VOLUME 5 WELDING CATEGORY

SUBCATEGORY REPORT 50200 BELLEFONTE NUCLEAR PLANT

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BLN Site Specific Welding Subcategory Report

REPORT
TITLE:

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REPORT TYPE: Subcategory

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REASON FOR REVISION:

Editorial Revision

PREPARATION	
PREPARED BY:	
R. Dopielop SIGNATURE	12/15/87 DATE
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REVIEWS	·
PEER: J.E. Rose	12/17/07
· SIGNATURE ·	DATE
TAS: James E Warter HF SIGNATURE	
CONCURRENCES	
SRP: Aries	<u>12-21-4</u> <u>12-21-4</u> <u>12-28-87</u> SNATURE
APPROVED BY:	× ,

*SRP Secretary's signature denotes SRP concurrences are in files.

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Preface, Glossary, and List of Acronyms for ECTG Subcategory Reports

HISTORY OF REVISION

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NUMBER	PAGES REVISED	REASON FOR CURRENT REVISION			
_ 3	i	To clarify that one or more attachments will help the reader find where a particular concern is evaluated			
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Preface

This subcategory report is one of a series of reports prepared for the Employee Concerns Special Program (ECSP) of the Tennessee Valley Authority (TVA). The ECSP and the organization which carried out the program, the Employee Concerns Task Group (ECTG), were established by TVA's Manager of Nuclear Power to evaluate and report on those Office of Nuclear Power (ONP) employee concerns filed before February 1, 1986. Concerns filed after that date are handled by the ongoing ONP Employee Concerns Program (ECP).

The ECSP addressed over 5800 employee concerns. Each of the concerns was a formal, written description of a circumstance or circumstances that an employee thought was unsafe, unjust, inefficient, or inappropriate. The mission of the Employee Concerns Special Program was to thoroughly investigate all issues presented in the concerns and to report the results of those investigations in a form accessible to ONP employees, the NRC, and the general public. The results of these investigations are communicated by four levels of ECSP reports: element, subcategory, category, and final.

Element reports, the lowest reporting level, will be published only for those concerns directly affecting the restart of Sequoyah Nuclear Plant's reactor unit 2. An element consists of one or more closely related issues. An issue is a potential problem identified by ECTG during the evaluation process as having been raised in one or more concerns. For efficient handling, what appeared to be similar concerns were grouped into elements early in the program, but issue definitions emerged from the evaluation process itself. Consequently, some elements did include only one issue, but often the ECTG evaluation found more than one issue per element.

Subcategory reports summarize the evaluation of a number of elements. However, the subcategory report does more than collect element level evaluations. The subcategory level overview of element findings leads to an integration of information that cannot take place at the element level. This integration of information reveals the extent to which problems overlap more than one element and will therefore require corrective action for underlying causes not fully apparent at the element level.

To make the subcategory reports easier to understand, three items have been placed at the front of each report: a preface, a glossary of the terminology unique to ECSP reports, and a list of acronyms.

Additionally, at the end of each subcategory report will be a Subcategory Summary Table that includes the concern numbers; identifies other subcategories that share a concern; designates nuclear safety-related, safety significant, or non-safety related concerns; designates generic applicability; and briefly states each concern.

Either the Subcategory Summary Table or another attachment or a combination of the two will enable the reader to find the report section or sections in which the issue raised by the concern is evaluated.

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The subcategories are themselves summarized in a series of eight category reports. Each category report reviews the major findings and collective significance of the subcategory reports in one of the following areas:

- management and personnel relations
- industrial safety
- construction
- material control
- operations
- quality assurance/quality control
- welding
- engineering

A separate report on employee concerns dealing with specific contentions of intimidation, harassment, and wrongdoing will be released by the TVA Office of the Inspector General.

Just as the subcategory reports integrate the information collected at the element level, the category reports integrate the information assembled in all the subcategory reports within the category, addressing particularly the underlying causes of those problems that run across more than one subcategory.

A final report will integrate and assess the information collected by all of the lower level reports prepared for the ECSP; including the Inspector General's report.

For more detail on the methods by which ECTG employee concerns were evaluated and reported, consult the Tennessee Valley Authority Employee Concerns Task Group Program Manual. The Manual spells out the program's objectives, scope, organization, and responsibilities. It also specifies the procedures that were followed in the investigation, reporting, and closeout of the issues raised by employee concerns.

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ECSP GLOSSARY OF REPORT TERMS*

classification of evaluated issues the evaluation of an issue leads to one of the following determinations:

Class A: Issue cannot be verified as factual

- Class B: Issue is factually accurate, but what is described is not a problem (i.e., not a condition requiring corrective action)
- Class C: Issue is factual and identifies a problem, but corrective action for the problem was initiated before the evaluation of the issue was undertaken
- Class D: Issue is factual and presents a problem for which corrective action has been, or is being, taken as a result of an evaluation

Class E: A problem, requiring corrective action, which was not identified by an employee concern, but was revealed during the ECTG evaluation of an issue raised by an employee concern.

<u>collective significance</u> an analysis which determines the importance and consequences of the findings in a particular ECSP report by putting those findings in the proper perspective.

concern (see "employee concern")

<u>corrective action</u> steps taken to fix specific deficiencies or discrepancies revealed by a negative finding and, when necessary, to correct causes in order to prevent recurrence.

criterion (plural: criteria) a basis for defining a performance, behavior, or quality which ONP imposes on itself (see also "requirement").

<u>element or element report</u> an optional level of ECSP report, below the subcategory level, that deals with one or more issues.

<u>employee concern</u> a formal, written description of a circumstance or circumstances that an employee thinks unsafe, unjust, inefficient or inappropriate; usually documented on a K-form or a form equivalent to the K-form.

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- <u>evaluator(s)</u> the individual(s) assigned the responsibility to assess a specific grouping of employee concerns.
- <u>findings</u> includes both statements of fact and the judgments made about those facts during the evaluation process; negative findings require corrective action.
- <u>issue</u> a potential problem, as interpreted by the ECTG during the evaluation process, raised in one or more concerns.
- <u>K-form</u> (see "employee concern")
- <u>requirement</u> a standard of performance, behavior, or quality on which an evaluation judgment or decision may be based.

root cause the underlying reason for a problem.

*Terms essential to the program but which require detailed definition have been defined in the ECTG Procedure Hanual (e.g., generic, specific, nuclear safety-related, unreviewed safety-significant question).

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Acronyms

AI	Administrative Instruction											
AISC	American Institute of Steel Construction											
ALARA	As Low As Reasonably Achievable											
ANS	American Nuclear Society											
ANSI	American National Standards Institute											
ASHE	American Society of Mechanical Engineers											
ASTH	American Society for Testing and Materials											
AWS	American Welding Society											
BFN	Browns Ferry Nuclear Plant											
BLN	Bellefonte Nuclear Plant .											
CAQ	Condition Adverse to Quality											
CAR	Corrective Action Report											
CATD	Corrective Action Tracking Document											
CCTS	Corporate Commitment Tracking System											
CEG-H	Category Evaluation Group Head											
CFR	Code of Federal Regulations											
CI	Concerned Individual											
CMTR	Certified Material Test Report											
COC	Certificate of Conformance/Compliance											
DCR	Design Change Request											
DNC	Division of Nuclear Construction (see also NU CON)											

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DNE	Division of Nuclear Engineering
DNQA	Division of Nuclear Quality Assurance
DNT	Division of Nuclear Training
DOE	Department of Energy
DPO	Division Personnel Officer
DR	Discrepancy Report or Deviation Report
ECN	Engineering Change Notice
ECP .	Employee Concerns Program
ECP-SR	Employee Concerns Program-Site Representative
ECSP	Employee Concerns Special Program
ECTG	Employee Concerns Task Group
EEOC	Equal Employment Opportunity Commission
EQ	Environmental Qualification
EMRT	Emergency Medical Response Team
EN DES	Engineering Design
ERT	Employee Response Team or Emergency Response Team
FCR	Field Change Request
FSAR	Final Safety Analysis Report
FY	Fiscal Year
GET	General Employee Training
HCI	Hazard Control Instruction
HVAC	Heating, Ventilating, Air Conditioning
II	Installation Instruction
INPO	Institute of Nuclear Power Operations
IRN	Inspection Rejection Notice

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L/R	Labor Relations Staff
M&AI	Hodifications and Additions Instruction
MI	Maintenance Instruction
MSPB	Merit Systems Protection Board
HT	Magnetic Particle Testing
NCR	Nonconforming Condition Report
NDE	Nondestructive Examination
NPP	Nuclear Performance Plan
NPS	Non-plant Specific or Nuclear Procedures System
NQAM	Nuclear Quality Assurance Manual
NRC	Nuclear Regulatory Commission
NSB	Nuclear Services Branch
NSRS	Nuclear Safety Review Staff
NU CON	Division of Nuclear Construction (obsolete abbreviation, see DNC)
NUMARC	Nuclear Utility Management and Resources Committee
OSHA	Occupational Safety and Health Administration (or Act)
ONP	Óffice of Nuclear Power
OWCP	Office of Workers Compensation Program
PHR	Personal History Record
PT	Liquid Penetrant Testing
QA	Quality Assurance
QAP	Quality Assurance Procedures
QC	Quality Control
QCI	Quality Control Instruction

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	QCP	Quality Control Procedure
	QTC	Quality Technology Company
	RIF	Reduction in Force
	RT	Radiographic Testing
	SQN	Sequoyah Nuclear Plant
	SI	Surveillance Instruction
	SOP	Standard Operating Procedure
	SRP	Senior Review Panel
	SWEC `	Stone and Webster Engineering Corporation
	TAS	Technical Assistance Staff
	T&L	Trades and Labor
	TVA	Tennessee Valley Authority
	TVTLC	Tennessee Valley Trades and Labor Council
	UT	Ultrasonic Testing
	VT	Visual Testing
	WBECSP	Watts Bar Employee Concern Special Program
•	WBN	Watts Bar Nuclear Plant
	WR	Work Reguest or Work Rules
	WP	Workplans

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1.0 CHARACTERIZATION OF ISSUES

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- 3.0 ISSUES, FINDINGS, AND CONCLUSIONS
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 - 3.2 Inspection of Welds Through Carbo-Zinc Primer
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1.0 CHARACTERIZATION OF ISSUES

1.1 Introduction

The characterization of issues for this subcategory report are derived from 79 Employee Concerns. Of the 79 Employee Concerns, 19 were specific to BLN (53 specific to WBN, 3 specific to BFN, 3 specific to SQN, 1 non plant specific). The Employee Concerns were divided into 13 similar issues and were investigated by the Weld Project, Quality Technology Company (QTC) and/or the Nuclear Safety Review Staff (NSRS). Each of the 13 issues was addressed by a Weld Project Evaluation Report which will be provided IR4 to the USNRC as a portion of the Weld Project effort.

1.2 Description of Issues

1.2.1 Control of Welding Filler Material

1.2.2 Inspection of Welds Through Carbo-Zinc Primer

1.2.3 Welder Qualification Continuity

1.2.4 Inspection Tools

1.2.5 Inspector Qualification

1.2:6 Welder Training/Experience

1.2.7 Implementation of Quality Assurance Evaluation QAE-2

1.2.8 Welding Equipment And Bottled Gases

1.2.9 Structural Steel Preweld Inspections

1.2.10 Weld Quality

1.2.11 Weld Inspection Procedures

1.2.12 Weld Repairs

1.2.13 Adequacy of Procedures

2.0 METHODOLOGY

The procedure and specification histories of Bellefonte Nuclear Plant, from the beginning of construction to the present, were reviewed. These procedures and specifications were compared with the construction codes that were in effect during each phase of the procedure history. The

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Bellefonte Weld Project Phase I Report (draft) and the Weld Project Evaluation (draft) Reports for Sequoyah, Browns Ferry, and Watts Bar were reviewed. The expurgated text of the concerns was compared with the requirements defined in the construction codes and the commitments made in the Topical Report (TVA-TR-75-1A). A review was made of quality indicators such as the USNRC inspection reports and the TVA audit and deficiency reporting documents issued over the life of the plant. As appropriate to the issues, discussions were held with cognizant TVA Construction, Engineering, Quality, and Craft Supervisory personnel.

3.0 ISSUES, FINDINGS, AND CONCLUSIONS

3.1 Control of Welding Filler Material

The concerns stated that weld rods are not required to be kept in rod ovens after issue; questioned the quality of coated electrodes; questioned the adequacy of welding filler material control; that ASME deviations and violations for uncontrolled weld rod are reported on "non quality" inspection reports; and questioned the administrative practices for return of unused and waste welding filler material.

Review of the procedure history for weld filler material control at Bellefonte (BLN) revealed that all of the necessary moisture absorption controls for low hydrogen coated electrodes have been in place throughout the life of the plant. The issue of coated electrodes was only allowed from freshly opened hermetically sealed containers or holding ovens. By classification, Quality Control Procedure BNP-QCP-8.1 established maximum allowable atmospheric exposure times for coated electrodes. These exposure times were in accordance with The American Welding Society Structural Welding. Code, AWS D1.1.

In 1979, the Structural Welding Code was changed to allow alternative atmospheric exposure time periods for coated electrodes. These extended exposure periods could be used provided the user established the maximum atmospheric exposure time by performing qualification tests prescribed by AWS.

G-29M Process Specification 1.M.3.1, "Specification for Welding Materials Control," was revised in 1980 (revision 7) to incorporate the alternative rules of AWS D1.1-1979 and to provide the requirements for the extended atmospheric exposure test.

In mid 1980, the BLN procedure for control of welding filler materials was also revised to reflect changes in the 1979 edition of the Structural Welding Code.



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The former practice (prior to mid 1980) for controlling moisture absorption in E7018 electrodes was replaced with the new AWS rules which permitted TVA to extend the atmospheric exposure time after performing qualification tests prescribed by the structural code, AWS D1.1. The changes met all of the requirements of the AWS D1.1.

Portable rod ovens are used on a limited basis at BLN to protect certain high strength, low alloy electrodes. Use of the portable ovens is provided for in the TVA Process Specification for welding materials control. It is not, however, addressed by the implementing procedure. CATD 50201-BLN-01 was issued to recommend that the implementing procedure be revised to reflect actual practice.

Corrective Action Plan

Procedure BNP-QCP-8.1 will be revised to outline the conditions under which the use of cortate to outline will all of exception to the stated maximum performed issue for coated electrodes.

The issue involution the quality is control electrodes evolved from the operability problems with role electrodes. The problems were related to the fracility of the coatings causing the electric arc to "wander". Which made that the coatings causing the electric arc to "wander". Which made that the workpiece. Additionally, porosity may be associated with electrode coating problems, especially at the start of the word bead. In two instances, the electrodes were returned to the suppliers. In one case, testing showed that the electrodes, while requiring more care in the welding operation, were suitable for use. These electrodes were retained and used. The difficulty in operability did not result in hardware defects in the final welds. Additionally, these electrodes were purchased in accordance with the requirements of ASME Sections II and III, and met the code requirements.

Earlier revisions of the filler material control procedure were not as stringent in the control of waste material as the current procedure. These earlier revisions did, however, satisfy the ASME and AWS Code requirements. There was a short period in later 1979 and early 1980 when a general laxity on the part of the welders in attending to their filler material and waste was identified. There have been occasional isolated occurrences of failure to follow the control procedure. These problems were principally violations of construction practices and of a housekeeping nature, rather than violations of the codes.

Where problems have been identified, corrective and preventive actions were effectively implemented. Control of welding filler material at BLN meets the requirements of the ASME and the AWS Codes.

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The Welding Surveillance Checklist is used in part to report and resolve deviations in the control of welding filler material. The completed checklists are not routinely distributed to the Authorized Nuclear Inspector (ANI). The ANI has access to any of the various quality records initiated at BLN. Certain records are routinely provided to the ANI for his review, establishment of hold points, and in certain instances, his concurrence. With regard to ANI review and approval, the key element is whether or not a reported deficiency is ASME Code related.

The Welding Surveillance Checklists issued from 1975 through 1985 were reviewed. Where filler material control deviations were reported, they were general in nature. Examples are stub's laying around the work areas, damaged shipping containers, rod not in the immediate control of the welder, and general storage practices. These deviations gave no indication of incorrect, uncontrolled or defective material being used in ASME applications.

Quality Control Investigation Reports and Nonconforming Condition Reports were also reviewed. Where discrepancies relating to filler material used in ASME applications were reported, the dispositions were presented to the ANI for concurrence. Examples are incorrect filler material recorded on process documents, incorrect identification on containers for material used in ASME work, and discrepancies in certified mill test reports,

Review and discussion with cognizant TVA Welding and Anality Control personnel showed that, where appropriate, the ANI was involved in the resolution of reported problems with welding filler material control. Discussion with the Bellefonte Authorized Nuclear Inspector revealed that he is in agreement with the reporting methods described above. Further, the ANI stated that he is aware of the results of the surveillance and has had the opportunity to witness the surveillances being performed. He also, from time to time, reviews the surveillance reports. Thus, even where the program does not require ANI review or concurrence, he is aware of any problems relating to filler material control at BLN.

The administrative practices for return of unused and waste filler material were found to have no welding technical significance. Discussion with the Welding Quality Control and Welding Engineering Supervisors indicate that this issue has not been a problem at BLN. These concerns were originated at Watts Bar and applied to Bellefonte for evaluation for generic applicability. This part of the filler material control issue is generically evaluated in Management and Personnel Subcategory Report Number 70200, and is not addressed further by this report.

Complete details of the evaluation of this issue are discussed in Weld Project Evaluation Report WP-01-BLN.



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3.2 Inspection of Welds Through Carbo-Zinc Primer

The issue relating to the process specification allowing inspection of primed welds evolved from a major reinspection effort at WBN. While the specification in question was site unique to WBN, a similar effort did take place at Bellefonte.

Beginning in May 1980, a series of Nonconforming Condition Reports began a major reinspection of fillet welds for leg size and throat depth. In that these reinspections were for configurational attributes which would not be masked by the coatings, an engineering decision was made to perform the reinspections with the coatings intact. This type <u>reinspection</u> activity is not a violation of the Structural Welding Code.

The reason for the employee concerns relating to inspection of coated welds at BLN is the application of WBN concerns to other TVA nuclear sites for evaluation for generic implications. While certain reinspection of coated welds did occur at BLN, they were performed in accordance with the approved dispositions to Nonconforming Condition Reports, and were not the subject of any employee concerns initiated at BLN.

The American Welding Society Structural Welding Code, AWS D1.1-1974, paragraph 3.10.1 states in part "...welded joints shall not be painted until after the work has been completed and accepted". The provisions of AWS D1.1, Paragraph 3.10.1 are intended to prevent coating prior to inspection for weld quality, i.e., examination for discontinuities in the weld. Weld size and configuration, unlike discontinuities, are not masked by primer or paint.

TVA met the provisions of AWS D1.1, Paragraph 3.10.1 during the initial acceptance inspections. The limited reinspection of coated welds for size and/or configuration is within the authority of the Engineer and is not considered to be a departure from the requirements of the governing code. This may be evidenced by the current widespread use of Nuclear Construction Issues Group Standard NCIG-01, which provides for limited reinspection of coated welds.

Discussions with cognizant TVA Welding personnel indicated that these procedures were complied with in that first line acceptance inspections performed at Bellefonte were of non coated welds.

Complete details of the evaluation of this issue are discussed in Weld Project Evaluation Report WP-02-BLN.

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3.3 Welder Qualification Continuity

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The concerns implied that welders' qualification continuity was updated with inadequate or no evidence that the welder had used a welding process within the specified time frame; that personnel whose duties do not require welding continue to have their qualifications updated; that welders on restriction (not allowed to weld) kept their qualification continuity updated; that one welder could weld or complete another welder's test plate during qualification testing; and questioned the number of bend test specimens required by Muscle Shoals for qualification testing.

From the beginning of construction, Welding Engineers assigned to the Mechanical Engineering Unit (MEU) were responsible to verify quarterly that each welder had maintained his qualification by using a welding process for which he was qualified. This qualification was documented on a Welder Qualification Verification Card, which was maintained in the MEU files.

In January 1976, BLN changed the documentation of welder qualification continuity from the manual Welder Qualification Verification Card to a computerized system. This system was maintained by the Welding Engineering Unit, and permitted timely identification of any welder approaching a qualification continuity renewal date.

In June 1982, BLN included a verification by the Foreman that a weld process was used by the welder. This verification is documented on the Welding Material Requisition, which then becomes the basis for updating the computerized welder listing. Review of the historical file of deficiency reporting documents and USNRC Inspection and Enforcement (IE) Reports failed to identify any violations relative to this issue.

The Bellefonte implementing procedure for Welder Qualification parallels the requirements of ASME Section IX. The implementing procedure for ASME Section IX and AWS D1.1 specify that to be qualified, the individual's primary duty must be welding. The only requirement imposed by the codes for remaining qualified is the use of the process or processes within the specific time frames. Even though there is not a mandatory requirement, only personnel actively engaged in welding activities are qualified at Bellefonte. The qualifications of individuals in welder foremen positions are not updated even though provided for in the Bellefonte implementing procedure. , FL

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Neither ASME Section IX nor AWS D1.1 uses the term restriction when referring to welder qualification. The only requirements mandated by the codes relative to qualification continuity update or requalification are the use of the process or processes within the specified time frames and questionable performance. The Bellefonte implementing procedure for welder qualification mandates, in addition to the code requirements, that a welder's qualification is revoked when he/she violates the Quality Assurance Program. Reinstatement, to include retesting, is up to the discretion of the Welding Engineering Unit.

The only other instance where welders might be considered "restricted" from welding is when they have a personal injury or sickness that prevents them from physically performing the welding activity. These individuals are allowed to maintain their qualifications up to the time for qualification continuity update. At this time, if they have not returned to a welding status and used the process or processes, their qualifications are rescinded. These individuals must retest for reinstatement of their qualifications.

The test shop at Bellefonte is relatively small and arranged in such a manner that the Weld Test Supervisor or designated assistant always has observation and control of all activities during testing. Additionally, if two individuals are observed in the same test booth at any time or for any reason during testing, both individuals are immediately suspended from further testing and denied qualification.

In the 1974 Edition of ASME Section IX, paragraph QW-302.3 was omitted. The omission of QW-302.3 could lead to the interpretation that only two bend test were required. QW-302.3, which clearly defines the requirement for four bend test specimens to qualify to the 5G and 6G positions, was reinstated by the Errata to the 1974 Summer Addenda to ASME Section IX. Initial qualification of welders at Bellefonte did not begin until early 1975, therefore, the Bellefonte program was set up to the requirements of the 1974 Edition of ASME Section IX Summer Addenda. Additionally, Welding Engineering at Bellefonte does not certify welders transferred from other sites without reviewing their Performance Qualification Test Record (PQT). Those welders without a PQT-are tested prior to being issued a Bellefonte welder certification card.



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The implementing procedure for welder performance qualification requires the Welding Engineering Unit to maintain a file for qualification verification for all welders, but the procedure does not provide instructions for updating this file. The implementing procedure for weld filler material control provides instructions for completing the Weld Material Requisition, which is the basis for updating the welder qualification file, but does not provide the instructions for disposition of the form. Currently there are no guidelines in the text of either procedure that shows their respective relationship. As a program enhancement, CATD 50203-BLN-01 was issued to recommend that these procedures be revised to provide the instructions for updating the welder qualification file and to provide instructions for disposition of the Weld Material Requisition.

Complete details of the evaluation of this issue are discussed in Project Evaluation Report WP-03-BLA Weld Contet /or 10 to clarify the Prodedure QCP instructions for updating welder gualifications

3.4 Inspection Tools

The issue that inspectors at Bellefonte were not issued inspection tools until recently evolved from Watts Bar concerns applied to other TVA nuclear sites for generic applicability. This issue is partially factual at Bellefonte.

Discussion with cognizant TVA personnel revealed that locally fabricated tools, such as angle, bevel and gap gauges and commercially procured undercut gauges, six inch machinist scales, and flashlights were available at Bellefonte from the beginning of construction. Further discussion did indicate, however, that commercially procured fillet weld gauges were not available until early 1980 and that the six inch scale was the basic tool used to verify socket and fillet weld size. All inspection tools necessary to perform the required weld inspections were available.

In recent years, as construction has advanced and as the need for more precise verifications of weld attributes was identified through program improvements, more sophisticated inspection tools have been procured and provided to the welding units. More advanced tools such as commerically manufactured multiple purpose, hi-lo and bevel gauges have been purchased. This is not to imply that earlier tools issued were not adequate for performing the intended inspection activity.

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The inspection methodology before the 1980's was somewhat different from the post 1980 methodology. The post 1980 methodology is that every lineal increment of all weld segments must be at least the specified weld size. The pre 1980 methodology implied that the norm was to measure socket and fillet welds in three or four places along the length of the weld, especially the low areas, then accept or reject the weld. Even though this may not be an acceptable practice today, it was not unique to any one site, utility or contractor. Many utilities throughout the country underwent extensive socket and fillet weld reinspection programs in the early 1980's.

From 1980 to 1982 several Nonconforming Condition Reports were issued 1 at BLN to document undersized fillet and socket welds. Beginning in 1 1980, most utilities, including TVA, procured "GO NO-GO" type fillet IR4 quage and conducted massive reinspections of fillet and socket welds. The reinspection required exact measurement of the entire length of the weld.

The root cause for fillet and socket weld size was principally caused Ł by a change in methodology as explained above. The extensive IR4 reinspections which followed the change in measurement practices 1 may have been perceived as a result of failure to provide the E inspectors with adequate measuring devices. L

The reinspection program resulting from the NCRs not only included a measurement of the welds using fillet weld gauges, but also required detailed mapping of each weld. As evidenced by the results of the reinspection effort, practically all the welds rejected were of nominal size. These welds had small areas of undersize, which was not indicative of the entire weld, and areas that were oversized compensated for the undersized portions. As a result of this effort, a detailed design engineering analysis of each weld, to determine suitability for service, has required less than ten welds to be reworked out of the thousands of welds rejected.

Complete details of the evaluation of this issue are discussed in Weld Project Evaluation Report WP-04-BLN.

3.5 Inspector Qualification

The concerns questioned the adequacy of the training received by the welding inspector prior to 1981 and exceptions taken to ANSI N45.2.6, as specified in TVA's Topical Report (TVA-TR75-1A). The concerns stated that an inspector should be a welder in order to know what to look for in a good weld and that welding inspectors at Bellefonte do not appear to be knowledgeable about welding.

It is true that some welding inspectors were qualified with approximately two months on the job training at the beginning of construction. This, however, does not represent a problem.

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At the beginning of construction at Bellefonte, inspection personnel were members of the Mechanical Engineering Unit whose principal duties were performance of inspection and nondestructive examination. These inspections were performed to clearly defined acceptance criteria. Site certification was required for each procedure under which an inspection was performed. Inspection personnel received training under the direction of the responsible Engineering Unit Supervisor, and were tested by the Quality Assurance Engineering Unit.

Inspector qualification has been the subject of Engineering, Supervisory and USNRC attention throughout the history of the plant. TVA at Bellefonte paralleled the general industry practices in the development, improvement and refinement of the programs for training and qualification of welding inspectors. It is probable that major improvements made during 1981 were seen by some as the beginning of the TVA attention to inspector qualification. This would possibly lead to a conclusion that prior to 1981, inspectors were not trained or were inadequately trained. Clearly, this is not the case at Bellefonte Nuclear Plant.

It is important to note that the commitment made through the Quality Assurance Topical Report is to USNRC Regulatory Guide 1.58, Revision 1, rather than a direct commitment to ANSI N45.2.6.

The TVA program for certification of weld inspection and examination personnel, with the exceptions taken through the Quality Assurance Topical Report, are not a degradation of ANSI N45.2.6. These exceptions are provided for by USNRC Generic Letter 81-01, which requires either commitment to Regulatory Guide 1.58 or submittal of an alternate plan. Topical Report TVA-TR75-1A, which has been approved by the USNRC, satisfies the requirements of Generic Letter 81-01.

There is no code or regulatory requirement for a welding inspector to also be a welder. In the American Welding Society Certification Manual for Welding Inspectors, it is recognized that experience as a welder is of benefit to the inspector. It is, however, also stated that whether or not this is a requirement is the employer's option.

With regard to the concern which states that the welding inspectors at Bellefonte do not appear to be knowledgeable about welding, there is insufficient detail in the text of the concern to determine what the perceived problem is, i.e., what welding knowledge the inspector does not possess. The material issue then, must be whether or not the TVA welding inspector at BLN has sufficient welding related knowledge to adequately perform his duties. If the competence of the welding inspector is the material issue, the concern is not factual.

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The evaluation, including discussions with engineering and inspection personnel, review of the program, nonconformance history, and the USNRC inspection and enforcement history at Bellefonte clearly shows that the welding inspectors are adequately trained and tested. With one exception, no evidence was identified to suggest a problem with the competence of the welding inspectors at Bellefonte. This one exception involved a single inspector, and was identified and corrected through the ongoing site Quality Assurance Program.

Complete details of the evaluation of this issue are discussed in IR4 Project Weld Evaluation Report WP-06-BLN.

3.6 Welder Training/Experience

The concern stated that subjourneymen perform work for which they are not qualified (pipe fit-ups and welds) and questioned the TVA welder training program.

This concern was a Watts Bar concern applied to Bellefonte for evaluation for generic applicability. A review of the historical welder qualification records revealed that none of the individuals identified as subjourneymen, who had been employed at Bellefonte, were ever qualified as welders.

TVA utilization of subjourneymen is in accordance with the trade labor agreement and commensurate with management practices throughout the construction industry.

The TVA welder training program at BLN requires that the individuals who perform production welding be qualified in accordance with the requirements of ASME Section IX or AWS D1.1, as applicable. Additionally, these individuals are tested when referred to the weld test shop by craft supervision. This referral is based on the craft supervision's judgement that the individual has acquired the skills and ability necessary to satisfactorily complete the performance qualification and to produce sound welds.

Complete details of the evaluation of this issue are discussed in IR4 Weld Project Evaluation Report WP-07-BLN.

3.7 Implementation of Quality Assurance Evaluation No. QAE-2

The concern stated that the welding and NDE corrective action programs, as identified in Office of Engineering Design and Construction (OEDC) Quality Assurance Evaluation No. QAE-2, dated September 1980, may not have been implemented for Bellefonte as the same/uncorrected problems were found to exist years later, and may still exist today.

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QAE-2 did not identify welding and NDE corrective action, but identified recommendations for program improvement. This QA evaluation was conducted upon the request of the TVA Manager of Construction and the Manager of Engineering Design. The objectives of the review were to look at the adequacy and effectiveness of the welding and NDE programs and to report the findings of the review with the appropriate recommendations for improvement. During this review only one observation/deficiency was identified which specifically required corrective action. This deficiency was not issued with report QAE-2, but was identified as a significant deficiency by QA Audit Report BN-W-80-08. Additionally, many of the recommendations are administrative in nature or relate to management practices and have no technical welding related significance. These recommendations will not be addressed in this report.

All technically related welding recommendations of QAE-2 have been implemented in some form at Bellefonte or there were programs already in effect that preempted the necessity for implementation of the recommendations.

Complete details of the evaluation of this issue are discussed in Weld Project Evaluation Report WP-10-BLN.

3.8 Welding Equipment and Bottled Gases

The concerns stated that welding machines do not have suitable amperage settings for welding with 3/32 inch diameter electrodes which leads to porosity and pinholes; welding machines should have the remote switches to prevent tungsten inclusions; and the cleanliness/purity of bottled gases is questionable.

Bellefonte utilized three types of welding equipment, two of which (Lincoln Idealarc 300 and Miller Gold Star 300) have current ranges exceeding 300 amperes and have optional features such as the vernier type current adjustment. The other type of equipment used was the Hobart grid bank/multiple operator unit. These machines have a history of satisfactory performance throughout the industry. The Lincoln Idealarc TIG 300 and the Miller Gold Star 300 do have the remote switches for arc starting and current control adjustment. The Hobart machines used do not have these features. Tungsten inclusions are reduced significantly, however, by employing good welding technique and, if necessary, by using strike plates immediately outside the weld.

Comments from the Bellefonte Quality Assurance Unit (QAU) did indicate a concern relative to the TVA requirements for procurement of welding gases. Comments from the Welding Engineering Staff of the Office of Construction (OC) and a subsequent memorandum from the Chief, Quality Assurance, to the OC Bellefonte Project Manager resolved the issue.

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Bellefonte employed welding equipment fully capable of producing satisfactory weldments. Bottled gases are properly controlled and purchased in accordance with procurement requirements.

Complete details of the evaluation of this issue are discussed in Weld Project Evaluation Report WP-13-BLN.

3.9 Structural Steel Preweld Inspections

The concerns stated that allowing uncertified welder foremen to perform preweld inspections is in conflict with the TVA Quality Assurance Commitments, ANSI requirements and AWS D1.1 and that when a welder welds the wrong two sides of square tubing, he goes back and welds the other two sides, thus making an all around weld, which is not in accordance with the drawing.

AWS D1.1 allows preweld inspections to be conducted on a sampling basis. This is clarified in the Commentary to the 1986 Edition to AWS D1.1. As a result of a Quality Assurance audit finding, TVA reported the preweld inspection issue to the USNRC in accordance with 10 CFR 50.55(e).

In the final report to the NRC it was stated that the TVA was meeting the intent of ANSI N45.2.5 as individual requirements of the standard are applied depending upon the nature and scope of the work to be performed and the importance of the item or the service involved. The NRC approved the final report and closed the unresolved item.

One concern raised the issue that the 050 notes (General Notes to Drawing 47A-050) allow fillet welds to be 100% oversized and craft to determine the length. Therefore, when a drawing requires two sides of square tubing to be welded and the welder welds the wrong two, he then welds the other sides thus making a weld that is not per the drawing.

AWS D1.1 requires in part that the size and length of welds shall not be substantially in excess of design requirements nor the location of welds be changed without approval. The TVA General Construction Specification G-29C cites the same requirements for the installation of structural welds.

This concern was a Watts Bar concern evaluated at Bellefonte for generic implication. Discussion with TVA Engineering personnel revealed that the OSO notes are applicable to Watts Bar and are not used at Bellefonte. Further discussion with TVA Quality Control personnel at Bellefonte revealed that all welds not meeting the design drawing are reported in accordance with the Bellefonte Quality Assurance Program.

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No significant effect on hardware or the welding program at Bellefonte was identified. TVA rules for structural steel preweld inspections are in compliance with its Quality Assurance commitments, ANSI N45.2.5 and AWS D1.1. Extra welds are appropriately reported under the site Quality Assurance Program.

Complete details of the evaluation of this issue are discussed in Weld Project Evaluation Report WP-16-BLN.

3.10 Weld Quality

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The concerns stated that there are bad welds on hangers in the Essential Raw Cooling Water (ERCW) tunnel, cable trays and a duct support in the Control Building; questioned the grinding of welds; and raised the issue of excessive circumferential shrinkage in stainless steel butt joints.

Welds (ERCW tunnel hangers, cable trays and a duct support) not meeting acceptance standards were found in the areas identified by the concerned employees. All support welds, duct support welds and miscellaneous structural welds have been reinspected and reworked as required. This reinspection effort was accomplished in accordance with the dispositions of numerous nonconformances which were considered significant and reported to the USNRC in accordance with 10 CFR 50.55(e).

Grinding of welds is not a violation of codes, standards or BLN procedures. Rather, in many cases these standards require grinding to obtain suitable surfaces for the proper interpretation of the specified NDE and to eliminate or reduce surface imperfections.

The construction codes, specifications and procedures do not quantify an acceptance criteria for circumferential shrinkage in welded butt joints. Distortion, including shrinkage, is inherent in stainless steel weldments. Factors considered are material type and thickness, filler material size, heat input (amperage), and maximum interpass temperature. TVA has implemented detailed welding procedures to minimize distortion and warping when welding stainless steels.

Complete details of the evaluation of this issue are discussed in Weld Project Evaluation Report WP-34-BLN.

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3.11 Weld Inspection Procedures

The concerns questioned the deletion of welding and brazing inspection of safety related HVAC ductwork; the acceptance of previously rejected hanger welds by someone other than a supervisor; weld records reviewed by the ANI which had heat numbers marked "NA" and when checked later had heat numbers entered; and stated that an individual falsified containment wall weld records.

The inspection requirements for safety related ductwork were deleted from the Quality Assurance Program subsequent to 1981. This is a Watts Bar Concern, and is not factual at Bellefonte. Bellefonte has had an inspection program for safety related ductwork from the beginning of construction to the present time.

The weld inspection program at Bellefonte requires that rejectable items be documented, and reinspection is accomplished only after the corrective action has been provided. The reinspection may or may not be performed by an inspector at the same certification level as the inspector that previously rejected the item. This issue is a Watts Bar concern applied to other TVA sites for generic applicability.

Weld records reviewed by the ANI had heat numbers marked "NA" and when checked later the heat numbers had been entered. This issue has been closed by the Office of the Inspector General and will not be addressed by this report.

Two concerns stated that weld records on the containment wall had been falsified. This issue is factual and was originally reported as an allegation in 1980. TVA personnel at Bellefonte issued a Nonconformance Report relative to the issue and reported it as significant to the NRC under 10 CFR 50.55(e).

Complete details of the evaluation of this issue are discussed in Weld Project Evaluation Report WP-35-BLN.

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3.12 <u>Weld Repairs</u>

The concerns stated that TVA makes repairs which are not in accordance with the ASME Codes, such as overlays, patches and furmanite (viscous sealing compound) and a four inch stainless steel pipe in the Spent Fuel Cooling (NM) System was improperly repaired. The pipe was damaged while torch cutting a sleeve.

The issue relating to the use of overlays and patches, while factual, has no applicability to Bellefonte Nuclear Plant. These temporary repairs are service related, and are performed under approved programs at Browns Ferry and Sequoyah Nuclear Plants.

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That part of the concern relating to TVA making repairs using viscous sealing compounds is addressed by Operations Subcategory Report 30800, and is not considered further by this evaluation.

The concern which stated that a four inch stainless steel pipe was improperly repaired evolved from oxy-fuel cutting of a carbon steel pipe sleeve through which the subject stainless steel pipe passed.

This concern was investigated by the site Quality Control and Welding Engineering Units. The evaluation included chemical and magnetic tests of the pipe to check for the presence of weld metal and for residue from a flame cutting operation.

No evidence could be found indicating that a repair was made to the pipe identified by the concerned individual.

Complete details of the evaluation of this issue are discussed in Weld Project Evaluation Report WP-36-BLN.

3.13 Adequacy of Procedures

The concerns stated that prior to 1979 there was no specific inspection criteria for use by inspection personnel; that the visual examination procedure which covers ASME Section III is nonspecific; that NDE inspectors can only write a Notice of Inspection for inservice related defects and preservice defects can only be identified on a Maintenance Request; and an individual was told to start using a different heat treating process with no explanation.

The issue relating to the adequacy of the weld inspection procedures evolved from two employee concerns originated at Browns Ferry and Watts Bar. One of the concerned individuals believed that the problems were TVA wide.

Relative to Bellefonte Nuclear Plant, these concerns are not factual.

Quality Control Procedure BNP-QCP-7.5, "Visual Examination of Weld Joints," was issued in December, 1975. This procedure, with one exception, adequately provided all of the required inspection and acceptance criteria. Due to an omission in an upper tier document, the inspection procedure QCP-7.5 did not provide the required weld size for socket welded flanges. In May, 1980 a Nonconforming Condition Report was issued. The corrective and preventive actions mandated through NCR 1188 adequately resolved the procedural deficiency and any resultant hardware effects.



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> The issue involving the methods used by the ISI Inspectors to report inservice and preservice inspection findings originated at Browns Ferry and Sequoyah. These concerns are partially factual, in that the Notification of Indication is the specified form for reporting of indications found during nondestructive examination. This is in accordance with the TVA Nuclear Quality Assurance Manual.

> One concerned individual stated that he was told to start using a different heat treating process with no explanation. This issue had been previously investigated and resolved through a site implemented employee concerns program. The process in question was in accordance with the specification.

Complete details of the evaluation of this issue are discussed in IR4 Weld Project Evaluation Report WP-43-BLN. ł.

4.0 COLLECTIVE SIGNIFICANCE

Through the subcategory overview of the evaluation report findings and the 184 subsequent integration of information, no new significant items were identified.

The evaluation report investigations and the subcategory overview indicated IR4 that the procedures and the practices used at BLN were consistent with good practices used throughout the nuclear industry.

TVA's welding control practices were adequate and reflected common nuclear industry practices. Some problems were identified, as one would expect with the size of the operation and the time frame, and were addressed by the ongoing QA program and the Weld Project Evaluation Report **1**R4 Investigations.

5.0 CAUSE

The cause of a perceived problem or the cause of a problem which initiated a CATD is limited to the cause identified in the evaluation 1R4 report.

6.0 CORRECTIVE ACTION

No corrective action is specified as a result of this subcategory report. Corrective actions for problems or perceived problems are limited to the CATDs issued as a portion of the Weld Project Evaluation Reports. **IR4** Discussions of enhancements to the existing TVA system, other than the enhancements specified by CATDs 50201-BLN-01 and 50203-BLN-01 will be deferred to the category report. CATD 50201-BLN-01 was issued to recommend that the implementing procedure be revised to reflect actual



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TVA EMPLOYEE CONCERNS SPECIAL PROGRAM REPORT TYPE: Subcategory

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practice and CATD 50203-BLN-01 was issued to recommend that the implementing procedure for welder performance qualification and the implementing procedure for weld filler material control be revised to show their respective relationships.

7.0 ATTACHMENTS

A. Subcategory Summary Table

B. Summary of Issues

8.0 REFERENCE

A. Welding Project Evaluation Reports

IR4



REFERENCE - ECPS120J-ECPS121C FREQUENCY - REQUEST ONP - ISSS - RNM CATEGORY: NE NON QA/QC NELDING				EMPLOYI Employee conci	TENNESSEE VALLEY OFFICE OF NUCLE EE CONCERN PROGR ERN INFORMATION D201 CONTROL OF	RUN TIME - 11:45:02 RUN DATE - 12:45:02	
CONCERN NUMBER	CAT	SUB CAT	S H R PLT D LOC	1 REPORT APPL 2 SAF RELATED BF BL SQ NB	HISTORICAL REPORT	CDNCERN ORIGIN	CONCERN DESCRIPTION
BLN-86-015-00101	HE	50201	N BLN	1 H Y N N 2 HA SS NA NA		NSRS	DURING A CONTACT INTERVIEN, THE CI EXPRESSED HIS C ONCERN RELATIVE TO WELD ROD CONTROL. NELD RODS AR E LEFT IN ROD CANS IN A UNCONTROLLED AREA WHERE AN OTHER PERSON COULD PICK UP ANYONE'S RODS. NELD CE RTIFICATION CARDS ARE LEFT IN THE CANS OVERNIGHT. CURRENT PRACTICE VIOLATES PROCEDURES.
EX -35-039-00101 T50146 02	HE HE		S MBN S MBN	1 N N Y N 2 NA NA SR NA 1 Y N N N	HI-85-053-004	QTC	HBHP: THERE ARE NO PORTABLE OVENS FOR STORING HEL D ROD AFTER IT HAS BEEN ISSUED TO THE WELDER AND THE HELD ROD IS NOT ADEQUATELY ACCOUNTED FOR HHEN IT IS RETURNED, I.E. ROD STUBS AND UNUSED ROD. CO
! 03	HE	50201	S IIBH	2 SR HA HA HA 1 N Y H N 2 HA SR HA HA		1	NST. DEPT. CONCERN. CI HAS NO FURTHER INFORMATION NO FOLLOHUP REQUIRED. (SQN ISSUES ADDRESSED IN RPT MP-01-SQN R3)
ı 04	HE	50401	S HBN	1 II II II Y 2 IIA IIA IIA SR			•
IN -85-234-00101 T50027	NE	50301	S LIBH	1 N N Y N 2 NA NA SR NA	EX-85-021-001	QTC	HELD RODS ARE NOT REQUIRED TO BE KEPT IN ROD OVENS AFTER ISSURANCE TO STEAMFITTER HELDERS. THE ROD
U2	HE	50101	S NBN	1 Y N N N 2 SR NA NA NA			CAN BE KEPT UNHEATED FOR 8 HOURS AT A TIME IN A LE ATHER POUCH. (SQN ISSUES ADDRESSED IN RPT NP-01-SQ N R3)
03	HE	50201	S WBN	1 H Y H N 2 HA SR HA HA		•	•
04	HE	50401	S HBN	1 H H H Y 2 HA HA HA SR -		•	
IN -85-247-00101 T50022	HE	50312	S WBN	1 N N Y N 2 NA NA SR NA	IN-85-284-001	QTC	7018 RODS (PURCHASED) ARE OF POOR QUALITY. THIS CO NTRIBUTES TO POROSITY AND PINHOLES. (SQN ISSUES AD
02	ИЕ	50101	S HBN	1 Y N N N 2 SR NA NA NA			DRESSED IN RPT NP-12-SQN R2)
03	HE	50412	S IIBII	1 N N N Y 2 NA NA NA SR			
04	ЦЕ	50201	S HBH	1 N Y N N 2 NA SR NA NA		•	· · ·

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REFERENCE - ECPS120J-ECPS121C FREQUENCY - REQUEST DNP - ISSS - RIM CATEGORY: HE NON QA/QC HELDING				ENPLOY EMPLOYEE CONC	TENNESSEE VALLEY OFFICE OF NUCLE EE CONCERN PROGR ERN INFORMATION D201 CONTROL OF	RUN TIME - 11:45:02 RUN DATE - 12/17/87 RV/SUBCATEGORY	
CONCERN NUMBER	CAT	SUB CAT	S H R PLT D LOC	1 REPORT APPL 2 SAF RELATED BF BL SQ IIB	HISTORICAL REPORT	CONCERN ORIGIN	CONCERN DESCRIPTION
IN -85-352-00201 T50040	ИЕ	50301	s hbh	1 H H Y H 2 HA HA SR HA	EX-85-021-001	QTC	NO PORTABLE OVENS ARE USED ON WATTS BAR. HELD ROD CAN BE KEPT OUT OF OVEN FOR AN ENTIRE SHIFT AND R
02	ИЕ	50101	S WBN	1 Y N N N 2 SR NA NA NA		٩	ETURNED TO OVEN FOR LATER USE. (SQN ISSUES ADDRESS ED IN RPT WP-01-SQN R3)
03	HE	50Ž01	S WBN	1 N Y N N 2 NA SR NA NA			
04	HE	50401	S HBN	1 H H H Y 2 HA HA HA SR			
IN -85-424-00101 T50041	HE	50301	S HBN	1 N N Y N 2 Na Na Sr Na	EX-85-021-001	QTC	NO PORTABLE OVENS USED/REQUIRED ON MATTS BAR. THE ROD OFTEN COLLECTS MOISTURE AND SHOULD NOT BE USE D. (SQN ISSUES ADDRESSED IN MP-01-SQN R3)
I 02	HE	50101	S MBN	1 Y H H H 2 SR HA HA HA		÷	
03	ИЕ	50201	S HBN	1 N Y N N 2 NA SR NA NA		1	
04	ИE	50401	S MBN	1 H H H Y 2 HA HA HA SR			
IN -85-424-00401 T50040	ИЕ	50301	S WBN	1 N N Y N 2 NA NA SR NA	EX-85-021-001	QTC	QA TRAINING CLASS, 6-5-85, INFORMED CRAFT THAT STE AMFITTERS COULD HITHDRAN AND CONTROL HELD ROD IF T
02	HE	50101	S HBN	1 Y H H H 2 SR NA NA NA	-	1	HEY HAD A WELDER SIGNED WELD SLIP AND THE HEDERS C ARD. (SQN ISSUES ADDRESSED IN RPT WP-01-SQN R3)
03	HE	50201	S IIBN	1 N Y N N 2 NA SR NA NA		•	
	ПЕ	50401	S IIBN	1 H H H Y 2 HA HA HA SR			

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REFERENCE - ECPS120J-ECPS121C FREQUENCY - REQUEST ONP - ISSS - RIM CATEGORY: HE NON QA/QC HELDING					EMPLOYE Employee conce		RUN TIME - 11:45:02 1 (ECPS) RUN DATE - 12/17/87	
i	CONCERN NUMBER	CAT	SUB CAT	S H R PLT D LOC	1 REPORT APPL 2 SAF RELATED BF BL SQ HB 	HISTORICAL Report	! Concern Origin	CONCERN DESCRIPTION
ı	IN -85-424-00601 T50040	HE	50301	S HBN	1 N N Y N 2 Na na Sr Na	EX-85-021-001	qtc ⁱ	NO ACCDUNTABILITY OF HELD ROD DURING ISSUANCE OR R Eturn of unused rod and stubs. (SQN issues address
	02	WE	50101	S WBN	1 Y N N N 2 SR NA NA NA	1	t	ED IN RPT HP-01-SQN R3)
	03	NE	50201	S NBII	1 N Y N N 2 NA SR NA NA	*	i	
	04	HE	50401	s hbn	1 N N N Y 2 NA NA NA SR	•		
	IN -85-424-00701 T50102		50301	S NBN	1 N N Y N 2 Na Na Sr Na	EX-85-021-001	QTC	LACK OF HELD ROD CONTROL: HELDORS GET ADDITIONAL R OD FROM OTHER HELDORS RATHER THAN GOING BACK TO TH
	i 02	ИE	50101	s wbn	1 Y N N N 2 SR NA NA NA	-		E ROD ROOM FOR MORE. SITE POLICY ALLONS LEAVING R OD WITH OTHER NELDORS, OR LETTING SUB-JOURNEYMEN C HECK-OUT ROD AND RETURN ROD. (CAN ALSO LEAVE ROD
	. 03	NE	50201	S WBN	1 N Y N N 2 NA SR NA NA	-	!	IN TOOL BOXES). THE ROD ROOM DOES NOT COUNT ROD W HEN IT IS ISSUED, AND DOES NOT REQUIRE ACCOUNTING FOR ROD STUDS. OCCASSIONALLY, HELDORS ARE REPRIMA
	04	NE	50401	S WBN	1 N N N Y 2 NA NA NA SR	•	,	NDED FOR NOT TURNING IN ROD NITHDRAHAL SLIPS, EVEN THOUGH (SQN ISSUES ADDRESSED IN RPT NP-01-SQN R3)
	IN -85-426-00101 T50065	ИЕ	50301	s hbh	1 N N Y N 2 NA NA SR NA	EX-85-021-001	QTC.	PORTABLE OVENS ARE NOT REQUIRED. HELD ROD IS KEPT OUT OF OVEN FOR AN ENTIRE SHIFT. NO FOLLON-UP. (
	02	ИЕ	50101	S NBN	1 Y N N N 2 SR NA NA NA		-	SQN ISSUES ADDRESSED IN RPT NP-01-SQN R3)
	. 03	JIE	50201	S IIBN	1 H Y H H 2 HA SR HA HA	n	•	
-		HĘ	50401	S MBN	1 H H H Y 2 HA HA HA SR	-	ţ	

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FREQUENCY - REC ONP - ISSS - RHM	QUEST	-ECPS12		EMPLOYE	ENNESSEE VALLEY OFFICE OF NUCLE E CONCERN PROGR RN INFORMATION	RUN TIME - 11:45:02 (ECPS) RUN DATE - 12/17/87	
CATEGORY: HE NON	QA/QC	WELDIN	lG	SUBCATEGORY: 50	201 CONTROL OF	FILLER MATERIAL	
CONCERN NUMBER	CAT	SUB CAT	S H R PLT D LOC	1 REPORT APPL , 2 SAF RELATED ' BF BL SQ NB	HISTORICAL REPORT	CONCERN ORIGIN	CONCERN DESCRIPTION
IN -85-441-00301 T50040	ИЕ	50301	S HBN	1 N N Y N 2 NA NA SR NA	EX-85-021-001	QTC	NO PORTABLE OVENS ON WATTS BAR. THE ROD SOMETIMES COLLECTS MOISTURE BY THE END OF THE SHIFT AND CAN NOT BE USED. (SQN ISSUES ADDRESSED IN RPT WP-01-SQ N R3)
02	HE	50101	S HBN	1 Y N N N N 2 SR NA NA NA			
03	HE	50201	S IIBN	1 N Y N N 2 NA SR NA NA			
04	ИЕ	50401	S HBN	1 N N N Y 2 NA NA NA SR	•	•	
IN -85-453-00901 T50030	ИE	50301	S WBN	1 N N Y N 2 NA NA SR NA	EX-85-021-001	QTC	HELDERS FREQUENTLY GIVE WELD ROD TO OTHER WELDERS. (SQN ISSUES ADDRESSED IN RPT HP-01-SQN R3)
¢ 02	ИE	50101	S HBN	1 Y H H H 2 SR HA HA HA		1	· · · · ·
03	he	50201	S WBN	1 N Y N N 2 NA SR NA NA			•
04	ИE	50401	S NBN	1 N N N Y 2 Na na na Sr ,		 	
IN -85-454-00401 T50030	HE	50301	S HBN	1 N N Y N' 2 NA NA SR NA		QTC .	WELDERS FREQUENTLY GET ROD FROM EACH OTHER INSTEAD OF-HITHDRANING FOR ROD ROOM. (SQN ISSUES ADDRESSE
02	ЦЕ	50101	S HBN	1 Y N N N 2 SR NA NA NA			
• 03	ИE	50201	S HBN	1 N Y N N 2 NA SR NA NA			
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CONCERN NUMBER	CAT	SUB CAT	S H R PLT D LOC	1 REPORT APPL 2 SAF RELATED BF BL SQ VB	HISTORICAL Report	CDNCERN DRIGIN	CONCERN DESCRIPTION
IN -85-501-00101 T50031	HE	50319	S HBN	1 N N Y N [.] 2 Na na Sr na	IN-85-501-001	QTC	UNUSED BUNDLES OF WELD ROD FREQUENTLY FOUND IN TRA SH CANS I.E. TURBINE BLDG., 708', 729', AND 755' E
02	HE	50101	S IIBN	1 Y H H H 2 SR HA HA HA		:	LEVATIONS, UNIT #2 (15-20 RODS FOUND 6-7-85) (SQN ISSUES ADDRESSED IN RPT HP-19-SQN R1)
03	ИE	50201	S NBN	1 N Y N N 2 Na Sr na Na		ļ	•
04	IIE	50401	S HBN	1 N N N Y 2 Na na na sr		, I	•
IN -85-672-00301 T50207	MP	70202	s wbn	1 H H. H H 2 NA HA HA HA		QTC.	AT SHIFT END, WELD ROD SLIPS ARE TURNED IN. THE S LIPS ARE CHECKED THEN THROWN ANAY. IF THE ISSUE R
¢ 02	ИЕ	50301	S WBN	1 H H Y H 2 Ha Ha Sr Ha		i	OON DETERMINES AT A LATER DATE THAT A WELDER DID N OT CONFORM TO "TURN IN" PROCEDURES, IT IS HIS WORD AGAINST THEIRS AND HE GETS THE MARNING LETTER. T
03	HE	50101	S HBN	1 Y H H H 2 SR NA HA NA			HESE LETTERS HAVE BEEN ISSUED WITHOUT PROOF OF WRO NGDDING. CONSTRUCTION DEPT. CONCERN. (SQN ISSUES Addressed IN RPT WP-01-SQN R3)
04	HE	50201	S IIBN	1 N Y H H 2 Ha Sr Ha Ha		:	
05	ИE	50401	S HBN	1 H H H Y 2 HA HA HA SR			
IN -86-047-00101 T50110	ИЕ	50314	S WBN	1 H H Y H 2 HA HA SR NA		QTC:	A SYSTEM IS NEEDED THAT VERIFYS THAT THE NELDER DI D. RETURN THE UNUSED HELD ROD AND STUBS AND WILL PR
02	ИE	50101	S WBN	1 Y N N N 2 SR NA NA NA		:	OVIDE THE WELDER A RECEIPT SO THAT THE WELDER CAN PROVE HE DID RETURN THE MATERIAL IN CASE AN ERROR HAS MADE. CI HAS NO ADDITIONAL INFORMATION. CONS
03	he	50201	S HBN	1 N Y N N 2 NA SR NA NA			TRUCTION DEPARTMENT. (SQN ISSUES ADDRESSED IN RPT WP-14-SQN R1)
. 04	ИE	50401	S HBN	1 H N H Y 2 NA NA NA SR			

REFERENCE - ECPS120J-ECPS121C TENNESSEE VALLEY AUTHORITY PAGE 31 FREQUENCY - REQUEST OFFICE OF NUCLEAR POHER RUN TIME - 11:45:02 ONP - ISSS - RNM EMPLOYEE CONCERN PROGRAM SYSTEM (ECPS) RUN DATE - 12/17/87 EMPLOYEE CONCERN INFORMATION BY CATEGORY/SUBCATEGORY CATEGORY: HE NON QA/QC HELDING SUBCATEGORY: 50201 CONTROL OF WELDING FILLER MATERIAL S H **1** REPORT APPL 1 R PLT SUB **2 SAF RELATED** HISTORICAL CONCERI CONCERN NUMBER CAT CAT D LOC BF BL SQ HB REPORT ORIGIN CONCERN DESCRIPTION -- -- ------HI -85-053-00401 HE 50301 SHBN IN NY N HI-85-053-004 OTC HELD ROD CONTROL DOES NOT SATISFY CODE REQUIREMENT T50135 S. TVA ATTITUDE IS "ALL MATERIAL IS CODE MATERIAL ". CONSTRUCTION DEPT CONCERN. CI HAS NO FURTHER 2 HA NA SS NA HE 50101 S HBN 02 1 Y N N N INFORMATION. (SQN ISSUES ADDRESSED IN RPT HP-01-SQ 2 SS HA HA HA H R3) ı. 03 ИE 50201 S WBN **1 N Y N N** ċ. 2 HA SS HA HA 04 HE 50401 S HBN **1 N N N Y** 1 2 HA HA HA SS XX -85-068-00301 OTC WE 50201 N BLN 1 N Y N N **BELLEFONTE ASME DEVIATIONS/VIOLATIONS (UNCONTROLLE** T50140 D HELD ROD) ARE REPORTED ON NON-QI REPORTS, THERE 2 HA SR HA HA 1 FORE PROBLEMS DO NOT GET TO THE AUTHORIZED NUCLEAR INSPECTOR (ANI). DETAILS KNOWN TO GTC, WITHHELD DUE TO CONFIDENTIALITY. CONSTRUCTION DEPT. CONCER N. C/I HAS NO FURTHER INFORMATION. 1 XX -85-068-00601 HE 1 N N Y N 50301 S BLN QTC **BELLEFONTE - WELD ROD CONTROL DOES NOT SATISFY COD** T50138 E REQUIREMENTS. TVA ATTITUDE IS "ALL MATERIAL IS CODE MATERIAL". CONSTRUCTION DEPT. CONCERN. CI H 2 HA HA SS HA ÷ 02 HE 50201 S BLN 1 11 1 11 11 AS NO FURTHER INFORMATION. NO FOLLOW UP REQUIRED. 2 HA SS HA HA (SQN ISSUES ADDRESSED IN RPT HP-01-SQN R3)

19 CONCERNS FOR CATEGORY HE SUBCATEGORY 50201

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REFERENCE - ECF FREQUENCY - REC ONP - ISSS - RIM CATEGORY: NE NON	UEST	-ECPS12 HELDIN		EMPLOYI Employee conci	TENNESSEE VALLEY OFFICE OF NUCLE EE CONCERN PROGR ERN INFORMATION D202 INSPECTION	RUN TIME - 11:45:02 (ECPS) RUN DATE - 12/17/87	
CONCERN NUMBER	CAT	SUB CAT	S H R PLT D LOC	1 REPORT APPL 2 SAF RELATED BF BL SQ NB	HISTORICAL REPORT	CONCERN ORIGIN	CONCERN DESCRIPTION
IN -85-458-00101 T50105	НE	50102	S WBN	1 Y N N N 2 SS NA NA NA	IN-85-458-001	qtc !	TVA USED IMPROPER INSPECTION CRITERIA FOR AWS WELD S - MEHO FROM KNOXVILLE (POSSIBLY ENDES, 1980 OR 1
· 02	ИE	50202	S MBN	1 H Y H N 2 HA SS HA HA		:	981) ALLOWED INSPECTION THROUGH PAINT. INDIVIDUAL FROM KNOXVILLE (KNOWN) INVESTIGATED THIS, BUT RES ULTS ARE UNKNOWN. CI HAS NO MORE INFORMATION. (SQ N ISSUES ADDRESSED IN RPT NP-02-SQN R2)
03	he	50302	S WBN	1 H N Y H 2 NA NA SS NA			H 1990F9 MPRC93FP IH VII HI-05-34H VS)
- 04	he	50402	S WBN	1 H H H Y 2 HA NA HA SS		•	
IN -86-019-00101 T50219	НE	50102	S NBN	1 Y N N N 2 SR NA NA NA		QTC	CI IS CONCERNED THAT WELDS WERE ACCEPTED THROUGH C Arbo-Zinc. Inspectors here directed via memo to a CCEPT Helds through paint. CI could not provide a
t 02	HE	50202	S HBN	1 N Y N N 2 NA SR NA NA		į	NY ADDITIONAL INFORMATION. UNIT 1. CONSTRUCTION DEPT. CONCERN. (SQN ISSUES ADDRESSED IN RPT NP-02- SQN R2)
03	HE	50302	S MBN	1 N N Y N 2 Na na Sr Na		:	541 KZJ
04	ИE	50402	s hbn	1 N N N Y 2 NA NA NA SR	2 	ļ	
NS -85-001-00101 T50022	ИЕ	50102	S WBN	1 Y H H H 2 SR HA HA HA	NS-85-001-001	QTC.	HELDS (ANS) INSPECTED SUBSEQUENT TO PROTECTIVE COA TING (CARBOZINC PRIMER) APPLICATION; FINAL VISUAL
02	ИE	50202	S WBN	1 N Y N N 2 NA SR NA NA		;	HELD EXAMINATION OF STRUCTURAL HELDS IN CATEGORY I STRUCTURES, INCLUDING PIPE HANGERS, CABLE TRAY SU PPORTS AND DUCT SUPPORTS; UNIT 1 & 2 (SQN ISSUES A
03	ИE	50302	S WBN	1 N N Y N 2 NA NA SR NA	1		DDRESSED IN RPT NP-02-SQN R2)
- 04	NE	50402	S WBN	1 N N N Y 2 NA NA NA SR		!	

	REFERENCE - EC FREQUENCY - RE DNP - ISSS - RIM ATEGORY: NE NON	PS120J QUEST - QA/QC	-ECPS12 C HELDIN	21C {G	ENPLOY Employee conc Subcategory: 5	TENNESSEE VALLEY OFFICE OF NUCLE EE CONCERN PROGR ERN INFORMATION 0202 INSPECTION	Y PAGE - 33 RUN TIME - 11:45:02 RUN DATE - 12/17/87 RY/SUBCATEGORY THROUGH CARBO-ZINC PRIMER	
	CONCERN NUMBER	CAT	SUB CAT	S H R PLT D LOC	1 REPORT APPL 2 SAF RELATED BF. BL SQ HB	HISTORICAL Report	CONCERN ORIGIN	CONCERN DESCRIPTION
1	PH -85-040-00101 T50203	WE	50102	S MBN	1 Y N N N 2 SR NA NA NA	IN-85-458-001	QTC	QA HANGERS WERE FREQUENTLY PAINTED BEFORE THE WELD S WERE INSPECTED. AUX. BUILDING, REACTOR BUILDING
	02	ИЕ	50202	S HBN	1 N Y N N 2 NA SR NA NA			S MERE INSPECTED. AUX. BUILDING, REACTOR BUILDING #1, ELEV. 742'-O", & 745'-O". 1983. CONSTRUCTIO N DEPT. CONCERN. CI HAS NO FURTHER DETAILS. (SQN ISSUES ADDRESSED IN RPT MP-02-SQN R2)
	03	ИЕ	50302	S HBN	1 N N Y N 2 NA NA SR NA			. ,
	04	NE	50402	S IIBN	1 N N N Y 2 Na na na sr		•	
. 1	I -85-013-00301 T50114	HE	50102	S HBN	1 Y H H H 2 SS NA NA NA	' WI-85-013-003	० ७८	G29C (CONSTRUCTION SPECIFICATIONS)ALLOWED WELDS TO BE INSPECTED AFTER PAINTING FROM 1981 THROUGH THE
	02	HE	50202	S IIBN	1 N Y N N 2 NA SS NA NA			END OF THE WELDING SAMPLING PROGRAM. THIS IS IN VIOLATION OF AWS D1.1. CI HAS NO MORE INFORMATION . (NOTE: THIS ITEM IS CURRENTLY UNDER INVESTIGATI
	03	HE	50302	S WBN	1 H N Y H 2 NA NA SS NA		:	ON BY ERT. THE REVISION WAS MADE TO SEPARATE THE Original 003 Concern into tho distinct concerns.) (SQN ISSUES ADDRESSED IN RPT WP-02-SQN R2)
	04	NE	50402	S HBN	1 N N N Y 2 NA NA NA SS			•
I	II -85-030-00701 T50185	WE	50116	S WBN	1 Y N N N 2 SR NA NA NA		QTC	THE WBN FSAR COMMITS TVA TO THE REQUIREMENTS OF AN S-D.1.1 FOR STRUCTURAL NELDING. CONTRARY TO THESE
	02	NE	50102	S HBN	1 Y N N N 2 SR NA NA NA	٩		REQUIREMENTS, THE G-29C PROCESS SPECIFICATION WAS MODIFIED TO REFLECT LESS STRINGENT INSPECTION REQ UIREMENTS (E.G. VISUAL INSPECTION OF HELDS THROUGH
	03	HE	50216	S WBN	1 N Y N N 2 NA SR NA NA			PAINT (CARBO ZINC PRIMER) AND NO DOCUMENTED INSPE CTION BY CERTIFIED VISUAL INSPECTORS (FIT-UP, IN-P ROCESS) PRIOR TO FINAL INSPECTION.) CI HAS NO ADDI
	. 04	HE	50316	S HBN	1 II II Y II 2 IIA IIA SR IIA			TIONAL INFORMATION. NUC. POWER DEPT. CONCERN. (SQ N ISSUES ADDRESSED IN RPT NP-16-SQN R2)
	05	HE	50416	S NBN	1 N N N Y 2 NA NA NA SR			
	06	ИE	50202	S MBN	1 H Y H H 2 HA SR HA HA			

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HE 50402 SHBN 1 N N N Y 2 HA HA HA SR

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REFERENCE - ECP Frequency - Req ONP - ISSS - Rim Category: He Non	UEST	-ECPS12 HELDIN		EMPLOYE Employee conce	Y PAGE - 34 RUN TIME - 11:45:02 RUN DATE - 12/17/87 RY/SUBCATEGORY THROUGH CARBO-ZINC PRIMER		
CONCERN NUMBER		SUB CAT	S H R PLT D LOC	1 REPORT APPL 2 SAF RELATED BF BL SQ VB	HISTORICAL REPORT	CDNCERN DRIGIN	CONCERN DESCRIPTION
HI -85-030-00801 T50185	ИЕ	50319	S INBN	1 N N Y N 2 NA NA SR NA		QTC	THERE MAY HAVE BEEN THOUSANDS OF WELDS INSPECTED T HROUGH CARBD-ZINC PRIMER. HONEVER, TVA REPORTS IN
02	ИЕ	50102	S HBN	1 Y N N N 2 SR NA NA NA			DICATE THAT ONLY 100-150 NELDS NERE INSPECTED IN T HIS MANNER EVEN THOUGH THERE IS NO DOCUMENTATION I DENTIFYING WHICH NELDS WERE INSPECTED THROUGH CARB O-ZINC PRIMER. NUC. POWER CONCERN. CI HAS NO ADDI
03	WE	50202	S WBN	1 N Y N N 2 NA SR NA NA		:	TIONAL INFORMATION. (SQN ISSUES ADDRESSED IN RPT W P-19-SQN R1)
04	HE	50402	S HBN	1 N N N Y 2 NA NA NA SR		•	•
ИІ85-041-00601 Т50193	ИE	50102	S HBN	1 Y H H. H 2 SS HA NA HA	EX-85-052-005	QTC	ANS HELD INSPECTOR(S) (UNKNOHN) DID NOT UNDERSTAND The "5 mil" provision for inspection of coated (C Arbo-Zinc Primer) Helds as contained in revisions
1 02	ИЕ	50202	S MBN	1 H Y H H 2 HA SS HA HA		i T	DF SPECIFICATION G-29C, PROCEDURE QCP-4.13, AND ME Morandum Dated November 1981. Inspector(s) Referr ED TO CRITERIA AS "MILLIAMPS" AND THEREFORE COULD
03	HE	50302	S WBN	1 H N Y N 2 HA NA SS NA		ĺ	NOT HAVE IMPLEMENTED/INSPECTED FOR CONFORMANCE. C I HAS NO ADDITIONAL INFORMATION. NUC PONER DEPT. CONCERN. (SQN ISSUES ADDRESSED IN RPT MP-02-SQN R2
04 1	WE	50402	S WBN	1 N N N Y 2 NA NA NA SS)
HI ~85-041-00801 T50193	HE	50102	S WBN	1 Y N N N 2 SS NA NA NA	IN-85-458-001	QTC	PROCESS SPECIFICATION #3.C.5.4 OF G-29C PERMITTED INSPECTION OF ANS WELDS THROUGH COATING (CARBO-ZIN
02	ИЕ	50202	S NBN	1 N Y N N 2 NA SS NA NA			C PRIMER) FOR ELEVEN MONTHS AFTER ENGINEERING EVAL UATION/TEST SHONED THAT WELD QUALITY (POROSITY, CR ACKS, EIC) COULD NOT BE INSPECTED THROUGH PAINT.
03	HE	50302	S MBN	1 H N Y H 2 HA HA SS HA			NUC POLIER DEPT. CONCERN. CI HAS NO ADDITIONAL INF DRMATION. (SQN ISSUES ADDRESSED IN RPT MP-02-SQN R 2)
-	ИЕ	50402	S WBN	1 H H H Y 2 HA HA HA SS	-		

9 CONCERNS FOR CATEGORY HE SUBCATEGORY 50202

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REFERENCE - ECI Frequency - Red ONP - ISSS - Rim Category: Ne Non	QUEST	-ECPS12		EMPLOY Employee conc	TENNESSEE VALLEY OFFICE OF NUCLE EE CONCERN PROGR ERN INFORMATION 0203 NELDER QUA	RUN TIME - 11:45:02 (ECPS) RUN DATE - 12/17/87		
CONCERN NUMBER	CAT	SUB CAT	S H R PLT D LOC	1 REPORT APPL 2 SAF RELATED BF BL SQ HB	HISTORICAL Report	CONCERN ORIGIN	CONCERN DESCRIPTION	
EX -85-021-00201 T50069	ИЕ	50103	S NBN	1 Y H H H 2 SR HA HA HA	IN-85-352-001	QTC	THERE IS NO METHOD/OBJECTIVE EVIDENCE TO VERIFY TH AT A WELDER HAS USED A SPECIFIC PROCESS WHEN THEIR WELD CARDS ARE STAMPED/UP-DATED BY QC. NO FOLLON	
02	ИE	50203	S HBN	1 N Y N N 2 NA SR NA NA			NELD CARDS ARE STAMPED/UP-DATED BY QC. NO FOLLOH -UP REQUIRED - NO ADDITIONAL INFORMATION AVAILABLE . (SQN ISSUES ADDRESSED IN RPT HP-03-SQN R3)	
03	HE	50303	S HBN	1 H H Y H 2 HA HA SR HA				
04	HE	50403	s libn	1 H H H Y 2 HA HA HA SR		-	· ·	
IN -85-113-00301 T50020	WE	50203	S WBN	1 N Y N N 2 NA SR NA NA	IN-85-113-003.	QTC	MELDERS ONLY HAVE THEIR CERTIFICATION CARDS STAMPE D EVERY 90 DAYS. HELDERS ARE NOT REQUIRED TO BURN Rod and have IT inspected in order to maintain th	
t 02	ИЕ	50303	s hbn	1 N N Y N 2 NA NA SR NA		r	EIR CERTIFICATION. (SQN ISSUES ADDRESSED IN RPT NP -03-SQN R3)	
03	NE	50403	S WBN	1 N H H Y 2 NA NA NA SR		·		
IN -85-335-00201	IH	60400	S HBN	1 N N N Y 2 Na na na no	IN-85-335-002	QTC,	WELDERS ON "RESTRICTIONS" (NOT ALLOWED TO WELD) AR E TOLD TO KEEP THEIR CERTIFICATIONS UPDATED EVEN N	
02	ИЕ	50319	S HBN	1 N N Y N 2 NA NA SR NA		1	ITHOUT USING THE PROCESS OR TIME IN THE TEST SHOP. (NAMES ARE KNOHN) (SQN ISSUES ADDRESSED IN RPT H P-19-SQN R1)	
03	HE	50 <u>203</u>	S HBN	1 N Y N N 2 NA SR NA NA		•		
04	HE	50403	S HBN	1 H H H Y 2 HA HA HA SR			•	

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REFERENCE - ECF FREQUENCY - REC ONP - ISSS - RNM CATEGORY: NE NON	QUEST	-ECPS12		ENPLOY Employee conc	TENNESSEE VALLEY OFFICE OF NUCLE EE CONCERN PROGR ERN INFORMATION 0203 NELDER QUA	(ECPS) RUN TIME - 11:45:02 RUN DATE - 12/17/87	
CONCERN NUMBER	CAT	SUB CAT	S H R PLT D LOC	1 REPORT APPL 2 SAF RELATED BF BL SQ HB	HISTORICAL REPORT	CONCERN DRIGIN	CONCERN DESCRIPTION
IN -85-426-00201 T50065	HE	50103	S HBN	1 Y N N N 2 SR NA NA NA	IN-85-352-001	qtc	UPDATING OF WELDER CERTIFICATIONS IS INADEQUATE IN THAT A HELDER IS ONLY REQUIRED TO PRESENT THEIR C
02	HE	50203	S HBN	1 N Y N N 2 NA SR NA NA			ARD FOR UPDATING AND SOMETIMES IS ASKED TO RUN A B EAD- NEVER A COMPLETE HELD. NO FOLLOH-UP. (SQN IS SUES ADDRESSED IN RPT HP-03-SQN R3)
03	HE	50303	S IIBN	1 H H Y H 2 HA HA SR HA			
04	HE	50403	S HBN	1 N N N Y 2 NA NA NA SR	•		
IN -85-480-00401 T50031	WE	50103	S WBN	1 Y H H H 2 SR HA HA HA	11-85-770-002	QTC	WELDER CERTIFICATION UPDATE IS INADEQUATE. PERSON NEL MAY HORK IN A POSITION THAT DOES NOT REQUIRE A
I 02	не	50203	S HBN	1 H Y N H 2 HA SR HA HA			INY WELDING FOR 5-6 YEARS BUT CERTIFICATIONS ARE CO NTINUALLY UPDATED. WHEN THESE PERSONS RETURN TO M ELDING NO TESTS ARE CONDUCTED. THEY JUST RUN STRI
. 03	ИЕ	50303	S HBN	1 H H Y H 2 HA HA SR HA		ı	NGERS TO UPDATE CERTIFICATIONS. (SQN ISSUES ADDRES SED IN RPT HP-03-SQN R3)
04	ИЕ	50403	S MBN	1 H H H Y 2 HA HA NA SR			
IN -85-725-X1501 T50167	HE	50319	S WBN	1 II II Y N 2 IIA IIA SR IIA	IN-85-725-X15	QTC	THE CONTROL OF HELDER RECERTIFICATION TEST PLATES HAS INADEQUATE: TEST PLATES BEGUN BY ONE HELDER C
02	HE	50103	S HBN	1 Y II II II 2 SR NA NA NA			DULD HAVE BEEN COMPLETED BY ANOTHER HELDER. DETAI L KNOIN TO QTC-HITHELD TO MAINTAIN CONFIDENTIALITY , (SQN ISSUES ADDRESSED IN RPT NP-19-SQN R1)
03	ИE .	50203	S HBH	1 II Y H N 2 HA SR HA NA			
	HE	50403	S HBN	1 H H H Y 2 NA NA NA SR			



	REFERENCE - FREQUENCY - ONP - ISSS - R CATEGORY: HE N	REQU	UEST	ECPS12		01 Enployee Employee conceri	NNESSEE VALLEY FFICE OF NUCLE Concern Progr I Information 3 Helder Qua	(ECPS) RUN TIME - 11:45:02 RUN DATE - 12/17/87	
:	CONCERN NUMBE		CAT	SUB CAT	S H R PLT D LOC	1 REPORT APPL 2 SAF RELATED BF BL SQ HB	HISTORICAL REPORT	CONCERN ORIGIN	CONCERN DESCRIPTION
	IN -85-940-X04 T50258	01	HE	50203	S HBN	1 H - Y H H 2 HA SR HA HA		QTC.	UNTIL RECENTLY, A HELDER COULD HAVE HELDING CERTIF ICATIONS UPDATED BY MERELY HAVING THE CERTIFICATIO
		02	HE	50303	S IIBN	1 N N Y N 2 NA NA SR NA			N CARD INITIALED BY AN INSPECTOR. THIS PRACTICE M Ay not have assured that the update has based on o Bjective evidence of utilization of the required p
		03	HE	50403	S IIBN	1 N N N Y 2 NA NA NA SR			ROCESS WITHIN THE SPECIFIED TIME PERIOD. CONSTRUC TION DEPARTMENT CONCERN. CI HAS NO FURTHER INFORM ATION. (SQN ISSUES ADDRESSED IN RPT NP-03-SQN R3)
	JLH-85-002	01	HE	50124	s sqn	1 Y N H H 2 SS NA NA NA		OECP	THIS CONCERN WAS NOT DOCUMENTED PER SQA166 BUT HAS BEEN INCLUDED IN THE EMPLOYEE CONCERN LOG. HELDE
		02	WE	50203	S SQN	1 N Y N N 2 NA SS NA NA		·	RS FROM MUSCLE SHOALS MAY NOT HAVE RECEIVED THE AP PROPRIATE NUMBER OF BEND TESTS WHEN TAKING WELD QU ALIFICATION TESTS. (SQN ISSUES ADDRESSED IN RPT WP
	۱.	03	ИE	50324	s sqn	1 N N Y N 2 NA NA SS NA	-	• =	-24-SQII RO)
		04	HE	50424	s sqn	1 II II II Y 2 IIA IIA IIA SS		Ş	

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8 CONCERNS FOR CATEGORY HE SUBCATEGORY 50203

REFERENCE - ECP Frequency - Req ONP - ISSS - RHM Category: He Non	UEST	-ECPS12		0	NHESSEE VALLE FFICE OF NUCLI Concern Progi N Information 04 Inspection	RUN TIME - 11:45:02 RUN DATE - 12/17/87 RY/SUBCATEGORY	
CONCERN NUMBER	CAT	SUB CAT	S H R PLT D LOC	1 REPORT APPL 2 SAF RELATED BF BL SQ HB	HISTORICAL REPORT	CONCERN ORIGIN	CUNCERN DESCRIPTION
IN -35-007-00101 T50001	HE	50104	S MBN	1 Y H H H 2°SR HA HA HA		QTC	INSPECTION TOOLS FOR NELDING INSPECTORS WERE NEVER Issued. I.E. Fillet Neld Size Gages, Fit-UP Guag
02	HE	50204	S HBN	1 II Y N N 2 NA SR NA NA			ES, ETC. (SQN ISSUES AUDRESSED IN RPT HP-04-SQN R2)
03	ИЕ	50304	S WBN	1 N N Y N 2 NA NA SR'NA			•
[^] 04	ИЕ	50404	S WBN	1 N N N Y 2 NA NA NA SR		:	-
IN -85-134-00201 T50050	WE	50104	S WBN	1 Y N H H 2 SS HA HA HA	•	qтс	UNTIL RECENTLY (PAST 2 YEARS), TVA DID NOT PROVIDE _9C_INSPECTORS_WITH WELDING INSPECTION TOOLS. SOM
ı 02	HE	50204	S WBN	1 N Y N N 2 NA SS NA NA			E INSPECTORS PROVIDED THEIR OWN TOOLS BUT OTHERS D ID NOT. CI HAS PASSED AWAY, NO FURTHER DETAILS AV AILABLE, (SQN ISSUES ADDRESSED IN RPT NP-04-SQN R2
03	HE	50304	S WBN	1 N N Y N 2 NA NA SS NA		,)
_04	HE	50404	S NBN	1 H H H Y 2 HA HA HA SS			
IN -85-406-00301 T50013	HE	50104	S WBN	1 Y N N N 2 SS NA NA NA		QTC	PRIOR TO 1979, NO WELD INSPECTION TOOLS HERE ISSUE D TO INSPECTORS. (SQN ISSUES ADDRESSED IN RPT NP-0
02	ИЕ	50204	S HBN	1 N Y N N 2 NA SS NA NA		,	4-SQN R2)
03	WE	50304	S WBN	1 H H Y H . 2 HA HA SS HA .			

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50404 S HBN

3 CONCERNS FOR CATEGORY HE SUBCATEGORY 50204

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	UEST		-	EMPLOYE	ENNESSEE VALLEY OFFICE OF NUCLE E CONCERN PROGR RN INFORMATION 206 INSPECTOR	RUN TIME 11:45:02 (ECPS) RUN DATE - 12/17/87 RY/SUBCATEGORY	
CONCERN NUMBER	CAT	SUB CAT	S H R PLT D LOC	1 REPORT APPL 2 SAF RELATED BF BL SQ HB	HISTORICAL Report	CONCERN ORIGIN	CONCERN DESCRIPTION
IN -85-476-00402 T50037	ИE		S MBN	1.H Y H H 2 HA SR HA HA	EX-85-052-005	QTC	APPROX. 1980, TVA IMPLEMENTED A NELDING INSPECTORS TRAINING PROGRAM AND PEOPLE WITH A GROCERY CLERK BACKGROUND WERE INSPECTING WELDS WITHIN TWO WEEKS.
03	ИE	50106	S MBN	1 Y N N N 2 SR HA HA HA			(SQN ISSUES ADDRESSED IN RPT HP-06-SQN RO)
04	HE	50306	S WBN	1 N N Y N 2 NA NA SR NA			
05	WE	50406	s hbn	1 N N N Y 2 NA NA NA SR		:	
IN -85-981-00102 T50111	HE	50206	S WBN	1 H Y H N 2 HA SR HA HA	EX-85-052-005	QTC	WELDING INSPECTORS NERE INADEQUATELY TRAINED PIROR TO 1981, I.E., PERSONNEL WITH NO EXPERIENCE INVOL VING WELDING WERE SENT TO A THO HEEK TRAINING CLAS
t 03	HE	50106	S HBN	1 Y N N N 2 SR NA NA NA		-	S AND THEN FUNCTIONED AS A HELDING INSPECTOR. CI HAS NO MORE INFORMATION. NO FOLLOW UP REQUIRED. (Son Issues addressed in RPT WP-06-SQN RO)
04	HE	50306	S IIBN	1 H H Y H 2 HA HA SR HA			Sen ISBER Appleader In het in de Sen het
05	ИE	50406	S WBN	1 H H H Y 2 HA HA HA SR		. !	
HI ~85-041-00202 T50103	ИЕ	50206	S HBN	1 N Y N N 2 NA SS NA NA	EX-85-052-005	QTC	QUALIFICATION/TRAINING OF INSPECTORS FOR STRUCTURA L (ANS) HELD VISUAL EXAMINATION IS QUESTIONABLE; L Evel 11 Certification IS granted with only tho Mon
03	HE	50106	ร์ผอท	1 Y N N N 2 SS NA NA NA		۱ •	THS OF OJT, WHICH IS NOT DOCUMENTED; THE IUPICAL R EPORT HAS "BASTARDIZED" ANSI N45.2.6, REGARDING QU
. 04		50306	S' HBN	1 N N Y N 2 Na na Ss _. Na		Ì.	ALIFICATION OF INSPECTION/EXAMINATION PERSONNEL. CI HAS NO FURTHER INFORMATION. NO FOLLON UP REQUI RED. (SQN ISSUES ADDRESSED IN RPT WP-06-SQN RO)
- 05	NE	50406	S HBN	1 N N N Y 2 NA NA NA SS		:	

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TENNESSEE VALLEY AUTHORITY PAGE 40 REFERENCE - ECPS120J-ECPS121C OFFICE OF NUCLEAR POHER RUN TIME - 11:45:02 FREQUENCY - REQUEST EMPLOYEE CONCERN PROGRAM SYSTEM (ECPS) RUN DATE - 12/17/87 ONP - ISSS - RHM EMPLOYEE CONCERN INFORMATION BY CATEGORY/SUBCATEGORY SUBCATEGORY: 50206 INSPECTOR QUALIFICATION AT BLNP CATEGORY: HE NON QA/QC HELDING S Ĥ **1 REPORT APPL** HISTORICAL CONCERN SUB R PLT **2 SAF RELATED** REPORT ORIGIN CONCERN DESCRIPTION CONCERN NUMBER CAT CAT D LOC BF BL SQ HB __ __ __ QTC : CI EXPRESSED THAT WELDING INSPECTORS ARE NOT QUALI WI -85-081-00702 EX-85-052-005 HE 50206 S HBH **1 N Y N N** FIED FOR THE JOB. CI STATED THAT AN INSPECTOR NEE T50237. 2 HA SR HA HA DED TO BE A HELDER SO THE INSPECTOR HOULD KNON WHA T TO LOOK FOR IN A GOOD HELD. CI DECLINED TO PROV **IYNNN** 03 WE 50106 S HBN IDE ANY ADDITIONAL INFORMATION. CONSTRUCTION DEPA RTMENT CONCERN. NO FOLLOW UP REQUIRED. (SQN ISSUE 2 SR HA HA HA -S ADDRESSED IN RPT HP-06-SQH RO) 04 ИE 50306 S HBN ти и к и 2 HA HA SR HA 05 WE 50406 S HBN IN N N Y 1 · 2 HA HA HA SR

XX -85-107-00101 HE 50206 N BLN 1 N Y N N T50185 2 HA SR HA HA

5 CONCERNS FOR CATEGORY HE SUBCATEGORY 50206

QTC BELLEFONTE - WELDING INSPECTORS AT BELLEFONTE DO N DT APPEAR TO BE KNONLEDGEABLE ABOUT WELDING. CONS TRUCTION DEPT. CONCERN., CI HAS NO ADDITIONAL INFO MATION.

HI		انک سال	ana kan	I S. 15 Carlot Million Ray 12 Carlot and a second	37222333583383-22006223 3	aria 4.9.12 - 760 1.2	n na seneral de la companya de la co
REFERENCE – ECH FREQUENCY – REG ONP – ISSS – RIM CATEGORY: HE NON	QUEST	-ECPS12 HELDIN	1C G	T Employe Enployee conce Subcategory: 50	TENNESSEE VALLEY OFFICE OF NUCLE E CONCERN PROGR RN INFORMATION 207 WELDER TRA	Y PAGE - 41 RUN TIME - 11:45:02 RUN DATE - 12/17/87 RY/SUDCATEGORY ERIENCE AT BLNP	
CONCERN NUMBER	CAT	SUB CAT	S H R Plt D Loc	1 REPORT APPL 2 SAF RELATED BF BL SQ WB	HISTORICAL REPORT	CONCERN ORIGIN	CONCERN DESCRIPTION
EX -85-008-00101 T50051	HE	50107	S HBN	1 Y N N N 2 SR NA NA NA	EX-85-010-002	QTC	SUBJOURNEYMEN USED TO DO WORK THAT THEY'RE NOT QUA LIFIED TO DO: THEY NEEDN'T HAVE ANY SPECIFIC TRAI
. 02	ИЕ	50207	S "HBN	1 N Y N N 2 NA SR NA NA		•	NING, BUT DO WORK (EG PIPE FIT-UPS AND WELDS ON 1/ 4" LINES) NORMALLY DONE BY A JOURNEYMAN WITH 5 YEA RS MINIMUM EXPERIENCE. SUBJOURNEYMEN REQUIRE CLOS
03	HE	50307	S NBN	1 N N Y N 2 NA NA SR NA			ER TECHNICAL SUPERVISION THAN TVA PROVIDES. NHEN CRAFTS COMPLAIN, THEY ARE "CHEMED OUT" BEYOND ALL REASONABLE LIMITS. NO MORE DETAILS KNOWN. (SQN IS
04	HE	50407	s hbn	1 H H N Y 2 NA NA NA SR			SUES ADDRESSED IN RPT WP-07-SQN R1)
IN -85-706-00101 T50064	ИЕ	50107	S HBN	1 Y N N N 2 SR NA NA NA			WELDERS WHO WENT THROUGH TVA'S WELDER TRAINING PRO GRAM HAVE INSUFFICIENT TRAINING AND EXPERIENCE TO Handle all variables involved to perform adequate
I 02	HE	50207	s hbh	1 H Y H H 2 HA SR HA HA			HANDLE ALL VARIABLES INVOLVED TO THIS INADEQUACY HELDS FOR A NUCLEAR INSTALLATION. THIS INADEQUACY HAS CREATED A LOT OF RENORK. CI HAS NO MORE DETA ILS. (SQN ISSUES ADDRESSED IN RPT MP-07-SQN R1)
03	ИE	50307	S WBN	1 N N Y N 2 NA NA SR NA		•	115. (544 1550E5 ADDRESSED IN RET 10 "07 540 KT7
04	ИE	50407	S HBN	1 H H H Y 2 Ha Ha Ha Sr		i	-
IN -86-158-00601 T50180	WE	50314	S WBN	1 H H Y H 2 HA HA SR HA	۲.	QTC .	UNTIL 1973 TVA DID NOT LET THEIR APPRENTICESHIP PE OPLE HELD. DURING THAT YEAR, EVEN WITH THO OR THR EE MONTHS EXPERIENCE, AN APPRENTICE COULD TAKE THE
. 02	HE	50107	S HBN	1 Y N N N 2 SR NA NA NA			TEST, PASS, AND BE ABLE TO HELD IN THE FIELD. TH E SYSTEM HAS WORKED THAT WAY EVEN SINCE 1973. CON ST. DEPT. CONCERN. C/I HAS NO FURTHER INFORMATION
03	HE	50207	S HBN	1 H Y H H 2 HA SR HA HA			. (SQN ISSUES ADDRESSED IN RPT WP-14-SQN R1)
- 04	HE	50407	S HBN	1 N N N Y 2 NA NA NA SR			

REFERENCE - ECPS120J-ECPS121C FREQUENCY - REQUEST ONP - ISSS - RHM CATEGORY: WE NON QA/QC WELDING						TENNESSEE VALLEY AUTHORITY OFFICE OF NUCLEAR POHER EMPLOYEE CONCERN PROGRAM SYSTEM (ECPS) EMPLOYEE CONCERN INFORMATION BY CATEGORY/SUBCATEGORY SUBCATEGORY: 50207 NELDER TRAINING/EXPERIENCE AT BLNP						RUN TIME - 11:45:02 RUN DATE - 12/17/87 RUN DATE - 12/17/87
CONCERN NUMBER	CAT	SUB CAT		PLT LOC	,1 ,2	SA		ELA	PPL TED HB	HISTORICAL REPORT	CONCERN Origin	CONCERN DESCRIPTION
XX -85-045-00101 T50075	MP	71701	S	BLN	1 2	N Na	N NA	N NA	H NA		QTC	BELLEFONTE-TVÅ POLICY ALLONS FOR PERSONEL TO BE SE NT TO THE TEST SHOP AND IN A SHORT TIME BE CERTIFI ED AS AN ELECTRICAL HELDER. THESE NELDERS DO PASS
02	HE	50207	S	BLN			Y SR					A STRICT TEST BUT THE TEST DOES NOT TEST THEIR AB ILITY WHEN DEALING WITH ALL THE VARIABLES AN EXPER
03	ИЕ	50307	S	BLN	1 2	N NA	H HA	Y SR	N NA			IENCED HELDER CAN HANDLE. INSUFFICIENT HELDER TRA INING. (SQN ISSUES ADDRESSED IN RPT HP-07-SQN R1)

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4 CONCERNS FOR CATEGORY WE SUBCATEGORY 50207

:11

REFERENCE - ECPS120J Frequency - Request ONP - ISSS - RNM Category: He Non Qa/QC		TENNESSEE VALLEY AUTHORITY OFFICE OF NUCLEAR POHER EMPLOYEE CONCERN PROGRAM SYSTEM (ECPS) EMPLOYEE CONCERN INFORMATION BY CATEGORY/SUBCATEGORY SUBCATEGORY: 50210 INPLEMENTATION OF QAE-2 AT BLNP	PAGE - 43 RUN TIME - 11:45:02 RUN DATE - 12/17/87
CONCERN NUMBER CAT	S H SUB R PLT CAT D LOC	1 REPORT APPL 2 SAF RELATED HISTORICAL CONCERN BF BL SQ HB REPORT ORIGIN CONCER	N DESCRIPTION
XX -85-110-00101 ИЕ T50187	50210 H BLN	2 NA SR NA NA UATION NO. QAE-2, DATE VE BEEN INPLEMENTED FO Rected Problems Were F ND May Still Exist tod	D NDE PROGRAM CORRECTIVE ACT OEDC QUALITY ASSURANCE EVAL D SEPTEMBER 1980, MAY NOT HA R BELLEFONTE; THE SAME/UNCOR OUND TO EXIST YEARS LATER, A AY. CI HAS NO ADDITIONAL IN EPT CONCERN.

1 CONCERNS FOR CATEGORY HE SUBCATEGORY 50210

FREQUENCY - REQ ONP - ISSS - RWM	UEST	-ECPS12 HÉLDIN		O Employee Employee concer	NNESSEE VALLEY FFICE OF NUCLE CONCERN PROGR N INFORMATION 13 HELDING EQ	AR POWER Am System By Catego	RUN TIME - 11:45:02
CONCERN NUMBER	CAT	SUB CAT	S H R PLT D LOC	1 REPORT APPL 2 SAF RELATED , BF BL SQ NB	HISTORICAL REPORT	CONCERN Origin	CONCERN DESCRIPTION
IN -85-247-00201 750022 02 03 04	ne Ne Ne Ne	50213 50313	S HBH S HBH S HBH S HBH	1 Y N H H 2 SR HA HA HA 1 N Y H H 2 HA SR HA HA 1 H H Y H 2 HA HA SR HA 1 N H H Y H		QTC	HELDING MACHINES (MCKAY & HOBART) USED IN FIELD BY STEAM FITTERS HAVE 2 SETTINGS 50 & 100 AMPS BOTH OF MIICH ARE UNSUITABLE FOR MELDING MITH 3/32" ROD . THIS CONTRIBUTES TO POROSITY AND PINHOLES. (SQN ISSUES ADDRESSED IN RPT MP-13-SQN RO)
IN -85-303-00101 T50021 02 03	ие Ие Ие	50213 50313	S HBN S HBN S HBN S HBN	2 NA NA NA SR 1 Y H H H 2 SR NA NA NA 1 H Y H H 2 NA SR NA NA 1 N H Y H 2 NA NA SR NA 1 N H Y H 2 NA NA SR NA		QTC	ALL THE WELDING MACHINES SHOULD HAVE REMOTE SWITCH ES SO THAT THE TUNGSTEN TIP DOESN'T HAVE TO TOUCH THE BASE METAL TO START THE WELD. PRESENTLY THE N ON-HOBART WELDERS, WHEN USED, MAY CAUSE TUNGSTEN T O BE LEFT IN THE WELD. (SQN ISSUES ADDRESSED IN RP T WP-13-SQN RO)
XX -85-068-00801` T50138	ИE	50213	N BLN	1 H Y H H 2 HA SR HA HA	-	QTC	BELLEFONTE - CONCERNS OVER THE CLEANLINESS/PURITY OF BOTTLED GAS USED IN MELDING AND PNEUMATIC TESTI NG WERE EXPRESSED BY NRC INSPECTOR IN 1982-1983. NO CORRECTIVE ACTION IS KNOHN TO HAVE BEEN TAKEN. DETAILS KNOHN TO QTC, MITHELD DUE TO CONFIDENTIA LITY. CONSTRUCTION DEPT. CONCERN. CI HAS NO FURT HER INFORAMIION. NO FOLLON UP REQUIRED.

3 CONCERNS FOR CATEGORY WE SUBCATEGORY 50213

FREQUENCY - REC ONP - ISSS - RHM Category: He Non	QUEST	-ECPS12	,	O Employee Employee concer	ENNESSEE VALLEY DFFICE OF NUCLE/ CONCERN PROGRA NN INFORMATION 1 216 STRUCTURAL	AR PONER Am System By catego	RUN TIME - 11:45:02 RUN DATE - 12/17/87
CONCERN NUMBER	CAT	SUB CAT	S H R PLT D LOC	1 REPORT APPL 2 SAF RELATED BF BL SQ IIB	HISTORICAL REPORT	CONCERN ORIGIN	CONCERN DESCRIPTION
BEM-85-001-00101 T50227	HE	50116	S BLII	1 Y N N N 2 SR NA NA NA	,	QTC	BELLEFONTE - THE GENERAL CONST. SPEC. G-29C, PROCE SS SPEC. D.C.1.1 IS IN CONFLICT WITH THE TVA QUALI
02	ИE	50216	S BLN	1 N Y N N 2 NA SR NA NA			TY ASSURANCE COMMITMENTS AS STATED BY THE TVA TOPI CAL REPORT, TVA-TR75-1A, IN THAT PROCESS SPEC. 0.C 1.1, Section 6.0 Allows Uncertified Helder Foreme
03	HE	50316	S BLN	1 N N Y N 2 NA NA SR NA		Ŧ	N, NHO HAVE DIRECT RESPONSIBILITY FOR THE INSTALLA TION, TO PERFORM PREWELD INSPECTIONS. NUCLEAR PON ER CONCERN. CI HAS NO FURTHER INFORMATION. (SQN I
04	ИЕ	50416	S BLN	1 H H H Y 2 HA HA HA SR			SSUES ADDRESSED IN RPT WP-16-SQN R2)
BEM-85-001-00201 T50227	ИE	50116	S BLN	1 Y N H N 2 SR NA NA NA	•	QTC	BELLEFONTE - UNCERTIFIED WELDER FOREMEN ARE REQUIR ED BY TVA TO PERFORM PREWELD INSPECTIONS ON INSTAL LATIONS THEY ARE DIRECTLY RESPONSIBLE FOR WHICH IS
t 02	ИE	50216	S BLN	1 N Y N N 2 NA SR NA NA			A VOILATION OF ANSI REQUIREMENTS. NUCLEAR POWER CONCERN. CI HAS NO FURTHER INFORMATION. (SQN ISSU ES ADDRESSED IN RPT HP-16-SQN R2)
03	HE	50316	S BLN	1 N N Y H 2 NA NA SR NA			E2 ADAKE22EN TH KET HE-T0,24H KET
04	HE	50416	S BLN	1 II II II Y 2 IIA IIA IIA SR			· •

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BFM-85-001-00101

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50216 S BLN

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50416 S BLN

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2 SR HA HA HA

1 H Y H H 2 HA SR HA HA

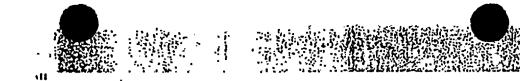
1 N N Y N 2 NA NA SR NA

1 N N H Y 2 NA NA NA SR

BELLEFONTE - THE GENERAL CONST. SPEC. G-29C, PROCE SS SPEC.O.C.1.1 IS IN CONFLICT WITH THE TVA QUALIT Y ASSURANCE COMMITMENTS AS STATED BY THE TVA TOPIC AL REPORT, TVA-TR75-1A, IN THAT PROCESS SPEC. O.C. 1.1, SECTION 6.0 ALLONS UNCERTIFIED WELDER FORMEN, WHO HAVE DIRECT RESPONSIBILITY FOR THE INSTALLATIO N, TO PERFORM PREHELD INSPECTIONS. HUCLEAR POHER CONCERN. CI HAS NO FURTHER INFORMATION. (SQN ISSU ES ADDRESSED IN RPT HP-16-SQN R2) QTC

REFERENCE – ECP Frequency – Req onp – ISSS – Rim Category: He Non	S120J NEST QA/QC	-ECPS12	21C	T Employe Employee conce Subcategory: 50	TENNESSEE VALLEY OFFICE OF NUCLE E CONCERN PROGE RN INFORMATION 0216 STRUCTURAL	AUTHORIT EAR POHER RAM SYSTEM By Catego Steel Pr	Y PAGE - 46 RUN TIME - 11:45:02 RUN DATE - 12/17/87 RUN DATE - 12/17/87 RUN DATE - 12/17/87 RUN DATE - 12/17/87
CONCERN NUMBER		SUB	S H R PLT D LOC	1 REPORT APPL 2 SAF RELATED BF BL SQ NB	HISTORICAL REPORT	CDNCERN ORIGIN	CONCERN DESCRIPTION
BFM-85-001-00201 T50221 02	ИЕ	50216		1 Y H H H 2 SR HA HA HA 1 H Y N H 2 HA SR HA HA		QTC	BROHN'S FERRY - UNCERTIFIED HELDER FOREMEN ARE REQ UIRED BY TVA TO PERFORM PRE-HELD INSPECTIONS ON IN STALLATIONS THEY ARE DIRECTLY RESPONSIBLE FOR HHIC H IS A VIOLATION OF ANSI REQUIREMENTS. NUCLEAR PO HER CONCERN. CI HAS NO FURTHER INFORMATION. (SQN ISSUES ADDRESSED IN RPT WP-16-SQN R2)
03				1 N N Y N 2 NA NA SR NA 1 N N N Y 2 NA NA NA SR			•
IN -85-026-00101 T50002 1 02		50416	S HBH S HBN	1 N Y N H 2 NA SR NA NA 1 N N N Y 2 NA NA NA SR	1-85-108-WBN ,	QTC	RESPONSIBILITY FOR FITUP INSPECTIONS OF WELDS ON S TRUCTURAL AND MISCELLANEOUS STEEL AS WELL AS PIPE RUPTURE RESTRAINT DEVICES WAS TAKEN FROM CIVIL QUA LITY CONTROL AND IS NON BEING HANDLED BY CRAFT FOR EMEN. THERE HAVE BEEN NUMEROUS INSTANCES OF PAST INSPECTIONS WITH INADEQUATE FITUPS.
۰ ۲	WE	50316	ร หอก	1 H Y H H 2 HA SR HA HA 1 H H Y H 2 HA HA SR HA 1 H H H Y 2 HA HA SR SR	I-85-444-WBN	QTC	*WELD FIT-UP INSPECTION WHICH WERE PERFORMED BY QC DURING 1978-1980 ON DUCT SUPPORTS IN REACTOR BUIL DINGS #1 AND 2 ARE HOT BEING PERFORMED ON DUCT SUP PORTS PRESENTLY BEING INSTALLED IN REACTOR BLDG. # 2. CI QUESTIONS WHY THESE FIT-UP INSPECTIONS WERE REQUIRED DURING 1978-1980 AND NOT REQUIRED AT PRE SENT TIME. CONSTR. DEPT. CONCERN. FURTHER INFORM ATION AVAILABLE, WITHHELD DUE TO CONFIDENTIALITY. NO FOLLOWUP REQUIRED. (SQN ISSUES ADDRESSED IN RP T HP-16-SQN R2)
IN -85-682-00201 T50116 02				1 N Y N N 2 NA SR NA NA 1 N N N Y 2 NA NA NA SR		QTC	AWS WELD INSPECTION METHOD IS QUESTIONABLE. EXAMP LE: AHS WELDS ARE INSPECTED FOR VISUAL FINAL APPEA RANCE ONLY (REF: QCP 4.13 VTC). NO FILUP OR FULL PENETRATION INSPECTIONIS PERFORMED OTHER THAN BY T HE CRAFT. EXAMPLE: 050 NOTES ALLOW 100% OVER ON A LL FILLET WELDS AND LENGTH IS TO BE DETERMINED BY WELDER. CONSEQUENTLY WHEN DRAWING REQUIRES 2 SIDE S OF SQUARE TUBING TO BE HELDED AND HELDER HELDS T HE HRONG 2 SIDES, HE GOES BACK AND HELDS THE OTHER 2 SIDES THUS MAKING AN ALL AROUND HELD WHICH IS N

III AND							
REFERENCE - ECH FREQUENCY - REC ONP - ISSS - RHM Category: He Non	ILCCT	-ECPS12			ENNESSEE VALLEY OFFICE OF NUCLI E CONCERN PROGI RN INFORMATION 216 STRUCTURAN		
CONCERN HUMBER	CAT	SUB CAT	S H R PLT D LOC	1 REPORT APPL 2 SAF RELATED BF BL SQ HB	HISTORICAL Report	CONCERN ORIGIN	CONCERN DESCRIPTION
WBM-85-001-00102 T50227	WE	50116	S WBN	1 Y N N N 2 SR NA NA NA		QTC	NATTS BAR - THE GENERAL CONST. SPEC. G-29C, PROCES S SPEC. 0.C.1.1 IS IN CONFLICT WITH THE TVA QUALIT
03	HE	50216	S NBN	1 N Y ·N N 2 NA SR NA NA			Y ASSURANCE COMMITMENTS AS STATED BY THE TVA TOPIC AL REPORT, TVA-TR75-1A, IN THAT PROCESS SPEC. 0.C. 1.1, Section 6.0 Allohs Uncertified Nelder Foremen
04	HE	50316	S WBN	1 N N Y N 2 NA NA SR NA		•	, WHO HAVE DIRECT RESPONSIBILITY FOR THE INSTALLAT ION, TO PERFORM PREMELD INSPECTIONS. NUCLEAR POME R CONCERN. CI HAS NO FURTHER INFORMATION. (SQN IS
05	ИЕ	50416	S WBN	1 N N N Y 2 NA NA NA SR			SUES ADDRESSED IN RPT WP-16-SQN R2)
HBM-85-001-00201 T50227	ИЕ	50116	s sqii	1 Y N N N 2 SR NA NA NA		QTC	SEQUOYAH - UNCERTIFIED WELDER FOREMEN ARE REQUIRED by tva to perform preneld inspections on installa tions they are directly responsible for which is a
ı 02	HE	50216	s sqn	1 N Y N N 2 NA SR NA NA		•	VIOLATION OF ANSI REQUIREMENTS. NUCLEAR PONER CO NCERN. CI HAS NO FURTHER INFORMATION. (TRANSFERRE
03	ИЕ	50316	s sqn	1 N N Y N 2 NA NA SR NA		•	D TO HBM-85-001-003, CONCERN HAS ADDRESSED BY HELD ING CATEGORY BEFORE TRANSFER HAS DOCUMENTED, AND H ILL NOT BE INPUT TO GN CATEGORY, SQN ISSUES ADDRES
. 04	ИЕ	50416	S SQN	1 N N N Y 2 Na Na Na Sr			SED IN RPT WP-16-SQN R2)
HI -85-030-00701 T50185	ИЕ	50116	S HBN	1 Y N N N 2 SR NA NA NA		QTC	THE NBN FSAR COMMITS TVA TO THE REQUIREMENTS OF AW S D.1.1 FOR STRUCTURAL MELDING. CONTRARY TO THESE
02	ИЕ	50102	s hbh	1 Y H H H N 2 SR HA HA HA	-	·	S D.1.1 FOR STRUCTURAL MELDING. CONTRARY TO THESE REQUIREMENTS, THE G-29C PROCESS SPECIFICATION WAS MODIFIED TO REFLECT LESS STRINGENT INSPECTION REQ UIREMENTS (E.G. VISUAL INSPECTION OF WELDS THROUGH
03	ИE	50216	S HBN	1 N Y N N 2 NA SR NA NA			UIREMENTS (E.G. VISUAL INSPECTION OF HELDS THROUGH PAINT (CARBO ZINC PRIMER) AND NO DOCUMENTED INSPE CTION BY CERTIFIED VISUAL INSPECTORS (FIT-UP, IN-F ROCESS) PRIOR TO FINAL INSPECTION.) CI HAS NO ADD
04	HE	50316	S HBH	1 N N Y N 2 NA NA SR NA	_	z	TIONAL INFORMATION. NUC. POHER DEPT. CONCERN. (SQ N ISSUES ADDRESSED IN RPT NP-16-SQN R2)
- 05	ИE	50416	S HBN	1 N N N Y 2 NA NA NA SR	•		
06	ИЕ	50202	S HBII	1 H Y H H 2 HA SR HA HA			
08	WE	50402	S HBN	1 H N N Y 2 HA HA HA SR			



10 CONCERNS FOR CATEGORY HE SUBCATEGORY 50216

	NA	\$ •					
REFERENCE - ECH Frequency - Rec ONP - ISSS - Rim Category: He Non	QUEST	-ECPS12 Heldin	•	EMPLOYE Employee conce	TENNESSEE VALLEY Office of Nucle E Concern Progr RN Information 0234 Held Quali	AR POHER An System By Catego	RUN TIME - 11:45:02 1 (ECPS) RUN DATE - 12/17/87 DRY/SUBCATEGORY
CONCERN NUMBER	CAT	SUB CAT	S H R PLT D LOC	1 REPORT APPL 2 SAF RELATED BF BL SQ IIB	HISTORICAL REPORT	CONCERN ORIGIN	CONCERN DESCRIPTION
BNPQCP10.35-1201	HE	50234	N BLN	1 N Y N N 2 NA SS NA NA		OECP	CABLE TRAYS IN CONTROL BUILDING HAVE WELDS BELIEVE D to be of Lon quality el 629 C-8 to C-10.
IN -85-282-00202 T50014	HE		S HBN	1 Y H H H 2 Sr Na Na Na	IN-85-282-002	QTC'	UNTIL RECENTLY, TVA WELD INSPECTORS REQUIRED ALL P IPE NELDS TO BE SURFACE GROUND TO A SMOOTH FINISH. THE CONCERN IS THAT SMOOTH GRINDING MAY ACTUALLY
03	ИE	50234	S MBN	1 H Y N H 2 HA SR HA HA		۲.	MASK A SURFACE DEFECT WHICH MOULD OTHERWISE BE DE TECTABLE. NO FURTHER DETAILS WERE AVAILABLE. (SQN ISSUES ADDRESSED IN RPT WP-11-SQN R1)
04	he	50311	S HBN	1 N N Y N 2 NA NA SR NA			
05	he	50411	S WBN	1 H H H Y 2 HA HA HA SR		,	
IN ¹ -85-299-00301 T50188	HE	50319	S HBN	1 H H Y H 2 HA HA SR HA		QTC	SS WELDS SEEM TO HAVE EXCESS METAL REMOVED AT BUTT Weld Joints, also the Welds exhibit excessive shr Inkage at Joints. This concern is generic but hav
02	HE	50234	S HBN	1 H Y N N 2 HA SR NA HA			E EXAMPLES. THIS HAS BEEN NOTICED FOR THE PAST 6 YEARS IN BOTH UNITS. DETAILS KNOWN TO QTC, WITHHEL D DUE TO CONFIDENTIALITY. CONSTRUCTION DEPT CONCE
03	ИE	50111	S MBN	1 Y N N N 2 SR NA NA NA			R. (SQN ISSUES ADDRESSED IN RPT HP-19-SQN R1)
04	ИE	50432	S MBN	1 H H H Y 2 HA HA HA SR			
05	ИЕ	50411	S WBN	1 H H H Y 2 HA HA HA SR			
QCP10.35-8-11 01	HE	50234	N BLN	1 H Y H H 2 NA SR NA NA		OECP	A WELD ON A DUCT SUPPORT HANGER HAS NOT BEEN COMPL Eted and IS of Poor Workmanship. El 610 RB NEAR C -10 & C-11.
QCP10.35-8-3 01	' HE	50234	N BLN	1 N Y N N 2 NA SS NA NA		OECP	HANGERS IN ERCH TUNNEL NOT SAFE BECAUSE HELDS HERE Not hade by quality helders (Although they here c Ertified Helders). These bad helds passed inspect Ion.
5 CONCERN	IS FOR	CATEGO	IRY HE SI	JBCATEGORY 50234			

	QUEST	-ECPS12 WELDIN	1C G	EMPLOYI Employee conci	TENNESSEE VALLEY OFFICE OF NUCLE E CONCERN PROGR ERN INFORMATION 0235 HELD INSPE	AUTHORIT AR POHER AM System By Catfgo Ction Pro	Y PAGE - 49 RUN TIME - 11:45:02 RUN DATE - 12/17/87 RUN DATE - 12/17/87 CEDURES AT BLNP
CONCERN NUMBER	CAT	SUB CAT	S H R PLT D LOC	1 REPORT APPL 2 SAF RELATED BF BL SQ WB	HISTORICAL REPORT	CDNCERN DRIGIN	CONCERN DESCRIPTION
IN -86-230-00301 T50194	HE	50414	S MBN	1 H N H Y 2 HA NA HA SR		QTC	PREVIOUSLY REJECTED ITEMS (HANGER WELDS) ARE FREQU Ently accepted by someone other than a supervisor
02	HE	50235	S WBN	1 N Y NÌ N 2 NA SR NA NA			OR HIGH LEVEL (GRADE) PERSONNEL. DETAILS KNOWN TO QTC, HITHHELD DUE TO CONFIDENTIALITY. NUC. POWER DEPT. CONCERN. CI NOULD NOT PROVIDE FURTHER INFO RMATION.
PH -85-012-X0301 T50077	ИЕ	50135	S MBN	1 Y H H H 2 SR HA HA HA	PH-85-012-X03	QTC	HELDING AND BRAZING INSPECTION OF SAFETY-RELATED H Vac Ducthork has deleted subsequent to 1981 from t He qa program nithout adequate justification. Hat
. 02	WE	50305	S WBN	1 N N Y N 2 NA NA SR NA			TS DAR UNITS 1 & 2, SAFETY RELATED DUCTNORK. ADDI TIONAL DETAILS ARE AVAILABLE IN FILE. (SQN ISSUES
03	ИЕ	50235	S NBN	1 H.Y H H 2 NA SR NA NA			ADDRESSED IN RPT HP-05-5QN R1)
t 04	^ NE	50405	S WBN	1 II N II Y 2 NA NA NA SR			· · ·
XX -85-034-X0201 T50138	ІН	60300	S BLN	1 N Y N N 2 Na no na na		QTC	EMPLOYEE (KNONN) FALSIFIED HELD RECORDS. BELLEFON TE, UNIT \$1, 1977-1980, CONTAINMENT HALL. CONSTRU-
÷02	HE	50235	S BLN	1 N Y N N 2 NA SR NA NA		•	CTION DEPT. CONCERN. CI HAS NO MORE INFORAMTION. No follow up required.
XX -85-034-00101 T50137	IIE	50235	N BLN	1 N Y N N 2 NA SR JIA NA		` QTC	BELLEFONTE QC INSPECTOR (NAME KNOWN) SIGNED OFF HE LDS FOR CONTAINMENT HALL (APPROX. DATES KNOWN) WIT HOUT PHYSICALLY INSPECTING THEM. CI IS ANONYMOUS. REASON: THIS CONCERN HAS BEEN REVISED TO DELETE A H ADDITIONAL CONCERN HAICH HAS BEEN ADDRESSED. ST ATUS: THIS CONCERN WAS ASSIGNED TO NSRS TO INVESTI GATE ON 8-8-85. NO FOLLOM-UP REQUIRED.
XX -85-068-00501 T50138	IH	60300	S BLN	1 H Y N N 2 Na no na na		QTC	BELLEFONTE - DURING A REVIEW OF HELD CARDS BY THE AUTHORIZED NUCLEAR INSPECTOR (ANI), IT HAS OBSERVE
02	HE	50235	S BLN	1 N Y N N 2 NA SR NA NA			D THAT THE HEAT NUMBER WAS MARKED "N/A". THO HEEK S LATER HEAT NUMBERS NERE FOUND TO HAVE BEEN ENTER ED ON THE DOCUMENTS. WHEN THE ANI QUESTIONED WHER E THE NUMBERS CAME FROM, NO EXPLANATION WAS PROVID ED. CONSTRUCTION DEPT. CONCERN. CI HAS NO FURTHE R INFORMATION. NO FOLLOW UP REVIRED.
5 CONCER	NS FOR	CATEGO	DRY HE S	UBCATEGORY 50235	•		

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	REQUES	0J-ECPS12 T	21C	TENNESSEE VALLEY OFFICE OF NUCLEA Employee Concern Progra	R POHER M SYSTEM	(ECPS) RUN TIME - 11:45:02 RUN DATE - 12/17/87
CATEGORY: HE N	OH QA/	QC HELDI	16	EMPLOYEE CONCERN INFORMATION B SUBCATEGORY: 50236 HELD REPAIR	S AT BLN	P
CONCERN NUMBE	R CA	SUB T CAT	S H R PLT D LOC		CONCERN ORIGIN	CONCERN DESCRIPTION
BNPQCP10.35-21	01 H	E 50236	N BLN	1 N Y N N 2 NA SR NA NA	OECP	4" SS PIPE ON NM SYSTEM HAS IMPROPERLY REPAIRED. PIPE HAS DAMAGED WHILE CUTTING A SLEEVE.
2850162005	01 0	P 30803	S NPS	1 Y Y Y Y 2 S6 SS SS SS	NRC i	TVA MAKES REPAIRS TO THEIR NUCLEAR PLANTS HHICH AR E NOT IN ACCORDANCE HITH ASME CODES, SUCH AS OVERL AYS, PATCHES, AND EVEN FURMATITE (SOPHISTICATED GL
	02 H	E 50125	S NPS	1 Y N N N 2 SS NA NA NA	:	AYS, PATCHES, AND EVEN FURMATITE (SOPHISTICATED GL UE). (SQN ISSUES ADDRESSED IN RPT NP-25-SQN RO)
	03 H	E 50236	S NPS	1 N Y N N 2 NA SS NA NA		· ·
٠	04 H	E 50325	S NPS	1 N N Y N . 2 NA NA SS NA .		
ŧ	05 N	E 50425	S NPS	1 N N N Y 2 NA NA NA SS		•

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2 CONCERNS FOR CATEGORY HE SUBCATEGORY 50236

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REFERENCE - ECH FREQUENCY - REC DNP - ISSS - RIM CÁTEGORY: HE NON	QUEST	-ECPS12 HELDIN		ĺ.	INNESSEE VALLEN IFFICE DF HUCLI Concern Progr In Information 143 Adequacy (EAR POHER Ram System By catego	RUN TIME - 11:45:02 RUN DATE - 12/17/87 RV/SUBCATEGORY
CONCERN NUMBER	CAT	SUB CAT	S H R PLT D LOC	1 REPORT APPL 2 SAF RELATED BF BL SQ IIB.	HISTORICAL REPORT	CONCERN ORIGIN	CONCERN DESCRIPTION
· IN -85-406-00201 T50013	, HE	50135	S WBH	1 Y N N N 2 SS NA NA NA		QTC	PRIOR TO 1979 THERE WAS NO SPECIFIC WELD INSPECTIO N CRITERIA FOR USE BY INSPECTION PERSONNEL. IT IS
02	WE	50309	S MBN	1 N N Y N 2 NA NA SS NA			BELIEVED THAT THIS PROBLEM WAS VALID TVA SYSTEM W IDE- ALL PLANTS. (SQN ISSUES ADDRESSED IN RPT WP-0 9-SQN R1)
03	ИЕ	50243	S WBN	1 N Y N N 2 NA SS NA NA	-	•	
04	HE	50432	S HBN	1 N N N Y 2 Na na na ss		î . : î	
QCP10.35-8-4 01	HE	50243	N BLN	1 N Y N N 2 NA SR NA NA		DECP	CI TOLD TO START USING A DIFFERENT HEAT TREATING P Rocess with no explanation.
XX ¹ -85-102-00601 T50172	QA	80201	S BFN	1 N II Y N 2 Na Na Sr Na		QTC	BROWN'S FERRY: THE VISUAL EXAMINATION PROCEDURE WH Ich covers asme section II is very non specific. Nuclear power dept. Concern. CI has no additional
03	WE	50135	S BFN	1 Y H N N 2 SR NA NA NA		•	INFORMATION. NO FOLLON UP REQUIRED.
	ИE	50243	S BFN	1 H Y H H 2 HA SR HA HA		· !	
- 05	ИЕ	50432	S BFN	1 N N N Y 2 Na na na Sr	4,	i	
06	QA	80252	S BFN	1 N N Y N 2 NA NA SR NA		a	
XX -85-102-00701 T50172	WE	50243	S BFN	1 N Y N N 2 NA SR NA NA		QTC	BROWN'S FERRY: NDE INSPECTORS CAN ONLY WRITE A NOT Ice of inspection on in-service related defects. Preservice defects can only be identified by a mai
· 02	WE	50135	S BFII	, 1 Y H N N 2 SR NA NA NA			INTENANCE REQUEST. NUCLEAR POMER DEPT. CONCERN. C I HAS NO ADDITIONAL INFORMATION. NO FOLLON UP REQ UIRED.
03	HE	50426	S BFN	1 N N N Y 2 NA NA NA SR		k	UINL <i>D</i> .

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	Li,:. ,	الدأ بالملاد ا			atina and Mich. A	110911A	nesi se en 1989 de 2019 de Coloriste de Cardelle de Cardelle de Coloriste de Cardelle de Coloriste de Cardelle Coloriste de Cardelle de Car
FREQUENCY - REC ONP - ISSS - RIM	UEST	-ECPS1		EMPLOY Employee conc	TENNESSEE VALLEY OFFICE OF NUCLI EE CONCERN PROGI ERN INFORMATION 0243 ADEQUACY (EAR POLIER Ram System By Catego	RUN TIME - 11:45:02 (ECPS) RUN DATE - 12/17/87 RY/SUBCATEGORY
CONCERN NUMBER	CAT	SUB CAT	S H R PL D LO		HISTORICAL REPORT	CONCERN ORIGIN	CONCERN DESCRIPTION
XX -85-102-01101 T50172	WE	50243	s sq	I I N Y N N 2 NA SR NA NA	1-85-735 - 591	QTC	SEQUOYAH: NDE INSPECTORS CAN ONLY WRITE A NOTICE O F INSPECTION ON IN-SERVICE RELATED DEFECTS. PRESE RVICE RELATED DEFECTS CAN ONLY BE IDENTIFIED BY A
02	HE	50399	S SQI	I N N Y N 2 NA NA SR NA			NAINTENANCE REQUEST. NUCLEAR POWER DEPT. CONCERN. CI HAS NO FURTHER INFORMATION. NO FOLLOW UP REQU IRED. (SQN ISSUES ADDRESSED IN NSRS RPT I-85-735-S
03	he	50135	S SQI	I Y N N N 2 SR HA NA NA			QN)
04	ИE	50426	S SQI	I I N N N Y 2 NA NA NA SR			

5 CONCERNS FOR CATEGORY HE SUBCATEGORY 50243

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CONCERN	DESCRIPTION OF ISSUES	I COMMENTS
BLN-86-015-001		I The Bellefonte program
EX-85-039-001		I for control of welding
IN-85-234-001		l filler material meets
IN-85-352-002		I the requirements of
IN-85-424-001		ANSI/AWS D1.1 Section 4
IN-85-424-004		and ASME Section III
IN-85-424-006		NB-4000.
IN-85-424-007		
IN-85-426-001	Lack of portable rod ovens	Atmospheric exposure
IN-85-441-003	I to protect coated electrodes	
IN-85-453-009	from moisture absorption.	BNP-QCP-8.1. Also,
IN-85-454-004		electrodes are qualified
IN-85-501-001	l l	for extended exposure,
IN-85-672-003	1	l making the use of port-
IN-86-047-001	l	able ovens unnecessary.
NI-85-053-004		÷
(X-85-068-003	· · · ·	
(X-85-068-006		
IN-85-247-001		
	Poor quality E7018	Electrode operability i
l	l electrodes.	a subjective evaluation
1	l	for which there is no
l		quantitative industry
1	· · · · · · · · · · · · · · · · · · ·	standard. DNC requires
	1	a series of operability
l	1	tests prior Lo award of
		a contract to supply
1	i I	coated electrodes. All
1	i 1	welding material used
1	1	for permanent plant
1	I I	features meets the re-
1	I I	quirements of ASME
1	1	Section II and
1	1	Section III.
l	Administrative expetites for	The substant show the set
	Administrative practice for I	•
1	the return of filler	tices for return of
	material.	filler material have no
1	1	welding related techni-
1		cal significance, and
1		are addressed by ECTG
1		Subcategory 70200,
		"Work Rules".
1	· · · · · · · · · · · · · · · · · · ·	This issue has been
· · · · · ·	· · · · · · · · · · · · · · · · · · ·	This issue has been addressed by Weld
1 1 1 1	1	addressed by Weld

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CONCERN	DESCRIPTION OF ISSUES	COMMENTS
IN-85-458-001 IN-86-019-001 NS-85-001-001 PH-85-040-001 WI-85-013-003 WI-85-030-007 WI-85-030-008 WI-85-041-006 WI-85-041-008	The Process Specification permitted inspection of AWS welds through coating of carbo-zinc primer. Thousands of welds may have been inspected through primer. There is no docu- mentation to show which welds were involved. Inspectors did not under- stand the coating thickness limit for inspecting primed welds.	dures meet the require- ments of ANSI/AWS D1.1. This issue has been addressed by Weld Pro- ject Evaluation Report WP-02-BLN.
EX-85-021-002 IN-85-113-003 IN-85-335-002 IN-85-426-002 IN-85-480-004 IN-85-725-X15 IN-85-940-X04 JLH-85-002		
	not require welding continue to have their qualification updated. 	

CONCERN	1 DESCRIPTION OF ISSUES	COMMENTS
	Welders on restriction (not	I Neither ASME Section IX
	I allowed to weld) kept their	l nor AWS D1.1 uses the
	qualification continuity	l term restriction when
	l updated.	l referring to welder
	1	I qualification. The only
	1	I other instance where
	1	I welders might be consid-
	1	l ered "restricted" from
		I welding is when they
		1 have a personnel injury
	•	1 or sickness that prev-
4		-
	1 °	I ents them from physica-
		I lly performing the weld-
. .		l ing activity. These in-
,		I dividuals are allowed to
	1	l maintain their qualifi-
•	1	l cation up to the time
1		l for continuity update.
	I I The possibility exists that	l I If two individuals are
	I one welder could weld or	l observed in the same
	I complete a test plate for	I test booth at any time
	l another	l or for any reason during
•	3	l testing, both individ-
	,	I uals are immediately
		I suspended from further
		l testing and denied
		l qualification.
	Welders qualification at	' I Welding Engineering at
	I Muscle Shoals may not have	I BLN does not certify
	I had the required number of	I welders transferred from
	I bend tests.	l other sites without re-
, -		I viewing their Perfor-
	1	
	1	I mance Qualification Test
	1	l record(s).
	1	I This issue has been
	1	l addressed by Weld Pro-
	1	I ject Evaluation Report
	I	WP-03-BLN.
[N-85-007-001	Availability of inspection	Inspection tools have
[N-85-134-002]	tools.	l been available since the
[N-85-406-003	1	beginning of construc-
	1	I tion. These tools were
	1	l both site fabricated and
	1	commercially procured,
	1	l
	1	l This issue has been
		addressed by Weld Pro-
	I	ject Evaluation Report
		WP-04-BLN.

Page 3 of 9

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CONCERN	DESCRIPTION OF ISSUES	COMMENTS
IN-85-476-004 IN-85-981-001	Qualification of Welding Inspectors.	Welding Inspectors are qualified in accordance
XX-85-107-001	 Topical Report not in com-	with the TVA Quality Assurance program.
WI-85-041-002 WI-85-081-007	pliance with ANSI N45.2.6.	Welding Inspectors are
		qualified and certified
,		using SNT-TC-1A as a
		guide, rather than ANSI N45.2.6. Exceptions to
		Reg. Guide 1.58 are made
1		in the Topical Report.
		This issue has been
		addressed by Weld Pro- ject Evaluation Report
		WP-06-BLN.
EX-85-008-001	Qualification and experience	Subjourneymen are utili-
IN-85-706-001	of Subjourneymen.	zed in accordance with the applicable labor
IN-86-158-006 XX-85-045-001	•	agreement and good
		management practices.
1	Adequacy of TVA Welder	Welders are tested and
•	Training Program.	qualified in accordance with AWS D1.1 and ASME
		Section IX.
. 1		This issue has been
1		addressed by Weld Pro- ject Evaluation Report
		WP-07-BLN.
XX-85-110-001	QAE-2 may not have been I	QAE-2 was a study to identify improvements
	implemented at BLN.	that would make the
		overall welding and NDE
		program more effective.
		The one deficiency at BLN was previously id-
		entified, tracked and
	-	resolved as finding num-
1		ber 1 in audit BN-W-80-08.
1	 '	This issue has been
ę		addressed by Weld Pro-
•		ject Evaluation Report WP-10-BLN.
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CONCERN	DESCRIPTION OF ISSUES	COMMENTS
IN-85-247-002 IN-85-303-001 XX-85-068-008	Suitability of welding equipment.	The equipment used at BLN has sufficient fea- tures to operate within the parameters of the approved welding proce- dures and to make accep- table welds.
	Purity of bottled gases used in welding and pneumatic testing.	The procurement specifi- cation requires a -40°F dew point. Test reports are only required at the option of DNC.
		addressed by Weld Pro- ject Evaluation Report WP-13-BLN.
BEM-85-001-001 BEM-85-001-002 BFM-85-001-001 BFM-85-001-002 WBM-85-001-002 WI-85-001-002 WI-85-030-007 IN-85-026-001 IN-85-212-001 IN-85-682-002	Foremen perform pre-weld inspections, which is not in accordance with the Topical Report, ANSI N45.2.5 and AWS D1.1.	AWS D1.1 allows pre- weld activity examin- ations to be on a sampl-
		This issue has been addressed by Weld Pro- ject Evaluation Report WP-16-BLN.
IN-85-282-002 IN-85-299-003 BNPQCP10.35-12 BNPQCP10.35 8-11 BNPQCP10.35-8-3		Surface grinding of welds is provided for by the ASME, ANSI and AWS codes.
	Shrinkage of stainless steel butt joints. I I I I I I I I I I I I I I I I I I I	ent in girth butt welded joints in stainless steels. To minimize shrinkage, heat input during welding is con- trolled by adherence to approved welding proce- dures.

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CONCERN	DESCRIPTION OF ISSUES	COMMENTS
	<pre>1 Safety of the hanger welds 1 in the ERCW tunnel, quality 1 of cable tray welds in the 1 control building, and in- 1 complete weld(s) on a duct 1 support. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</pre>	<pre>1 All support welds, duct support welds and misce- l llaneous structural welds have been reinspe- cted and reworked as re- quired. This reinspec- l tion effort was accompl- ished in accordance with the dispositions of num- erous nonconformances which were considered significant and reported significant and reported to the USNRC under 10 CFR 50.55(e). This issue has been addressed in Weld Pro- ject Evaluation Report WP-34-BLN.</pre>
PH-85-012-X03 IN-86-230-003 XX-85-034-001 XX-85-034-X02 XX-85-068-005	<pre>Welding and brazing inspec- Upper tion of safety related duct- Upper work deleted from the QA Upper Program. Upper Welding State Upper State Uppe</pre>	I Procedure BNP 6.4, Rev 1



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CONCERN	DESCRIPTION OF ISSUES	COMMENTS
	During review of weld cards by the ANI, it was noted that the heat number was marked N/A. Two weeks later the ANI found that the heat number had been entered on the cards.	this issue provided insufficient information on which to base an
, r	Falsification of weld re- cords for Containment wall.	Issue is factual and was originally reported as an allegation in 1980. TVA personnel at Bellefonte issued a Non- conformance Report which was reported to the NRC under 10 CFR 50.55 (e).
	Rejected hanger welds being accepted by personnel other than the Supervisor or higher level Inspector.	The weld inspection pro- gram at BLN requires that rejectable items be documented. Reinspect tion is accomplished only after disposition of corrective action has been made. The reinspect tion may or may not be performed by an inspect of the same certifi- cation level as the in- spector that previously rejected the item.
		This issue has been addressed in Weld Pro- ject Evaluation Report WP-35-BLN.
2850162005 BNPQCP10.35-21	Weld repairs such as over- l lays, patches and Furmanite (viscous fluid acalant) are not in accordance with the ASME Code.	

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I pipe on Spent Fuel Cooling (NM) system improperly gated by the site Quality Control and I Quality Control and I Welding Engineering Units. The evaluation I included chemical and I magnetic tests to check I for residue from a flan I cutting operation. No I evidence could be found I indicating that a repai I was made to the pipe I cutting operation. No I evidence could be found I indicating that a repai I was made to the pipe I was made to the pipe I was made to the pipe I cutting operation. No I ect Evaluation Report I weP35-406-002 N=85-406-002 No specific inspection I addressed by Weld Proj- I ect Evaluation Report I weP35-102-007 X=85-102-007 criteria prior to 1979. I criteria prior to 1979. I criteria prior to 1979. I spection criteria. I all of the necessary in I spection criteria. I all of the necessary in I spection criteria. I Reporting of inservice and I throughout constructior I sused to report de- I fects identified within I the dufined scope of an I inspection, inservice. I Adequacy of visual examinat-I I on procedure for ASME I con procedure for ASME I con procedure for ASME I con procedure for ASME I con procedure for ASME I was issued on 12-3-75. I section III.	CONCERN	I DESCRIPTION OF ISSUES	I COMMENTS
<pre>(NM) system improperly Quality Control and repaired. Welding Engineering Units. The evaluation included chemical and magnetic tests to check for residue from a flam cutting operation. No evidence could be fourm indicating that a repair was made to the pipe identified by the concern. This issue has been addressed by Weld Proj- ect Evaluation Report HP-36-BLN. N-85-406-002 No specific inspection criteria prior to 1979. X-85-102-007 criteria prior to 1979. X-85-102-006 These procedures in place X-85-102-006 These procedures provid Reporting of inservice and The Notice of Indicatio proservice defects. is used to report de- spection criteria. Reporting of visual examinat- proservice. The Maint- ion procedure for ASME enance Request is used Section III. the defined scope of an inspection. Adequacy of visual examinat- proservice. The Maint- ion procedure for ASME was issued on 12.3-75. ion procedure for ASME was issued on 12.3-75. Section III. This procedure provides Adequacy of visual examinat- Procedure BNP-QCP-7.5 ion procedure for ASME was issued on 12.3-75. Section III. This procedure provides Adequacy of visual examinat- Procedure BNP-QCP-7.5 ion procedure for ASME was issued on 12.3-75. Section III. This procedure provides Adequacy of visual examinat- Procedure BNP-QCP-7.5 ion procedure for ASME was issued on 12.3-75. Section III. This procedure provides All of the necessary in Structions and criteria For visual examination</pre>		I Four inch stainless steel	l This issue was investi-
I repaired. I Welding Engineering I uits. The evaluation I included chemical and I magnetic tests to check I cutting operation. No I was made to the pipe I identified by the I concern. I magnetic tests I		I pipe on Spent Fuel Cooling	
Image:		I (NM) system improperly	Quality Control and
<pre>Included chemical and Imagnetic tests to check Included chemical and Imagnetic tests to check Included chemical and Imagnetic tests to check Included chemical and Included fest to check Included fest to check Included fest to check Included chemical and Included fest to check Included fest to check Include fest to check</pre>		l repaired.	I Welding Engineering
Imagnetic tests to check Imagnetic tests		1	
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Image: Section inspection inspection. Image: Section III. Image: Section III. Image: Section III. Image: Sec			l concern.
Impeddentiation Impeddentiation			I This issue has been
Impeddentiation Impeddentiation			I addressed by Weld Proj-
Implementation Implementation Implementation Implementation Implementation			
X-85-102-007 1 criteria prior to 1979. 1 procedures in place X-85-102-011 1 throughout construction X-85-102-006 1 These procedures provide APQCP10.35-8-41 1 all of the necessary in Image: Reporting of inservice and Image: Reporting of inservice and Image: Report defects. 1 The Notice of Indication Image: Image: Report report defects. 1 fects identified within Image:			
X-85-102-011 I throughout construction X-85-102-006 I These procedures provided all of the necessary in spection criteria. INPQCP10.35-8-41 I all of the necessary in spection criteria. I I fects identified within I I the dufined scope of an inspection, inservice of indication I I inspection, inservice of indication I I the dufined scope of an inspection, inservice of indication I I I I I I I I I I I I I I I I I I I I I I I I I I I I I	IN-85-406-002	No specific inspection	I BLN has had a network of
<pre>X-85-102-006 These procedures provid INPQCP10.35-8-4 These procedures provid Inversion criteria. Reporting of inservice and The Notice of Indication preservice defects. is used to report de- fects identified within the defined scope of an inspection, inservice of Adequacy of visual examinat- preservice. The Maint- ion procedure for ASME enance Request is used Section III. to report observations defined scope of an inspection. Adequacy of visual examinat- Procedure BNP-QCP-7.5 ion procedure for ASME was issued on 12-3-75. Section III. This procedure provides all of the necessary in structions and criteria for visual examination</pre>	(X-85-102-007	criteria prior to 1979.	l procedures in place
NPQCP10.35-8-41 All of the necessary in spection criteria. Reporting of inservice and The Notice of Indication preservice defects. Adequacy of visual examinat-1 ion procedure for ASME Section III. Adequacy of visual examinat-1 Adequacy of	X-85-102-011		I throughout construction.
<pre>NPQCP10.35-8-41</pre>	(X-85-102-006		I These procedures provide
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preservice defects. is used to report de- fects identified within the defined scope of an the defined scope of an adequacy of visual examinat- ion procedure for ASME enance Request is used Section III. to report observations defined scope of an defined scope of an inspection. defined scope of an defined scope of an defined scope of an defined scope of an all of the necessary in all of the necessary in all of the necessary in all of visual examination	l		l spection criteria.
<pre>1</pre>	1		I The Notice of Indication
<pre>1</pre>		preservice defects.	
<pre>1</pre>	I		
<pre>Adequacy of visual examinat-1 preservice. The Maint- ion procedure for ASME enance Request is used Section III. to report observations defined outside the defined scope of an Adequacy of visual examinat-1 Procedure BNP-QCP-7.5 ion procedure for ASME was issued on 12-3-75. Section III. This procedure provides all of the necessary in </pre>	1		•
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	1	l process in question was
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	I	l specification.
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	1 .	l addressed by Weld Pro-
	l	l ject Evaluation Report
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