.54 %
Incomplete Pen	27	3079	0.88 %
Concavity	9	3082	0.29 %
Convexity	7	3080	0.23 %
Shrinkage	0	3081	0.00 %
Cracks	23	3079	0.75 %
Slag	19	3081	0.62 %
Tungsten/Inclu	1	3081	0.03 %
Porosity	20	3081	0.65 %
Undercut	0	3081	0.00 %
Surface	5	3081	0.16 %
Burnthru	1	3081	0.03 %
Film Artifact	8	3081	0.26 %
Missing Welds	14		

OVERALL % CHARACTERISTIC DEVIANT: 0.65 %

INS 018 WEP Radiography Review List of Deviant Packages

Inspection data report on all examination packages that required radiography.

This report was for Suitability for Service and Engineering Evaluation's request for an Inspection Data Report on all welds with radiographic inspection. The report was in package number sequence and listed welds with an "R" in LOFUSION, INPENETRA, CONCAVITY, CONVEXITY, SHRINKAGE, CRACKS, SLAG, TUNGSTENIN, POROSITY, UNDERCUT, SURFACE, BURNTHRU, or FILMART. A "YES" was printed in the DEVIANT WELD column. If RAD_TECH was equal to an "R", then the report listed a "YES" under the column REJECTED TECHNIQUE. If MIS_WELD was a reject, then the words "MISSING FILM" was printed in the DEVIANT WELD column. An examination package could have a "YES" in both columns, therefore the totals at the end of the report were for the column only, and not the crossfoot.

INS 018 WEP Radiography Review List of Deviant Packages

10/01/87
13:35:43
INS018-R0

WEP RADIOGRAPHY REVIEW LIST OF DEVIANT PACKAGES

PACKAGE NO.	DEVIANT WELD	REJECTED TECHNIQUE
A-0041		YES
B-0015	YES	
B-0017		YES
B-0022		YES
B-0029	YES	
B-0037	YES	
B-0090		YES
034-0001		YES
034-0002		YES
249-0004	YES	
249-0014	YES	
249-0020	YES	
249-0031	YES	
249-0042	YES	
249-0050	YES	
249-0056	YES	
249-0058	YES	
249-0061	YES	
249-0063	YES	
249-0065	YES	
249-0069	YES	
249-0072	YES	
249-0080	YES	
249-0085	YES	
249-0103	YES	
249-0104	YES	
249-0106	YES	
249-0133	YES	
249-0171	YES	
249-0178	YES	
249-0208	YES	
249-0266		YES
249-0269	YES	
249-0275		YES
249-0281	YES	
249-0290	MISSING FILM	
249-0305	YES	
249-0307	YES	
249-0324	YES	
249-0331	YES	
249-0336	YES	
249-0357	YES	
249-0383	YES	

INS 101 Inspection Data Report on Weld Evaluation Project

Inspection Data Report on each selected group, summarized by type of test the number of components and welds inspected, % component deviant (number of components deviant), % of welds deviant (number of welds deviant). The visual examination data was listed first, then dye penetrant, magnetic particles, ultrasonic, and finally radiographic tests with six columns stating number of components, welds and the associated percent deviant for each.

This report was distributed on request.

INS 101 Inspection Data Report on Weld Evaluation Project

10/01/87
13:39:40
INS 101-R1

INSPECTION DATA REPORT ON WELD EVALUATION PROJECT

GROUP DESIGNATOR: 214

GROUP TITLE: WINTER 1983 FABRICATED N/S VALVE ROOM STEEL

Type Of NDE Test	Inspected Comp.	Inspected Weld	Component % Deviant	Welds % Deviant*
VISUAL	61	177	26.23(16)	17.51(31)
DYE PENETRANT	0	0	0.00(0)	0.00(0)
MAG. PARTICLE	0	0	0.00(0)	0.00(0)
ULTRASONIC	41	81	31.71(13)	22.22(18)
RADIOGRAPHIC	0	0	0.00(0)	0.00(0)

NOTE:
* TVA Prior Resolutions and G29 Workmanship Criteria that are not code relevant have been removed.

INS 201 Inspection Data Report of ASME, ANSI, AWS Welds

Inspection Data Report on ASME, ANSI, AWS welds.

The report contained four pages, it was in the same format as report INS001. A one page summary listed all ASME, all ANSI, or AWS groups combined, then a separate page was printed to total all procedure types for all groups.

INS 201 Inspection Data Report of ASME, ANSI, AWS Welds

10/01/87 PAGE 1
13:41:23
INS 201-R0

INSPECTION DATA REPORT ON ASME WELDS

NO. OF INSPECTION TO BE PERFORMED: 593
% INSPECTED (ACTUAL NUMBER INSPECTED): 100.00 (593)
% OF COMPONENTS DEVIANT: 35.08 (208)
TOTAL NUMBER OF WELDS: 597
% OF WELDS DEVIANT: 35.18 (210)
TOTAL CHARACTERISTICS: 6278
% CHARACTERISTIC DEVIANT: 6.15 (386)

ATTRIBUTES FOR VISUAL TESTS	A*	B*	C*	D*
1. Cracks (Linear Indications).....	3	560	0.54	0.78
2. Overlap	5	432	1.16	1.30
3. Undercut.....	12	472	2.54	3.11
4. Lack of Fusion.....	13	469	2.77	3.37
5. Incomplete Penetration.....	11	42	26.19	2.85
6. Slag .....(non relevant).....	8	469	1.71	2.07
7. Visible Porosity.....	59	472	12.50	15.28
8. Weld Spatter (non relevant).....	44	472	9.32	11.40
9. Arc Strikes (non relevant).....	142	480	29.58	36.79
10. Coarse Ripples.	1	419	0.24	0.26
11. Grooves.....	2	419	0.48	0.52
12. Abrupt Ridges.	2	419	0.48	0.52
13. Valleys.....	2	419	0.48	0.52
14. Min Sect Thickness.	33	527	6.26	8.55
15. Taper.....	1	159	0.63	0.26
16. Maximum Offset.....	0	7	0.00	0.00
17. Reinforcement.....	41	361	11.36	10.62
18. Fillet/Socket Weld Size.....	7	115	6.09	1.81

No. of inaccessible welds 55

NOTE:
TVA Prior Resolutions have been removed.
Only relevant attributes included in total numbers.
Component deviant summary includes components
with deviant relevant attributes .

A* = Total deviants for this attribute in that group.
B* = Number of times this attribute checked.
C* = Deviation Ratio (Column A / # times attribute checked)
D* = % deviants for this attribute. (Column A / Sum of Column A)

APPENDIX B

ABSTRACTS AND TYPICAL SAMPLES OF REPORTS FROM TRACKING DATA BASE

APPENDIX B

ABSTRACTS AND TYPICAL SAMPLES OF REPORTS FROM TRACKING DATA BASE

TRACKING REPORT ABSTRACTS

REPORT TITLE	PAGE
EPT 001 Status Report by Group	B-3
EPT 002 Examination Packages Remaining by Priority	B-5
EPT 003 SSEE Progress Status	B-7
EPT 004 Inspections to be Done	B-9
EPT 005 WEP Inspectors	B-11
EPT 006 SSEE Review	B-13
EPT 008 Package List with ID's	B-15
EPT 009 Inaccessible Components	B-17
EPT 010 Walkdown Record	B-19
EPT 015 Project Status Summary	B-21
EPT 016 Welds Listed by Class	B-23
EPT 101 Status Report Duplicate Supplement	B-25
EPT 115 Status Report Summary	B-27
EPT 215 Status Report Summary	B-29
EPT 315 Status Report Summary	B-31

EPT 001 Status Report by Group

This report listed all examination packages by group with dates associated to each package.

- Examination packages that had been identified as a duplicate were not listed.
- Only the last deviation was listed.
- Dates were displayed exactly as input.
- Inaccessible packages were not printed.
- The report was printed every Tuesday and Friday with data as of the previous day's input.

EPT 001 Status Report by Group

Page No. 1
09/30/87
11:16:55

WEP EXAMINATION PACKAGE STATUS REPORT
EPT 001.R2

Package Number	Status	TVA Documents Complete	Exam Package Complete	Welds Ready for Exam	I/E Complete	Deviation & Rev	Actual TVA Nonconform Rev Date	SFS/CA Evaluation Complete	SFS/CA Concur Complete	Corrective Action Required	DR Closed Date	Package Closed Date	Comment
Group A - ASME Small Bore Piping					Samples Required: 64								
A-0001		04/14/86	04/15/86	04/12/86	04/26/86	A-0001 0	05/06/86	07/01/86	07/28/86		02/10/87	02/10/87	
A-0002		/ /	/ /	/ /	07/18/86	A-0002 1	07/23/86	08/06/86	08/18/86		02/23/87	02/23/87	
A-0003		04/16/86	04/17/86	04/12/86	04/23/86	A-0003 0	06/16/86	07/01/86	09/09/86		03/23/87	03/23/87	
A-0004		/ /	/ /	/ /	08/18/86	A-0004 1	08/25/86	09/09/86	09/12/86		08/25/86	10/18/86	
A-0005		04/15/86	04/16/86	04/18/86	04/30/86	A-0005 0	05/05/86	07/01/86	07/25/86		02/10/87	02/10/87	
A-0006		/ /	/ /	/ /	10/17/86	A-0006 1	11/03/86	01/01/01	/ /		10/17/86	10/17/86	
A-0007		04/15/86	04/16/86	04/21/86	04/25/86	A-0007 0	05/01/86	07/01/86	07/15/86		02/12/87	02/12/87	
A-0009		04/14/86	04/15/86	04/11/86	04/24/86		/ /	/ /	/ /		/ /	10/18/86	
A-0010		04/15/86	04/16/86	04/14/86	04/26/86	A-0010 0	05/03/86	07/17/86	09/09/86		02/18/87	02/18/87	
A-0011		04/14/86	04/16/86	04/12/86	04/20/86	A-0011 0	04/25/86	07/01/86	07/21/86		02/10/87	02/10/87	
A-0013		04/15/86	04/16/86	04/14/86	04/20/86		/ /	/ /	/ /		/ /	10/18/86	
A-0014		/ /	/ /	/ /	08/15/86	A-0014 2	02/17/87	01/12/87	01/19/87		03/23/87	03/23/87	
A-0015		04/15/86	04/16/86	04/14/86	04/22/86		/ /	/ /	/ /		/ /	10/18/86	
A-0016		04/15/86	04/15/86	04/11/86	04/21/86		/ /	/ /	/ /		/ /	10/18/86	
A-0017		/ /	/ /	/ /	07/23/86	A-0017 1	/ /	01/01/01	/ /		08/15/86	10/18/86	
A-0018		04/15/86	05/16/86	04/15/86	06/20/86		/ /	/ /	/ /		/ /	10/18/86	
A-0019		04/15/86	04/16/86	07/22/86	04/30/86		/ /	/ /	/ /		/ /	10/18/86	
A-0020		04/15/86	04/16/86	04/30/86	04/29/86	A-0020 0	/ /	/ /	/ /		06/18/86	10/17/86	
A-0021		04/15/86	04/16/86	04/14/86	04/26/86		/ /	/ /	/ /		/ /	10/18/86	
A-0022		04/14/86	04/15/86	04/14/86	04/29/86		/ /	/ /	/ /		/ /	10/18/86	
A-0023		04/15/86	04/15/86	04/12/86	04/22/86	A-0023 0	06/20/86	07/01/86	09/09/86		03/23/87	03/23/87	
A-0024		04/15/86	04/16/86	04/18/86	04/30/86	A-0024 0	05/05/86	07/01/86	07/15/86		02/10/87	02/10/87	
A-0025		04/14/86	04/15/86	04/11/86	04/28/86		/ /	/ /	/ /		/ /	10/18/86	
A-0026		/ /	/ /	/ /	09/17/86	A-0026 2	08/22/86	11/24/86	12/05/86		03/23/87	03/23/87	
A-0027		04/14/86	04/16/86	04/16/86	04/26/86		/ /	/ /	/ /		/ /	10/18/86	
A-0028		04/14/86	04/15/86	04/14/86	04/17/86		/ /	/ /	/ /		/ /	10/18/86	
A-0029		04/23/86	04/28/86	04/12/86	05/03/86	A-0029 0	05/06/86	08/04/86	08/22/86		02/12/87	02/12/87	
A-0030		04/15/86	04/16/86	04/12/86	05/05/86	A-0030 0	05/07/86	07/01/86	07/15/86		01/20/87	02/10/87	
A-0031		04/16/86	04/17/86	04/19/86	04/30/86	A-0031 0	06/20/86	07/01/86	09/09/86		03/23/87	03/23/87	
A-0032		04/15/86	04/16/86	04/18/86	04/30/86	A-0032 0	05/05/86	07/01/86	07/15/86		02/10/87	02/10/87	
A-0033		04/14/86	04/15/86	04/11/86	04/22/86	A-0033 0	04/25/86	07/01/86	07/25/86		02/10/87	02/10/87	
A-0036		04/23/86	04/28/86	04/12/86	05/05/86	A-0036 0	05/07/86	07/01/86	07/25/86		02/10/87	02/10/87	
A-0038		04/15/86	04/16/86	04/12/86	04/26/86		/ /	/ /	/ /		/ /	10/18/86	
A-0041	ORIG	/ /	/ /	/ /	08/20/86	A-0041 2	08/27/86	03/06/87	/ /	CADR A	03/23/87	03/23/87	SAME AS 258-0054
A-0043		/ /	/ /	/ /	12/16/86	A-0043 1	/ /	/ /	/ /		12/18/86	12/18/86	
A-0044		04/15/86	04/16/86	04/14/86	04/28/86	A-0044 0	06/20/86	07/01/86	09/09/86		03/20/87	03/20/87	
A-0045		04/15/86	04/16/86	04/10/86	04/22/86		/ /	/ /	/ /		/ /	10/18/86	
A-0047		04/15/86	04/16/86	04/12/86	04/25/86		/ /	/ /	/ /		/ /	10/15/86	
A-0048		04/15/86	04/16/86	04/12/86	04/21/86		/ /	/ /	/ /		/ /	10/15/86	
A-0049		04/15/86	04/16/86	04/10/86	04/23/86		/ /	/ /	/ /		/ /	10/15/86	
A-0052		04/16/86	04/17/86	04/12/86	04/22/86		/ /	/ /	/ /		/ /	10/15/86	
A-0053		04/17/86	04/18/86	04/12/86	04/22/86	A-0053 0	09/05/86	09/19/86	09/30/86		12/11/86	12/11/86	
A-0054		/ /	/ /	/ /	01/28/87	A-0054 2	/ /	/ /	/ /		01/29/87	01/29/87	
A-0055		04/14/86	04/15/86	04/21/86	04/25/86		/ /	/ /	/ /		/ /	10/15/86	
A-0056		04/14/86	04/15/86	04/14/86	04/21/86	A-0056 0	04/25/86	07/01/86	07/21/86		02/10/87	02/10/87	
A-0057		04/16/86	04/17/86	04/14/86	04/21/86		/ /	/ /	/ /		/ /	10/15/86	

EPT 002 Examination Packages Remaining by Priority

This report was the same as EPT 001, except that it listed only those packages that have not yet been closed.

EPT 002 Examination Packages Remaining by Priority

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09/30/87

COMPONENTS REMAINING IN PROGRESS
WEP EXAMINATION PACKAGE STATUS REPORT
EPT 002.R1

Package Number		TVA Documents Complete	Exam Package Complete	Welds Ready For Exam	I/E Complete	Deviation & Rev	Actual TVA Nonconform Revw Date	SFS/CA Evaluation Complete	SFS/CA Concur Complete	Corrective Action Required	OR Closed Date	Package Closed Date	Comments
** Group GROUP E EXPANSION													
263-0060	1	06/02/87	06/03/87	06/04/87	06/03/87	263-0060 0	06/10/87	07/24/87	07/27/87		/ /	/ /	
** Subtotal **	1												
** Group 264 - ASME Class MC Welds													
264-8001	1	/ /	/ /	/ /	/ /	CADR264-8001 0	07/20/87	/ /	/ /	CADR 264	/ /	/ /	
** Subtotal **	1												
*** Total ***	2												

EPT 003 SSEE Progress Status

This report, prepared for WEP's SSEE department, listed data summaries for all groups, in group sequence. The summary data was counted by examining records in WTGTRAK.

- Only groups with a required sample size greater than zero were listed.
- Only accessible, non-duplicate packages were counted in the summaries.
- Only the last DR on each package was counted.
- Report was printed daily after data input.

EPT 003 SSEE Progress Status

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00/10/87

RESULTS OF WEP SSEE GROUP ACTIVITIES

EPT 003.R2

Group	Exam Pkgs Reqd	EP's with DR's	DR's Concurred by SSEE	DR's Reviewed Since 12/05/86	DR's Remaining in TVA	DR's Remaining in SSEE
A - ACME Small Bore Piping	64	35	25	3	0	0
B - ACME Large Bore Piping	74	55	36	12	0	0
C - ANSI Piping	107	94	87	34	0	0
D - Civil Welds (Post 2/13/81)	67	26	22	2	0	0
E - Civil Welds (Pre 2/13/81)	64	41	35	19	0	0
F - Pipe Supports	65	19	13	1	0	0
G - Instrument Supports (Post 2/13/81)	66	32	25	1	0	0
H - Instrument Supports (Pre 2/13/81)	57	41	31	1	0	0
I - Electrical Supports (Post 2/13/81)	64	18	11	0	0	0
J - Electrical Supports (Pre 2/13/81)	64	38	31	6	0	0
K - Duct Supports (Post 2/13/81)	64	26	19	7	0	0
L - Duct Supports (Pre 2/13/81)	64	32	24	4	0	0
2 - FP3 Weld-o-lets by Spread Room	2	2	2	2	0	0
3 - Beam A15K - South Valve Room	2	2	2	2	0	0
4 - Box Anchor Welds	2	1	0	0	0	0
6 - 16" SS Pipe - RHR Pumps	2	2	2	2	0	0
8 - System 78 Piping - Aux Bldg	6	5	5	3	0	0
9 - 10" SS Pipe - Aux Bldg HE Room	2	2	2	0	0	0
12 - MSRV Pipe Restraint SV Room	2	2	2	2	0	0
13 - 8" ECRW Pipes - Annulus	26	18	12	2	0	0
14 - 'T' Bar Shims - Loop 3 & 4	4	4	2	2	0	0
15 - Hangers - B&V Supports	13	8	3	0	0	0
18 - Small Bore Piping Window	1	0	0	0	0	0

EPT 004 Inspections to be Done

This report listed those packages which were to be inspected.

- Only accessible, non-duplicate packages were listed.
- Only packages which had been assigned to a set were shown.
- Data was displayed as it was input.
- The report was printed on request.

EPT 004 Inspections to be Done

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09/30/87

INSPECTIONS REMAINING TO BE DONE

EPT 004.R0----------

Package Number	Status	Date Package Reported Ready	Date Component Reported Ready	Date Inspected		
** Group 253						
* Priority						
253-0028	ORIG	10/20/86	07/30/86	11/11/11	SAME AS 249-0363/4/5	1
* Subsubtotal *						1
** Subtotal **						1
** Group 260						
* Priority						
260-0059		04/24/87	04/22/87	11/13/13		1
* Subsubtotal *						1
** Subtotal **						1
** Group 262						
* Priority						
262-0150		/ /	/ /	/ /		1
* Subsubtotal *						1
** Subtotal **						1
** Group 263						
* Priority						
263-0004		05/18/87	05/28/87	11/13/13		1
263-0034		05/21/87	05/11/87	11/11/11		1
263-0045		05/12/87	05/21/87	11/11/11		1
263-0048		05/12/87	05/09/87	11/11/11		1
263-0053		05/19/87	/ /	/ /		1
* Subsubtotal *						5
** Subtotal **						5
** Group 264						
* Priority						
264-0004		05/12/87	05/10/87	11/11/11		1
264-0008		05/12/87	05/09/87	11/11/11		1
264-0012		05/13/87	05/09/87	11/11/11		1
264-0013		05/13/87	05/09/87	11/11/11		1

EPT 005 WEP Inspectors

This report listed the WEP inspector identifications for each inspected package.

- Only accessible, non-duplicate packages were shown.
- Identifications of all inspectors were shown. If there were more than one, then the identifications were separated by slashes (/).
- Only the record with a unique (component) identifier was used.
- Data was displayed as it was input.
- The report was printed on request.

EPT 005 WEP Inspectors

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09/30/87

LIST OF COMPONENTS
AND THE INSPECTOR THAT PERFORMED THE INSPECTION
EPT 005.R0----------

Package Number	Deviation & Rev No.	Date of Inspection or Revision	Inspector Identification Number
** Group A			
A-0001	A-0001 0	04/26/86	178/185/199
A-0002	A-0002 0	04/26/86	180/199
A-0003	A-0003 0	04/23/86	174/199
A-0004	A-0004 0	04/20/86	181/199
A-0005	A-0005 0	04/30/86	179/199
A-0006	A-0006 0	04/25/86	189/199
A-0007	A-0007 0	04/25/86	173/199
A-0009		04/24/86	189/199
A-0010	A-0010 0	04/26/86	189/199
A-0011	A-0011 0	04/20/86	181/199
A-0013		04/20/86	181/199
A-0014	A-0014 0	04/20/86	181/199
A-0015		04/22/86	188/199
A-0016		04/21/86	188/199
A-0017	A-0017 0	04/22/86	186
A-0018		06/20/86	174
A-0019		04/30/86	170/199
A-0020	A-0020 0	04/29/86	182/185/199
A-0021		04/26/86	181/199
A-0022		04/29/86	170/199
A-0023	A-0023 0	04/22/86	184/199
A-0024	A-0024 0	04/30/86	179/199
A-0025		04/28/86	186
A-0026	A-0026 0	04/23/86	184/199
A-0027		04/26/86	184/199
A-0028		04/17/86	181/199
A-0029	A-0029 0	05/03/86	176/199
A-0030	A-0030 0	05/05/86	199/195/188
A-0031	A-0031 0	04/30/86	170/186
A-0032	A-0032 0	04/30/86	170/199
A-0033	A-0033 0	04/22/86	184/199
A-0036	A-0036 0	05/05/86	176/199
A-0038		04/26/86	181/199
A-0041	A-0041 0	04/28/86	170/188/199
A-0043	A-0043 0	04/26/86	173/199
A-0044	A-0044 0	04/28/86	182/185/199
A-0045		04/22/86	186
A-0047		04/25/86	171/199
A-0048		04/21/86	188/199
A-0049		04/23/86	186
A-0052		04/22/86	174/199
A-0053	A-0053 0	04/22/86	199/179
A-0054	A-0054 0	05/06/86	186/
A-0055		04/25/86	173/199
A-0056	A-0056 0	04/21/86	177/199
A-0057		04/21/86	186

EPT 006 SSEE Review

This report was prepared for WEP's SSEE department. It listed those packages which were currently being evaluated by SSEE, in the order in which SSEE received them.

- Only the last deviation revision was listed.
- Data was displayed as it was input.
- Only accessible, non-duplicate packages were listed.
- The report was printed daily, after that day's input.

EPT 006 SSEE Review

Page No. 1
09/30/87

PACKAGES IN SSEE FOR REVIEW

EPT 006.R2

PACKAGE NUMBER	DEVIATION & REV	DATE INTO TVA - OE	DATE INTO EG&G SSEE	STATUS OF CORRECTIVE ACTION	COMMENTS	COUNT
255-0204	E-0204 1	10/06/86	12/29/86			1
256-0549	E-0549 2	10/06/86	12/29/86			1
264-1001	A-0039 2	02/13/87	02/13/87			1
220-0007	220-0007 0	09/11/86	03/09/87			1
220-0015	220-0015 0	09/11/86	03/09/87			1
264-1000	A-0034 2	10/15/86	03/12/87			1
207-0009	207-0009 0	09/05/86	03/26/87			1
214-0065	214-0065 2	01/02/87	03/26/87			1
L-0038	L-0038 3	12/12/86	03/26/87			1
254-0416	254-0416 0	01/07/87	04/02/87			1
261-0004	261-0004 0	03/26/87	04/03/87			1
261-0001	261-0001 0	03/26/87	04/04/87			1
254-0436	254-0436 0	01/19/87	05/22/87			1
*** Total ***						13

EPT 008 Package List with ID's

This report was used by EPDA as a way of matching up unique component identifications with package numbers. Packages were listed in package number order, with page breaks for each group.

- Only accessible, non-duplicate packages were listed.
- Packages had to have a schedule number less than 99.
- Only the record with a component identification was printed.
- Data was displayed as it was input.
- The report was printed on request.

LIST OF EXAMINATION PACKAGES WITH UNIQUE IDENTIFIERS
EPT 008.R3----------

PACKAGES TO BE PREPARED AS OF:	PACKAGE NUMBER	ID NUMBER		TEST TYPE	ACC COUNT	TVA DRAWINGS RECEIVED	EXAM PACKAGE COMPLETE	WELDS READY FOR EXAM	INSPECTED	DATE INSP COMP	DEVIATION & REV	ADDUP
** Group 209												
07/23/86	209-0001	1003BD00105	229		YES	1 07/30/86	08/01/86	07/23/86	12/04/86	12/04/86	209-0001 0	1
07/25/86	209-0002	1001AD00102	416		YES	1 07/29/86	07/30/86	07/25/86	12/04/86	12/04/86	209-0002 0	1
07/18/86	209-0003	1067HT12420	176		YES	1 07/23/86	07/30/86	07/19/86	12/04/86	12/04/86	209-0003 0	1
07/23/86	209-0004	1067HT12715	180		YES	1 07/30/86	08/01/86	07/23/86	12/04/86	12/04/86	209-0004 0	1
07/24/86	209-0005	1003BD37116	426		YES	1 07/29/86	07/30/86	07/25/86	12/04/86	12/04/86	209-0005 0	1
08/19/86	209-0006	1001AD00306	321		YES	1 08/14/86	08/18/86	08/18/86	12/04/86	12/04/86	209-0006 0	1
07/28/86	209-0007	1003BD00309	298		YES	1 08/01/86	08/05/86	07/25/86	12/04/86	12/04/86	209-0007 0	1
08/05/86	209-0008	1001AD00301	134		YES	1 08/07/86	08/05/86	07/25/86	12/04/86	12/04/86	209-0008 0	1
07/18/86	209-0009	1003BD00208	295		YES	1 07/24/86	07/24/86	07/22/86	12/04/86	12/04/86	209-0009 0	1
07/19/86	209-0010	1001AD00607	454		YES	1 08/01/86	08/02/86	07/28/86	12/04/86	12/04/86	209-0010 0	1
07/30/86	209-0011	1003BD00217	296		YES	1 08/01/86	08/02/86	07/30/86	12/04/86	12/04/86	209-0011 0	1
07/23/86	209-0012	1067HT12415	176		YES	1 07/30/86	07/31/86	07/25/86	12/04/86	12/04/86	209-0012 0	1
07/19/86	209-0014	1001AD00615	458		YES	1 08/01/86	08/02/86	07/28/86	12/04/86	12/04/86	209-0014 0	1
08/02/86	209-0015	1001AD00105	335		YES	1 08/05/86	08/07/86	08/01/86	12/04/86	12/04/86	209-0015 0	1
07/19/86	209-0016	1001AD00112	285		YES	1 08/04/86	08/06/86	07/30/86	12/04/86	12/04/86	209-0016 0	1
07/24/86	209-0017	1001AD00907	449		YES	1 07/29/86	07/30/86	07/25/86	12/04/86	12/04/86	209-0017 0	1
08/25/86	209-0018	1001AD00114	250		YES	1 09/15/86	09/16/86	09/02/86	12/04/86	12/04/86	209-0018 0	1
07/18/86	209-0019	1067HT12722	180		YES	1 07/30/86	07/31/86	07/23/86	12/04/86	12/04/86	209-0019 0	1
07/19/86	209-0020	1001AD00104	414		YES	1 08/05/86	08/07/86	08/01/86	12/04/86	12/04/86	209-0020 0	1
07/23/86	209-0021	1001AD00314	459		YES	1 08/04/86	08/02/86	07/25/86	12/04/86	12/04/86	209-0021 0	1
08/05/86	209-0022	1001AD00608	447		YES	1 08/07/86	08/08/86	07/25/86	12/04/86	12/04/86	209-0022 0	1
07/30/86	209-0023	1001AD00602	327		YES	1 08/01/86	08/02/86	07/30/86	12/04/86	12/04/86	209-0023 0	1
08/06/86	209-0024	1001AD00905	232		YES	1 08/07/86	08/08/86	08/05/86	12/04/86	12/04/86	209-0024 0	1
08/01/86	209-0026	1003BD37016	430		YES	1 08/04/86	08/06/86	07/31/86	12/04/86	12/04/86	209-0026 0	1
07/30/86	209-0027	1003BD00112	325		YES	1 08/01/86	08/02/86	07/30/86	12/04/86	12/04/86	209-0027 0	1
07/30/86	209-0028	1001AD00904	398		YES	1 08/02/86	08/05/86	07/28/86	12/04/86	12/04/86	209-0028 0	1
07/30/86	209-0030	1001AD00908	438		YES	1 08/01/86	08/02/86	07/25/86	12/04/86	12/04/86	209-0030 0	1
07/28/86	209-0031	1001AD00903	108		YES	1 08/01/86	08/02/86	07/25/86	12/04/86	12/04/86	209-0031 0	1
07/18/86	209-0032	1067HT12716	180		YES	1 07/30/86	07/31/86	07/23/86	12/04/86	12/04/86	209-0032 0	1
07/18/86	209-0033	1067HT12719	180		YES	1 07/30/86	07/31/86	07/23/86	12/04/86	12/04/86	209-0033 0	1
07/19/86	209-0034	1003BD00104	212		YES	1 07/29/86	07/30/86	07/25/86	12/04/86	12/04/86	209-0034 0	1
07/18/86	209-0035	1003BD37217	433		YES	1 07/30/86	07/31/86	07/25/86	12/04/86	12/04/86	209-0035 0	1
07/18/86	209-0036	1067HT12414	176		YES	1 07/30/86	07/31/86	07/23/86	12/04/86	12/04/86	209-0036 0	1
07/18/86	209-0037	1001AD00901	397A		YES	1 08/02/86	08/05/86	07/28/86	12/04/86	12/04/86	209-0037 0	1
07/18/86	209-0038	1067HT12720	180		YES	1 07/30/86	07/31/86	07/23/86	12/04/86	12/04/86	209-0038 0	1
07/19/86	209-0039	1001AD00304	318		YES	1 08/04/86	08/06/86	07/30/86	12/04/86	12/04/86	209-0039 0	1
07/18/86	209-0041	1067HT12421	176		YES	1 07/30/86	08/01/86	07/23/86	12/04/86	12/04/86	209-0041 0	1
07/19/86	209-0042	1001AD00307	452		YES	1 07/29/86	07/30/86	07/25/86	12/04/86	12/04/86	209-0042 0	1
07/28/86	209-0043	1001AD00107	439		YES	1 08/01/86	08/02/86	07/25/86	12/04/86	12/04/86	209-0043 0	1
07/23/86	209-0044	1001AD00917	451		YES	1 07/30/86	07/31/86	07/24/86	12/04/86	12/04/86	209-0044 0	1
08/05/86	209-0045	1001AD00116	450		YES	1 08/07/86	08/08/86	08/06/86	12/04/86	12/04/86	209-0045 0	1
08/19/86	209-0046	1001AD00609	344		YES	1 08/20/86	08/22/86	08/19/86	12/04/86	12/04/86	209-0046 0	1
** Subtotal **						42						42

EPT 008 Package List with ID's

EPT 009 Inaccessible Components

This report listed those packages whose components were deemed inaccessible. Packages were listed in package number order and grouped by population (group) number.

- All applicable packages (even duplicates) were listed.
- Data was displayed as it was input.
- The report was printed on request.

EPT 009 Inaccessible Components

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COMPONENTS REPORTED TO BE INACCESSIBLE

EPT 009.R0----------

Package Number	Stat	Accessible	Date of Walkdown	Date of Inspection (if any)	Comment
** Group A					
A-0008		NO	04/10/86	/ /	
A-0012		NO	04/09/86	/ /	
A-0035		NO	04/10/86	04/28/86	
A-0040		NO	04/10/86	/ /	
A-0042		NO	04/09/86	/ /	
A-0050		NO	05/21/86	11/12/12	* WEP ADDTL INFO
A-0051		NO	04/16/86	/ /	
A-0064		NO	04/09/86	/ /	
A-0067		NO	05/20/86	/ /	GROUTED BASEPLATE
A-0074		NO	05/28/86	/ /	
** Group B					
B-0002		NO	04/09/86	/ /	
B-0007		NO	04/09/86	/ /	
B-0009		NO	04/09/86	11/12/12	
B-0011	DUP	NO	04/09/86	04/22/86	INSP UNDER 013-0027
B-0016		NO	04/09/86	/ /	
B-0018		NO	04/12/86	/ /	
B-0019		NO	04/09/86	/ /	
B-0028		NO	04/09/86	/ /	A/I MISSING WELD SZ
B-0035		NO	05/03/86	11/12/12	
B-0040		NO	05/22/86	/ /	GLYCOL-MATL HOLD
B-0045		NO	05/03/86	11/12/12	
B-0047		NO	04/11/86	/ /	
B-0051		NO	04/09/86	/ /	
B-0067		NO	04/11/86	/ /	
B-0072		NO	04/15/86	/ /	
B-0076		NO	05/08/86	/ /	
B-0079		NO	06/12/86	/ /	
B-0092		NO	11/03/86	/ /	
** Group C					
C-0001		NO	06/06/86	/ /	
C-0030		NO	05/15/86	11/14/14	* TVA ADDNL INFO
C-0031		NO	06/06/86	11/12/12	* TVA ADDNL INFO
C-0044		NO	05/22/86	/ /	
C-0093		NO	05/15/86	11/12/12	* TVA ADDNL INFO
C-0094		NO	05/15/86	11/14/14	* TVA ADDNL INFO
C-5003		NO	02/19/87	/ /	
C-5008		NO	02/19/87	/ /	
C-5018		NO	02/25/87	11/11/11	
C-5019		NO	02/13/87	/ /	
C-5024		NO	02/19/87	/ /	
C-5030		NO	03/13/87	11/11/11	
C-5031		NO	02/13/87	11/11/11	

EPT 010 Walkdown Record

This report produced a listing of the examination package numbers assigned to a weld group when it was populated. It was printed whenever a new group was added, or when new packages were added to an existing group, or it was printed on request. The data in the right-hand columns were entered by the inspector.

GROUP: 265

ASSESSMENT PLAN #

NUMBER OF COMPONENTS TO BE EXAMINED - 10

GROUP WALKDOWN COMPLETE - _____ _____ I/E MANAGER

EPT-010.R0

RECORD NUMBER	COMPONENT	EXAM TYPE	DATE OF WALKDOWN	FIRST RESULTS	TAG NUMBER	WALKDOWN RESULTS
0001	0032 A786-1150	10				
0002	1043 L232B-0005	3				
0003	0032 206-004A	3				
0004	1072 L013-0004	8				
0005	1070 L191A-0002	2				
0006	1070 L048-0003	6				
0007	1070 L012-0008	3				
0008	1043 L231A-0010	14				
0009	0077 L113A-P001	1				
0010	1087 FSV-21RD	4				

EPT 010 Walkdown Record

EPT 015 Project Status Summary

This report summarized data from the dataset WTGTRAK by group.

- Only the last deviation revision was counted.
- Inaccessible packages were not counted.
- Duplicate packages were counted.
- The report was distributed every Tuesday and Friday with data as of the previous day's input.

EXAMINATION PACKAGES FOR DOE/WEP GROUP ACTIVITIES

EPT 015.R2 (Includes Duplicates)

Group	Min. Pkgs Reqd	Pkgs Prep-ared	Compo Acces-sible	nents Insp-ected	EP's with DR's	DR's in TVA DNE	DR's in WEP SSEE	DR's Closed	EP's Closed	Group Closure Rev. #	Final Closure	Comment
A - ASME Small Bore Piping	64	67	65	64	35	0	0	35	65	0	09/28/87	
B - ASME Large Bore Piping	74	79	75	74	55	0	0	55	75	0	09/22/87	
C - ANSI Piping	107	153	107	107	94	0	0	94	107	0	09/02/87	
D - Civil Welds (Post 2/13/81)	67	78	67	67	26	0	0	26	67	0	09/04/87	
E - Civil Welds (Pre 2/13/81)	64	75	64	64	41	0	0	41	64	0	/ /	
F - Pipe Supports	65	69	65	65	19	0	0	19	65	0	09/02/87	
G - Instrument Supports (Post 2/13/81)	66	68	66	66	32	0	0	32	66	0	09/02/87	
H - Instrument Supports (Pre 2/13/81)	57	58	57	57	41	0	0	41	57	0	09/03/87	
I - Electrical Supports (Post 2/13/81)	64	69	64	64	18	0	0	18	64	0	09/02/87	
J - Electrical Supports (Pre 2/13/81)	64	81	64	64	38	0	0	38	64	0	09/04/87	
K - Duct Supports (Post 2/13/81)	64	71	64	64	26	0	0	26	64	0	09/02/87	
L - Duct Supports (Pre 2/13/81)	64	73	64	64	32	0	0	32	64	0	09/02/87	
M - HVAC Duct, Coincides with EC-SP-15	0	0	0	0	22	4	1	0	0	0	08/27/87	
1 - DR/EA Pipe Whip Restraints	0	0	0	0	0	0	0	0	0	1	08/20/87	
2 - FPS Weld-o-lets by Spread Room	2	2	2	2	2	0	0	2	2	1	08/31/87	
3 - Beam A15K - South Valve Room	2	2	2	2	2	0	0	2	2	0	/ /	
4 - Box Anchor Welds	2	2	2	2	1	0	0	1	2	2	08/27/87	
5 - DR/EA Welds Buried Under Reactor	0	0	0	0	0	0	0	0	0	2	08/21/87	
6 - 16" SS Pipe - RHR Pumps	2	4	2	2	2	0	0	2	2	2	08/28/87	
7 - DR/EA Arc Strike 18"CS Pipe EL 713	0	0	0	0	0	0	0	0	0	2	09/02/87	
8 - System 78 Piping - Aux Bldg	6	6	6	6	5	0	0	5	6	1	09/24/87	
9 - 10" SS Pipe - Aux Bldg HE Room	2	2	2	2	2	0	0	2	2	1	09/01/87	
10 - DR/EA Steam Impingement Sleeve	0	0	0	0	0	0	0	0	0	1	09/03/87	
11 - DR/EA Embedded Beams	0	0	0	0	0	0	0	0	0	0	/ /	

EPT 015 Project Status Summary

EPT 016 Welds Listed by Class

This report listed the welds from populations A and B by weld class.

- Only those records with a component identification was printed
- Each class (A, B, and C) was listed on a separate report form.
- Data was displayed as it was input.
- Duplicate and inaccessible packages were printed.
- The report was printed on request.

EPT 016 Welds Listed by Class

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SPECIAL REPORT

LIST OF POPULATIONS A/B BY CLASS OF WELD

EPT-016

PACKAGE NUMBER	COMPONENT NUMBER	CLASS	ACCESSIBLE	COUNT
A-0006	1062BT21722 20	A	YES	1
B-0143	1063BD09104B00	A		1
B-0056	1068AD23201D00	A	YES	1
B-0160	1068AD23212 00	A		1
B-0017	1068AD23404 00	A	YES	1
B-0071	1068AT12908F10	A	YES	1
B-0022	1074BD05303 00	A	YES	1
B-0088	1074BD05320 00	A		1
B-0180	1087BD04111 00	A		1
*** Total ***				9

EPT 101 Status Report Duplicate Supplement

This report summarized all groups within the WEP population and for each group that contains duplicate examination packages the dupes were listed in detail.

EPT 101 Status Report Duplicate Supplement

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10/01/87
10:08:16

WEP EXAMINATION PACKAGE STATUS REPORT
EPT 101.R0 (Duplicate Supplement)

Package Number	Status	TVA Documents Complete	Exam Package Complete	Holds Ready for Exam	I/E Complete	Deviation & Rev	Actual TVA Nonconform Rsvw Date	SFS/CA Evaluation Complete	SFS/CA Concur Complete	Corrective Action Required	DR Closed Date	Package Closed Date	Comment
Duplicate Samples in Group Being Examined: 0													
Group 222 - Platfrm/Ldrs/Stairs(Pre 2/13/81) Samples Required: 50													
222-0004	DUP	06/06/86	07/15/86	07/07/86	06/11/86	E-0076 0	06/17/86	06/30/86	07/08/86		07/15/86	12/30/86	INSP AS E-0076
222-0019	DUP	06/10/86	07/14/86	07/07/86	06/20/86	E-0207 0	07/07/86	07/22/86	08/08/86		/ /	12/19/86	INSP AS E-0207
222-0026	DUP	07/09/86	07/09/86	07/07/86	07/16/86		/ /	/ /	/ /		/ /	12/30/86	INSP AS E-0715
222-0027	DUP	07/10/86	07/15/86	07/10/86	07/31/86	E-0702 0	08/05/86	/ /	/ /		/ /	12/30/86	INSP AS E-0702
222-0031	DUP	06/14/86	07/15/86	07/07/86	06/23/86	E-0597 0	06/30/86	07/15/86	07/28/86		09/29/86	12/30/86	INSP AS E-0597
222-0052	DUP	/ /	/ /	/ /	09/09/86	222-0052 1	09/16/86	09/19/86	09/22/86		10/17/86	10/17/86	INSP AS E-0850
222-0054	DUP	11/15/15	07/22/86	07/11/86	09/16/86	E-0345 0	/ /	/ /	/ /		/ /	12/30/86	INSP AS E-0345
222-0062	DUP	05/22/86	07/22/86	07/16/86	07/12/86	E-0020 0	07/18/86	/ /	/ /		11/11/11	12/19/86	INSP AS E-0020/DR
222-0063	DUP	06/05/86	07/22/86	07/16/86	06/18/86		/ /	/ /	/ /		/ /	12/30/86	INSP AS E-0248
222-0073	DUP	06/14/86	06/18/86	06/18/86	06/23/86	E-0432 0	06/26/86	07/02/86	07/26/86		10/02/86	12/30/86	INSP AS E-0432
Duplicate Samples in Group Being Examined: 10													
Group 224 - Hanger Lugs Samples Required: 64													
Duplicate Samples in Group Being Examined: 0													
Group 225 - Containment Bldg Conduit Supts Samples Required: 62													
Duplicate Samples in Group Being Examined: 0													
Group 227 - Surge Line Truss Samples Required: 35													
Duplicate Samples in Group Being Examined: 0													
Group 228 - Check Valve to FP System Samples Required: 10													
Duplicate Samples in Group Being Examined: 0													
Group 229 - Steam Generator PDD Supts Samples Required: 18													
Duplicate Samples in Group Being Examined: 0													

EPT 115 Status Report Summary

This report was the same as EPT 015 except that duplicate packages were not counted.

RESULTS OF DOE/WEP GROUP ACTIVITIES

EPT 115.R1 (Excludes Duplicates)

Group	Min. Pkgs Reqd	Compo Acces-sible	nents Insp-ected	EP's with DR's	DR's in TVA DNE	DR's in WEP SSEE	DR's Closed	EP's Closed	Group Closure Rev. #	Final Closure
A - ASME Small Bore Piping	64	65	64	35	0	0	35	65	0	09/28/87
B - ASME Large Bore Piping	74	75	74	55	0	0	55	75	0	09/22/87
C - ANSI Piping	107	107	107	94	0	0	94	107	0	09/02/87
D - Civil Welds (Post 2/13/81)	67	67	67	26	0	0	26	67	0	09/04/87
E - Civil Welds (Pre 2/13/81)	64	64	64	41	0	0	41	64	0	/ /
F - Pipe Supports	65	65	65	19	0	0	19	65	0	09/02/87
G - Instrument Supports (Post 2/13/81)	66	66	66	32	0	0	32	66	0	09/02/87
H - Instrument Supports (Pre 2/13/81)	57	57	57	41	0	0	41	57	0	09/03/87
I - Electrical Supports (Post 2/13/81)	64	64	64	18	0	0	18	64	0	09/02/87
J - Electrical Supports (Pre 2/13/81)	64	64	64	38	0	0	38	64	0	09/04/87
K - Duct Supports (Post 2/13/81)	64	64	64	26	0	0	26	64	0	09/02/87
L - Duct Supports (Pre 2/13/81)	64	64	64	32	0	0	32	64	0	09/02/87
M - HVAC Duct, Coincides with EC-SP-15	0	0	0	22	4	1	0	0	0	08/27/87
1 - DR/EA Pipe Whip Restraints	0	0	0	0	0	0	0	0	1	08/20/87
2 - FPS Weld-o-lets by Spread Room	2	2	2	2	0	0	2	2	1	08/31/87
3 - Beam A15K - South Valve Room	2	2	2	2	0	0	2	2	0	/ /
4 - Box Anchor Welds	2	2	2	1	0	0	1	2	2	08/27/87
5 - DR/EA Welds Buried Under Reactor	0	0	0	0	0	0	0	0	2	08/21/87
6 - 16" SS Pipe - RHR Pumps	2	2	2	2	0	0	2	2	2	08/28/87
7 - DR/EA Arc Strike 18"CS Pipe EL 713	0	0	0	0	0	0	0	0	2	09/02/87
8 - System 78 Piping - Aux Bldg	6	6	6	5	0	0	5	6	1	09/24/87
9 - 10" SS Pipe - Aux Bldg HE Room	2	2	2	2	0	0	2	2	1	09/01/87
10 - DR/EA Steam Impingement Sleeve	0	0	0	0	0	0	0	0	1	09/03/87
11 - DR/EA Embedded Beams	0	0	0	0	0	0	0	0	0	/ /

EPT 115 Status Report Summary

EPT 215 Status Report Summary

This report was similiar to EPT 015 except that it listed the groups in category order. A category was assigned from the requirement in the assessment plan as: Document Review (010), Engineering Evaluation (030), Inspection/Examination (070), Inspection/Examination - Expansion (570). Within each category, the group type (general, specific and special) separated the examination package totals.

- Duplicates were counted in totals.

ORIGINAL EXAMINATION PACKAGES FOR DOE/WEP GROUP ACTIVITIES

EPT 215.R0 (Includes Duplicates)

Group	Min. Pkgs Reqd	Pkgs Prep-ared	Compo Acces-sible	nents insp-ected	EP's with DR's	DR's to TVA DNE	DR's to WEP SSEE	DR's Closed	EP's Closed	Group Closure Rev. #	Final Closure	Comment
** Category 010 Document Review												
* Specific												
1 - DR/EA Pipe Whip Restraints	1	0	0	0	0	0	0	0	0	1	08/20/87	
5 - DR/EA Welds Buried Under Reactor	1	0	0	0	0	0	0	0	0	2	08/21/87	
7 - DR/EA Arc Strike 18"CS Pipe EL 713	1	0	0	0	0	0	0	0	0	2	09/02/87	
11 - DR/EA Embedded Beams	1	0	0	0	0	0	0	0	0	0	/ /	
16 - DR/EA Revw Weld Op Shts / NDE Repts	1	0	0	0	0	0	0	0	0	0	08/31/87	
17 - DR/EA Revw Weld Data/Nos NCR 4582	1	0	0	0	0	0	0	0	0	1	08/24/87	
19 - DR/EA Revw Docs for Verification	1	0	0	0	0	0	0	0	0	1	09/04/87	
23 - DR/EA CAR Min Wall Violation Verify	1	0	0	0	0	0	0	0	0	2	08/19/87	
25 - DR/EA Unqualified Welders	1	0	0	0	0	0	0	0	0	1	08/31/87	
27 - DR/EA ANSI B31.1 / ASME III Subst	1	0	0	0	0	0	0	0	0	1	08/31/87	
28 - DR/EA Insp of Diesel Air Dryer 1A-1	1	0	0	0	0	0	0	0	0	1	08/19/87	
30 - DR/EA Review Quals Welder 6SSX	1	0	0	0	0	0	0	0	0	1	08/24/87	
33 - So Valve Rm Hanger at Beam W33X200	1	1	0	1	1	0	0	0	0	1	0	09/17/87
36 - DR/EA Arc Str Pressurizer Rel Tank	1	0	0	0	0	0	0	0	0	1	08/19/87	
* Subsubtotal *	14	1	0	1	1	0	0	0	0	1		
* Special												
206 - DR/EA Eval Insp of PDO's Reactr Bld	1	0	0	0	0	0	0	0	0	0	09/24/87	
211 - Welder Plate Test Quals	1	0	0	0	0	0	0	0	0	1	08/19/87	
217 - DR/EA PDO's pre 1/81 Corrective Act	1	0	0	0	0	0	0	0	0	0	09/24/87	
221 - DR/EA NCR 2375R Eval Sample Plan	1	0	0	0	0	0	0	0	0	1	09/02/87	
223 - DR/EA L-II Cert Reinsp Verification	1	0	0	0	0	0	0	0	0	1	08/31/87	

EPT 315 Status Report Summary

This report was a special case of EPT 215. It displays only the EXPANSION type groups, which were not included in report EPT-215.

- Duplicates were counted in totals.

EXPANSION EXAMINATION PACKAGES FOR DOE/WEP GROUP ACTIVITIES

EPT 315.R0 (Includes Duplicates)

Group		Min. Pkgs Reqd	Pkgs Prep-ared	Compo Acces-sible	nents insp-ected	EP's with DR's	DR's to TVA DNE	DR's to WEP SSEE	DR's Closed	EP's Closed	Group Closure Rev. #	Final Closure	Comment
** Category 570 Expansion													
* Special													
249 - Radiograph Examination	1	1765	1773	1767	1766	200	168	166	170	1767	0	09/04/87	
250 - EXP - Electrical Supports	1	78	79	78	78	34	34	33	34	78	0	09/04/87	
251 - EXP - Electrical Supports	1	30	32	30	30	14	12	11	14	30	0	09/04/87	
252 - Mechanical Equipment Supports	1	54	67	54	54	22	22	22	22	54	0	09/02/87	
253 - Review TVA Radiographic Film	1	105	107	106	105	40	37	34	40	106	0	09/04/87	
254 - Electrical Equipment Suprt Welds	1	64	75	64	64	49	47	45	48	64	0	09/23/87	
255 - Civil Welds (Pre 2/13/81)	1	9	9	10	9	10	9	2	10	10	0	/ /	FROM 'E'
256 - Civil Welds (Pre 2/13/81)	1	13	13	14	13	13	12	3	13	14	0	/ /	FROM 'E'
257 - Stainless Stl Liner Plate Welds	1	64	67	64	64	64	64	64	64	64	0	08/31/87	
258 - Interpret Radiographic Film	1	1334	1334	1335	1334	112	102	102	107	1335	0	09/04/87	
259 - Group H Expansion	1	0	0	0	0	0	0	0	0	0	0	09/03/87	
260 - Group D Expansion	1	30	31	30	30	16	15	15	16	30	0	09/04/87	
261 - Group 227 Expansions	1	10	12	10	10	6	6	6	6	10	0	09/04/87	
262 - Class I & II Small Bore ASME	1	86	97	86	86	4	4	0	4	86	0	09/28/87	
263 - GROUP E EXPANSION	1	31	42	31	30	22	22	22	22	30	0	/ /	
264 - ASME Class MC Welds	1	64	67	65	64	38	37	35	37	64	0	/ /	
265 - Group G Expansion	1	30	31	30	30	11	8	8	11	30	0	09/02/87	
266 - Special 254 Expansion	1	30	32	30	30	22	22	22	22	30	0	09/23/87	
* Subsubtotal *	18	3797	3868	3804	3797	677	621	590	640	3802			
** Subtotal **	18	3797	3868	3804	3797	677	621	590	640	3802			
*** Total ***	18	3797	3868	3804	3797	677	621	590	640	3802			

EPT 315 Status Report Summary

APPENDIX C

GLOSSARY OF DATA ELEMENTS FOR INSPECTION DATA BASE

APPENDIX C

ELEMENTS OF INSPECTION DATA BASE

Element	Name	Description
NN		Relative number of data element as it occurred in the data base.
	XXXXXXXXXX	Assigned name of the data element used by dBaseIII.
01	PACKAGE_N0	Ten character field, in the form of A-0001 or 202-0009, where A or 202 was the group designator.
02	REVISION	Revision number of this package. 800's = reopened packages. 900's = closed packages.
03	WELD_NO	Numeric 6 digit field with 2 decimal places in the form of 123.45.
04	ORG_GROUP	Indicated the original group assigned to the package: A - M = General Groups 1 - 199 = Specific Groups 200 - 399 = Special Groups
05	WELD_TEST	Indicated the type of Nondestructive examination performed: 'V' = Visual exam for ASME/ANSI Piping welds; Form WEP 302 was used in inspection. 'G' = Visual exam for NCIG-01 weld Form WEP 305 was used in inspection. 'R' = Radiographic Examination; Form WEP 311 was used. 'P' = Liquid Penetrant Examination. 'M' = Dry Magnetic Particle Exam. 'U' = Ultrasonic Thickness Measurement.
06	WOS_MISS	Form WEP 322 in the package (Weld Operation Sheet Review Checklist). 'T' = True, if WEP 322 Form was missing from the package. 'F' = False, if WEP 322 Form was included in the package, or was not required by the assessment plan.
07	PROC_DEV	Welding procedure indicated? (ASME) 'A' = Accepted. 'R' = Additional documentation was requested from TVA. 'X' = No further documentation was available.
08	WELDER_DEV	Welder indicated? (ASME) 'A' = Accepted. 'R' = Additional documentation was requested from TVA. 'X' = No further documentation was available.
09	FILLER_DEV	Filler metal type indicated? (ASME) 'A' = Accepted. 'R' = Additional documentation was requested from TVA. 'X' = No further documentation was available.

Element	Name	Description
10	NDENO_DEV	NDE report number indicated? (ASME) 'A' = Accepted. 'R' = Additional documentation was requested from TVA. 'X' = No further documentation was available.
11	WELDID_DEV	Welder ID marked on the weld joint? (For NCIG-01 welds only) 'A' = Accepted. 'R' = Additional documentation was requested from TVA. 'X' = No further documentation was available.
12	NDEVT_DEV	Were the welds visually inspected or was additional required NDE performed? (For NCIG-01 welds only). 'A' = Accepted. 'R' = Additional documentation was requested from TVA. 'X' = No further documentation was available.
13	SVS_WEP	Indicated if the SVS form was issued as a result of WEP, or if the date of the SVS form was issued after April 1986. 'Y' = True, it was issued after April 1986. 'N' = Not applicable or was before April 1986.
14	ISOK	This field was used to flag any deviant attributes or rejects; 'T' = True, no deviants in attributes or the NDE technique was accepted. 'F' = False, either there was a deviation in the attribute or this NDE technique was rejected.
15	WDR_REVIS	Indicated the revision number of the Weld Deviation Report.
16	TVA_PRIOR	Indicated if there was any TVA identification of deviation in the weld prior to WEP. 'T' = True, there was TVA resolution prior to WEP. 'F' = False, there was no prior TVA identification of resolutions to these deviant welds. 'N' = Not Applicable, no TVA prior resolution was required. If ISOK field is "true" (no deviants in this package), TVA PRIOR field would default to 'N'.
17	USFS	Indicated if this component was Unsuitable For Service (USFS) after enginnering analysis. 'T' = True, Not Suitable For Service. 'F' = False, Is Suitable For Service. 'N' = Not Applicable, if ISOK field is true (there re no deviations), USFS will default to 'N'. 'M' = Missing, the Enginnering Analysis for Suitable-For-Service is not completed.
18-51		ATTRIBUTES - The following 34 fields contained the attributes from the WEP forms 302, 305 and 311. The first 27 characteristics refer to "VISUAL" examination attributes, 28 TO 33 ARE "RADIOGRAPHIC"

Element	Name	Description
		examination attributes. The following codes apply universally to all of the attributes: 'A' = ACCEPTABLE. 'R' = REJECTED. 'T' = This attribute was rejected, but TVA had identified this deviation prior to WEP. 'S' = Attribute was rejected due to insufficient information to WEP, and then at a later date was corrected. 'N' = Not applicable, this attribute was not inspected.
18	CRACKS	
19	OVERLAP	
20	UNDERCUT	
21	LOFUSION	
22	INPENETRA	
23	SLAG	
24	POROSITY	
25	SPATTER	
26	ARCSTRIKES	
27	RIPPLES	
28	GROOVES	
29	RIDGES	
30	VALLEYS	
31	MINTHICK	
32	TAPER	
33	MAXOFFSET	
34	MAXREINFOR	
35	FSWELDSIZE	
36	WELDSIZE	
37	UNDERFILL	
38	PROFILES	

Element	Name	Description
39	WLENGTH	
40	SLAGSPAT	
41	MIS_WELD	Relevant data if the weld was missing.
42	MISCCONFIG	The weld was missing due to configuration.
43	ACCESSIBLE	Indicates the weld was completely or partially inaccessible. 'YES' indicated that the weld was accessible. 'NO' indicated that the weld was inaccessible.
44	WELDTYPE	Indicates if the weld was deviant in weld type. 'R' = Rejected; should have a WDR revision number. 'N' = Not applicable.
45	CONCAVITY	
46	CONVEXITY	
47	SHRINKAGE	
48	TUNGSTEN	
49	SURFACE	
50	BURNTHRU	
51	FILMART	
52	NDE_INDICA	Indicated the result of the magnetic particle examination and the Liquid penetrant test was: 'A' = Acceptable. 'R' = Round indication. 'L' = Linear indication.
53	RAD_TECH	Refered to the radiographic examination test technique coded: 'A' = Technique acceptable. 'R' = Technique rejected.

APPENDIX D

GLOSSARY OF DATA ELEMENTS FOR TRACKING DATA BASE

APPENDIX D

GLOSSARY OF DATA ELEMENTS FOR TRACKING DATA BASE

Data Elements of Tracking Data Base

Element	Name	Description
NN		Relative number of data element as it occurred in the data base.
	XXXXXXXXXX	Assigned name of the data element used by dBaseIII.
01	UNID	Unique identifier - Weld identification number.
02	POPNO	Population or group number.
03	TESTID	Examination process used on the component.
04	WKDNDATE	Date component walked down. Must be the first date entered. Unoffical weld map and Examination Package and Data Analysis (EPDA) has completed component selection, disk was copied into WTGTRAK and TVA used it to set up selection of documents to package together.
05	CLOSEDATE	Date examination package closed. EPDA was responsible for this. Document Control then notified EPT.
06	BEGPKGPREP	Date documents received from TVA for EG&G to begin Package prep. @ Must have field 04 unless it is a SPECIFIC group.
07	ACCESSIBLE	Yes/No - Component walked down and was found to be accessible. Gave credibility to COUNT for a package. Revisions were automatically set to YES. @ Must have field 04.
08	TAG_NUMBER	Number of tag hung on component when walked down. @ Must have field 04 and 07 = YES.
09	ENGR_REVW	Date deviation reviewed for prior acceptance of nonconformance. Not on status. @ Must have field 28.
10	DR_TO_TVA	Date deviation report was transmitted to TVA.
11	INSPDATE	Date component inspected. Results of inspection were documented. @ Must have field 30 & 25. The following codes were used on Examination Package Tracking (EPT) reports in the 'DATE' fields for recording purposes:
	11/11/11	Inspection was in progress, no problems.
	11/12/12	Found to be INACCESSIBLE during inspection.
	11/13/13	Component required additional preparation.
	11/14/14	Additional information was requested from EPDA.
	11/15/15	Additional information was requested from TVA.
	11/16/16	Additional information was requested from I/E.

Element	Name	Description
	11/17/17	Package complete - was being held in EPDA.
12	INSPCOMP	Date all inspection activities were complete. @ Must have field 11.
13	PRIORITY	Component priority. '1' = inspection information package only. '+' equals Critical Path, delaying something.
14	INSP_ID	Identification number of inspector; if more than one code was available, then each code was separated with a '/', i.e., 123/124/125. @ Must have field 11.
15	OEIN	Date deviation received in TVA Office of Engineering. @ Must have field 34 and field 09 must be greater than or equal field 10 and field 10 must be greater than the date 04/01/86.
16	OEOUT	Date deviation returned to WEP by TVA Office of Engineering.
17	ACCDTEGG	Date deviation report analysis was accepted by EG&G. @ Must have field 16.
18	CORRACTSTS	Corrective action status. @ Must have field 16 and 28, could not have field 17.
19	LSTRANSDTE	Date of last transaction for that package.
20	LOCATION	Description of where the component could be found in the plant.
21	COMMENT	Any comment related to the package, only one per package number was retained. If more than one comment applies, then it was abbreviated where possible but still remained within the twenty characters.
22	WKDNREADY	Date the walkdown package was ready for the inspectors. Date that the TVA prepared package was ready for EG&G to walkdown; first day in the life of an examination package.
23	ITEM	The number of the package within the group; i.e., 208-0021 where 0021 was the item number.
24	PACKAGE_NO	KEY element of the data file. Combination of the POPNO and ITEM data elements. This was the key index to the Tracking Data Base.
25	PREPCOMP	Date the component was prepared and ready for inspection. TVA input field. Data field "ACCESSIBLE" must be "YES" (all SPECIFICS were automatically defined as accessible.)
26	DOCPKGCOMP	Date the examination package was complete. @ Must have field 06.
27	COUNT	The method for counting items in the data base. A one (1) was assigned to each accessible component and stays with that component until declared inaccessible. Changes to a zero when a deviation was written. The count of a 'one' was assigned to the latest revision and the previous was changed to a

Element	Name	Description
		zero (0). Revisions were duplicate numbers of the package number with a revision number assigned to REV field.
28	DEVIATION	The reported condition of a component that was not in compliance with prescribed standards. Same contents as the "PACKAGE NO" field plus a revision number was added. @ Must have field 11. @ Must also have field 34.
29	SET	A method which separated the total program into reportable segments. Three sets with a number of groups assigned to each set (not used).
30	PKGREADY	Date package was logged into document control and was ready for inspection; package was not a valid "record" on the data base until this occurred. @ Must have field 26.
31	DISCIPLINE	The TVA organization and the location of the organization that performed SFS analysis of the deviation.
32	PREPSCHED	Date the component was scheduled to be prepared for inspection. TVA input element (not used).
33	UPDATE	A plus (+) symbol indicated that the package data had been changed in the current daily process. This was reset when the verification report was run.
34	WDR_REV	The revision number assigned to this deviation. When field 28 was created a zero was assigned as first entry into this field. Field 11 has the same date as this field.
35	DEVCLOSDTE	Date that the deviation was closed. @ Must have field 34; field 09 was greater than field 34 or field 17 was dated after field 16.
36	STATUS	The status of an examination package.
37	SCHEDULE	Priority of the group. Project scheduling updated this field.
38	GROUPID	Identifier for groups.
39	POPNAME	Combination of POPNO and a narrative description of the group.
40	SSEEREJTVA	Date SSEE returned SFS analysis to TVA for further review. @ Must have field 18.
41	SSEETVARSU	Date returned SFS resubmitted to SSEE for review. @ Must have 40.
42	PKGREV	Combination of data elements 24 and 34. Used as key to update summary statistics.
43	ADDUP	Assigned a '1' to every record. Used to do control calculations on reports.
44	SAMPREQD	For ITEM = 0000 in each group lists the number of samples that required inspection.

Element	Name	Description
45	CLASS	Identifed classes of welds.
46	TYPEPKG	Identifed a package type assigned, based upon the following codes: '00' = Original Package, '10' = Additional Package, '20' = Expansion Package, '80' = Independent Deviation Record not in WEP.