

TVA EMPLOYEE CONCERNS
SPECIAL PROGRAM

REPORT NUMBER: 71100

REPORT TYPE: Management and Personnel Subcategory

REVISION NUMBER: 3

TITLE: Materials

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REASON FOR REVISION:

Incorporation of final TAS editorial comments.

PREPARATION

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CONCURRENCES

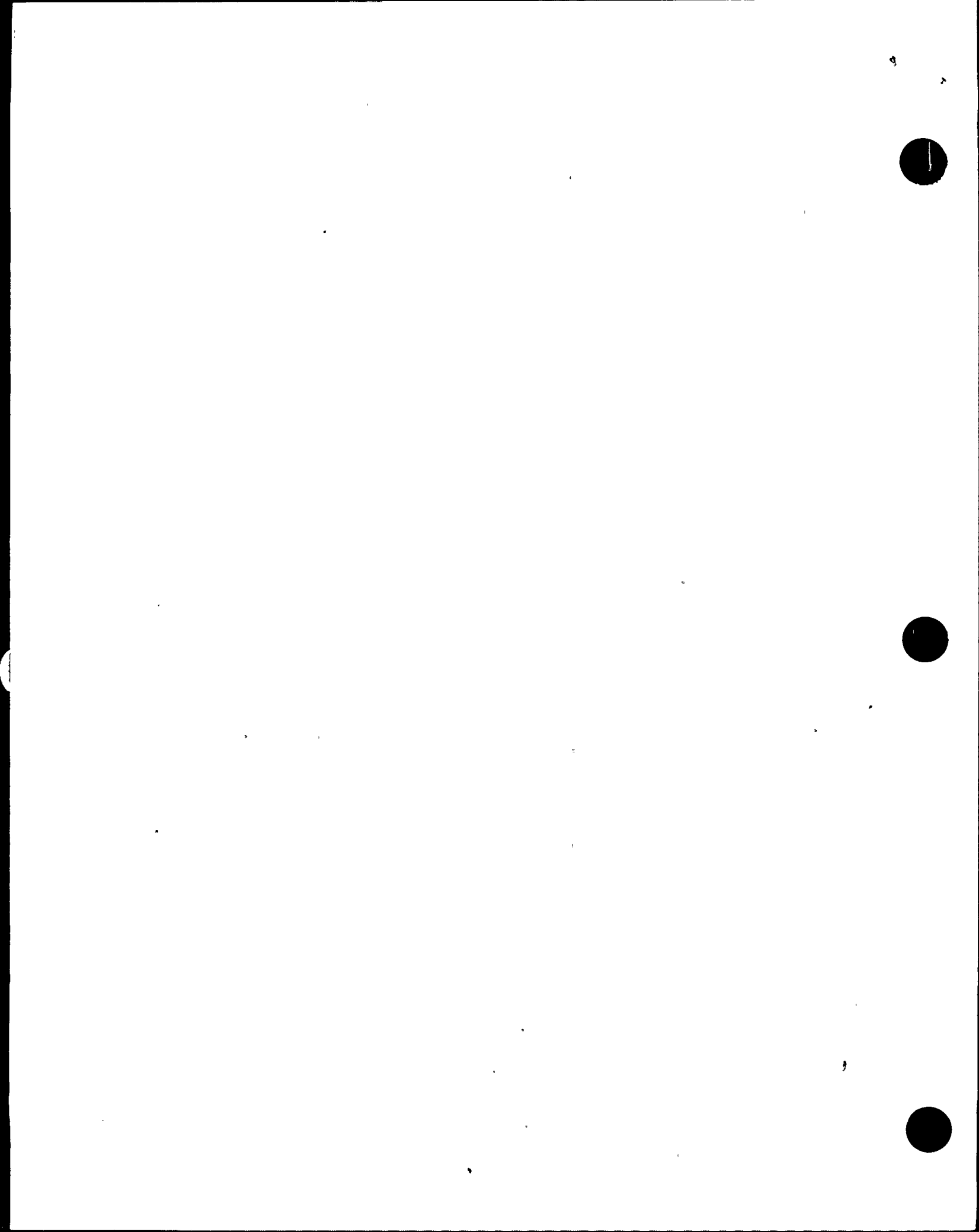
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		CONCURRENCE (FINAL REPORT ONLY)	

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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 (terms formed from the first letters of a series of words).

Additionally, at the end of each subcategory report the reader will find at least two attachments. The first is a Subcategory Summary Table that includes the following information: the concern number, a brief statement of the concern, and a designation of nuclear safety-related concerns. The second attachment is a listing of the concerns included in each issue evaluated in the subcategory.



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.

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.

collective significance 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")

corrective action 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").

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

employee concern 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.

evaluator(s) the individual(s) assigned the responsibility to assess a specific grouping of employee concerns.

findings includes both statements of fact and the judgments made about those facts during the evaluation process; negative findings require corrective action.

issue a potential problem, as interpreted by the ECTG during the evaluation process, raised in one or more concerns.

K-form (see "employee concern")

requirement 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 Manual (e.g., generic, specific, nuclear safety-related, unreviewed safety-significant question).

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
ASME	American Society of Mechanical Engineers
ASTM	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	Modifications and Additions Instruction
MI	Maintenance Instruction
MSPB	Merit Systems Protection Board
MT	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	Office 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
IAS	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 Request or Work Rules
WP	Workplans



1.0 CHARACTERIZATION OF ISSUES

This report addresses six issues raised by 70 employee concerns in the Materials Subcategory of the Management and Personnel Category. The issues are grouped into three elements and cover a time span from 1977 through 1986.

1.1 Materials Waste

Issue 71101 - Material Is Misused or Underused

This issue was raised by concerns about the waste of materials found onsite but not used for their intended purpose. It also addresses material and equipment which can be used more than once but for various reasons was used only once or not used at all. This issue accounts for 68 percent of the concerns addressed by this report.

1.2 Materials Availability

Issue 71102 - Material Is Not Available When Needed

This issue was raised by concerns about materials needed for general or specific use on the Watts Bar Nuclear Plant (WBN) Construction project, which, for various reasons, are not onsite when needed or cannot be found.

1.3 Miscellaneous Materials Issues

Issue 71103 - Improper To Buy Foreign Materials

Two Concerned Individuals (CIs) objected to the fact that TVA had an inspection office in Switzerland and bought foreign materials instead of only U.S. products.

Issue 71104 - Accepting Low Bid Creates Waste

The CI contends that accepting the lowest bidder results in poor quality material and waste.

Issue 71105 - Purchasing Process Is Inefficient

The CI contends that TVA's purchasing process at Watts Bar is not efficient, cost effective, or schedule sensitive.



Issue 71106 - Stocking and Material Delivery are Inefficient

Two CIs contend that Power Stores' Auto-stocking System is not reliable due to inadequate stocks and slow delivery.

To locate the issue in which a particular concern is evaluated, consult the following attachments:

Attachment A, Subcategory Summary Table

Attachment B, List of Concerns by Issue

All Management and Personnel Category concerns having a technical component (including all concerns designated Nuclear Safety-related) are shared with the appropriate technical category for investigation and resolution of that technical component. Report(s) sharing a concern with this report are identified in the entry for that concern on Attachment A.

2.0 SUMMARY

2.1 Summary of Issues

The issues in this subcategory relate primary to perceived waste of materials through misuse or underuse and lack of availability of materials at the time and place they are needed.

2.2 Summary of Evaluation Process

The evaluator has reviewed all the information available on the concerns in this subcategory. The information pertinent to the evaluation of the issues has been considered and incorporated in this report.

TVA and site-specific instructions on the handling of material waste were reviewed for adequacy during this evaluation. Several subcategory reports produced by the Material Control Category Evaluation Group were also examined. Numerous scrap and auxiliary storage areas were visited, and personnel responsible for those areas were interviewed.

2.3 Summary of Findings

No instances of violations or failures to implement established Quality Assurance (QA) or non-QA material waste or availability policies and procedures were identified by this evaluation. However, such violations were discovered and reported in Material Control Task Group's Subcategory Report 4-3, Installation. That report should be consulted by anyone interested in further information.

The primary problems identified by this evaluation of the materials waste issue were with the storage and disposition practices of TVA construction divisions, especially at the WBN site. Large amounts of waste materials at WBN are stored and disposed of by means outside the established policies and procedures that govern the accountability and management of the Warehouse Services Unit. These problems develop because of the need to use auxiliary storage areas (staging) or because of design changes.

No written policies or procedures establishing adequate guidelines for the management of waste materials were identified within TVA. Such materials historically are used piecemeal, or they are ignored and eventually sent to scrap areas and surplus property areas for sale outside TVA.

In many cases, such handling of materials for large construction projects at TVA, although undocumented, may be the most efficient and cost-effective method of doing business. Nevertheless, without established, documented guidelines, such practices have been, and will continue to be, perceived as an unnecessary waste of resources by individuals who are not aware of upper management's need to balance total project cost against construction schedules and goals.

The primary problems identified by the evaluation of the materials availability issue were that the Division of Nuclear Construction (DNC) uses five different Materials Accounting/Management Systems, none of which is computerized. These manual systems greatly reduce the efficiency of handling materials, particularly for job planning, usage history, reserve stock, establishment of adequate reorder points and quantities, duplication of items, and communications with potential user/supplier organizations onsite, as well as throughout TVA.

Substantial management and engineering attention has been focused on procurement policies and procedures, but no evidence of management review or evaluation of the adequacy of present materials management systems could be identified.

2.4 Summary of Collective Significance

The procedures and policies in use for identification and management of surplus materials and for management and use of auxiliary storage areas are generally adequate, but they do not constitute a complete materials management and control program.

2.5 Summary of Causes

DNC's lack of procedures for governing all phases of surplus materials management and for effective use of auxiliary storage areas caused the negative findings of this evaluation.

2.6 Summary of Corrective Action

DNC will revise WBN-SOP 32, "Administrative Control of Material," to incorporate the requirement that unused and surplus material be returned to warehouse stock. Additionally, the newly formed Materials and Procurement Service Staff has been assigned direction and oversight responsibility for all materials matters.

3.0 EVALUATION PROCESS

3.1 General Methodology

The evaluation of this subcategory was conducted in accordance with the Employee Concerns Task Group (ECTG) Evaluation Plan and the evaluation plan for the Management and Personnel Category. The concern files were reviewed and issues were identified. Source documents were researched and interviews were conducted to determine the applicable requirements or criteria. The issues were judged against the requirements or criteria. The findings were analyzed for their collective significance. Causes for negative findings were identified, as were the responsible organizations. Corrective action plans were developed and implemented for the negative findings.

3.2 Specific Methodology

TVA and specific construction procedures and policies which addressed materials management and control programs were reviewed. Nine persons were interviewed for this evaluation. These interviews included individuals both directly and indirectly involved in various phases of materials management and control from warehousing, to engineering, to users. These interviews also included present and former DNC employees not currently onsite at WBN. Numerous materials storage areas were visited. These included the Warehouse Services Unit storage area, the new scrap yard, the primary "bone yard," and various craft "laydown" and staging areas at WBN.

Reports generated by evaluators in the Materials Control Category Evaluation Group of the WBN ECTG were reviewed, as well as surplus property sales reports from WBN covering the period from 1982 through the present. TVA line management responses to individual concerns were reviewed and found to be consistent with the conclusions of this evaluation.

4.0 FINDINGS

4.1 Materials Waste

Issue 71101 - Material is Misused or Underused

Discussion

Substantial amounts of usable (in some cases new and unused) materials were found in scrap yards throughout WBN. DNC, because of prior employee concerns dealing with QA, is in the process of establishing an access-controlled scrap yard and of providing a minimal amount of material sorting, in hopes of using some of these items. However, while this process is a very positive step, the following weaknesses must be addressed:

- A. There are no written or definitive program criteria, guidelines or controls in place to establish an efficient or cost-effective method of determining when or if an item should be placed in a scrap storage area as opposed to being returned to stock in the Warehouse Services Unit. Further investigation revealed that no organization could be identified within TVA which had a documented program of this nature.

- B. There are no manual or automated data processing (ADP) listings of items and equipment stored in scrap yards. Such listings would expedite or promote use of these materials and could limit the types or quantities of materials kept in scrap yards. The WBN Construction organization does have a verbal policy which encourages Construction Engineering Section personnel, at their discretion and when time allows, to visually review these items before procuring new materials. Again, while this is a very positive step, it is severely limited in scope and effectiveness because of the lack of materials listings and because personnel have to rely solely upon visually spotting one item among several thousands. Further investigation revealed that other TVA organizations usually have in effect the same informal policy as WBN DNC.
- C. No written or definitive program criteria, guidelines or controls could be identified establishing a method of determining (1) when materials can no longer be used at WBN, (2) when they should therefore be made available to other TVA organizations for use, or (3) when they should be sold to an organization outside of TVA. These decisions are usually made by representatives from the warehouse, Engineering, and various other DNC personnel, and are typically prompted by lack of space or a site cleanup effort rather than by actual future needs or the usability of materials. Only in a very limited number of identified cases have supposed surplus or scrap materials ever had to be replaced for support of the Construction project after being transferred to other sites or sold outside of TVA.

Substantial amounts of general and specific use materials were found in auxiliary storage areas throughout WBN. These stored materials are beyond the control of the Warehouse Services Unit in laydown areas, jig rooms, gang boxes, staging areas, and bone yards.

There are no written, definitive program criteria, guidelines, or controls in place to adequately establish responsibility reporting, monetary accounting, inventory control, multiple use of materials, or identification of surplus materials.

While it is a desirable and cost-effective practice to "stage" materials and equipment as close as possible to the work area, the following problems must be addressed:



- D. Responsibility Reporting--The individual craft foreman, or the DNC engineer over the foreman's tasks, is accountable for the materials and for the storage areas used by the foreman's crew or system. Upon reassignment or termination of the accountable person, particularly if it is a foreman, the general use items in storage are usually not addressed but rather are ignored, moved in mass to a bone or scrap yard, or are pilfered by other personnel as needed.
- E. Monetary Accounting--Leftover materials have been charged out to specific jobs or systems and are theoretically consumed completely by that job or system. Currently, it is not considered cost effective in most cases to provide detailed account-tracking of the items not used, or those that can be reused.
- F. Inventory Control--Little or no effort is currently expended to maintain accurate listings, identifications, or assurances of the integrity of non-QA materials.
- G. Multiple or General Use Materials--Since these items are no longer visible by accounting or inventory they are usually kept exclusively for control and use by the foreman and crew that procured them; hence, availability for other jobs and crews is extremely limited.
- H. Identification and Disposition of Surplus Materials--It is within the sole discretion of the "owner" of the item or area to perform a review to determine whether the items identified are to be returned to stock, moved to a larger boneyard, placed in the scrap yard, or ignored. Again, most reviews of this nature are prompted by lack of other work tasks, lack of space, or general clean-up activities rather than a planned attempt to make use of the leftover materials.

Further investigation revealed that similar organizations throughout TVA utilize the same practices to some degree and experience the same problems. These problems have prompted the Division of Fossil and Hydro Power to initiate the Nonstock Program. With the assistance of the Division of Operations Support (Materials), the Division of Fossil and Hydro Power is developing a program to identify, catalog, and account for waste materials through the use of the Materials Accounting/Management System. However, this system is being developed exclusively around operations and maintenance activities and does not address construction activities or any aspects of continued use of uncontrolled auxiliary storage areas.



The WBN DNC organization procures all raw structural steel multi-purpose products to the highest QA criteria, regardless of the proposed final use. As with any large construction project, a large percentage of temporary and permanent structures and systems do not need to be built entirely from QA controlled materials. The following problems in this area need to be addressed:

- I. DNC established the all QA policy to ensure that no unqualified materials would be used in the construction of WBN. The all-QA policy ensures quality, but it is an extremely expensive way of doing that.

On the other hand, further investigation revealed that Office of Nuclear Power (ONP) at Browns Ferry, Sequoyah, Bellefonte, and Watts Bar Nuclear Plants all maintain and use inventories of non-QA raw structural steel products for use on non-QA application. This has been very cost effective and efficient for ONP and has resulted in no significant QA problems.

- J. Although all structural material is purchased to QA requirements, it was found that QA records of raw structural steel products used for non-QA applications by DNC was not maintained. This is in accordance with the WBN QA Program and therefore follows procedures correctly; however, nontraceable, unused quantities of raw structural steel and pipe cannot be returned to the Warehouse Services Unit for potential future use as QA material. This problem accounts for a very large percentage of materials kept in auxiliary storage areas and the scrap yard and therefore is a major contributor to the findings.

A large percentage of the perceived material waste concerns directly cite waste of hanger materials as a major problem. A review of procedures for hanger construction and of the individual responses to concerns made by DNC under the old Employee Concerns Program indicate the following items need to be addressed:

- K. Hanger materials are handled in the same manner and suffer from the same problems as other materials.
- L. No efforts or programs could be identified that will address how much of the large amount of hanger material still warehoused at the WBN Warehouse Services Unit and stored for WBN at the Hartsville Distribution Center will ever be needed at WBN. Based on the stage of completion of WBN, there is a high potential for waste of a large amount of surplus and scrap hanger material.

NOTE: Surplus hanger assemblies have been transferred to WBN from Hartsville and Yellow Creek Nuclear Plants at DNC insistence. This appears as "waste" because only the needed components of the hanger assemblies are being used. In reality, use of these selected hanger components has ultimately saved TVA money because the hanger assemblies at Hartsville and Yellow Creek could have been sold as scrap material.

M. Other than the individual responses to previous employee concerns, no efforts could be identified to inform employees of the following impediments to the efficient use of hanger materials at WBN:

- Design changes based on revised nuclear safety requirements or system modifications which required modification or replacement of prefabricated hangers.
- The storage of and attempt to use surplus materials from cancelled TVA nuclear projects.
- The need to understand that some material waste is an inevitable by-product associated with construction activities.
- The lack of a documented program in effect for review and use of surplus materials.

Conclusion

This issue is factual and identifies a problem for which corrective action is being taken as a result of this evaluation.

4.2 Materials Availability

Issue 71102 - Material Is Not Available When Needed

Discussion

The issue is whether materials needed for general or specific use for WBN's construction are adequately available.

The materials accounting and management system being used by DNC at WBN has been adequate to meet major construction goals, even though most other TVA organizations have moved toward automated



management systems. However, functions which may be adversely impacted by DNC's manual system are inventory control, communications, materials availability (reorder/reserve quantities), and surplus/scraps control and disposition. DNC and Power Stores Section representatives discussed this problem on November 18, 1986, and determined that existing DNC systems were adequate.

Conclusion

This issue cannot be verified as factual.

4.3 Miscellaneous Materials Concerns

4.3.1 Issue 71103 - Improper to Buy Foreign Materials

Discussion

The CIs objected to the fact that TVA had an inspection office in Switzerland and bought foreign material in place of U.S. made material. Several of TVA's steam turbines were purchased from Brown Boveri and made in Switzerland.

TVA does buy from foreign suppliers on occasion but only after the foreign supplier's bid is shown to be a significant percentage below qualified domestic bidders and in accord with the Buy American Act.

TVA had an office in Switzerland in past years as a part of the Office of Engineering's Quality Engineering Branch. Employees of that office monitored supplier quality performance by witnessing inspections and tests and providing related data to TVA's user organizations. The office was closed a few years ago due to the reduced procurement from European suppliers. The office in Switzerland was involved only in inspection of materials and equipment and never initiated purchases.

Conclusion

The material was purchased according to TVA and U.S. Government purchase procedures which call for inspection during the manufacture of the material. Therefore, this issue was not verified as factual.



4.3.2 Issue 71104 - Accepting Low Bid Creates Waste

Discussion

A concern about TVA's policy of accepting the lowest bidder argued that it "creates a lot of waste," because the quality of the lowest bidder's material is often low.

All TVA procurements are made in accordance with federal procurement regulations. Bids are requested by Division of Purchasing and are evaluated by the requisition organization and Division of Purchasing. Approvals for award are made by both those organizations plus the Office of the General Counsel and, for large contracts, by the Board of Directors. This process is intended to assure TVA has an advantageous contract with a quality supplier, with fairness to all bidders. The bidding process stipulates minimum acceptable standards of quality.

Conclusion

This issue is not factually accurate.

4.3.3 Issue 71105 - Purchasing Process is Inefficient

Discussion

The CI contends that TVA's purchasing process at WBN is not efficient, cost effective or schedule sensitive.

Conclusion

Because of the limited information about particular items, a detailed investigation could not be conducted. Therefore, this issue could not be verified as factual.

4.3.4 Issue 71106 - Stocking and Material Delivery are Inefficient

Discussion

Two concerns related to Power Stores raised an issue about the stocking systems and the material delivery time.

An interview with Power Stores supervision found that the Auto-stocking System reorder point and the reorder quantity is controlled by the unit that uses the material. The Power Stores Unit establishes its stock, reorder point and reorder quantity based on information from the groups ordering the materials. A Power Stores supervisor also stated that a storekeeper, teamster and truck are assigned full-time to the delivery of power stores materials and that deliveries are made within two or three hours.

Conclusion

The Auto-stocking System is as reliable as the groups using it, and Power Stores delivers within three hours. Therefore, the issue is not factually accurate.

5.0 COLLECTIVE SIGNIFICANCE

The procedures and policies in use by DNC at WBN and other sites for the identification and management of surplus materials and for the management and use of auxiliary storage areas are generally adequate but they do not constitute a complete materials management and control program.

6.0 CAUSES

The overall Materials Management Program in use at WBN has met most production goals. However, DNC's lack of procedures for governing all phases of surplus materials and for effective use of auxiliary storage areas caused the negative findings of this report.

7.0 CORRECTIVE ACTION INITIATED AS A RESULT OF THIS EVALUATION

As a result of this evaluation, management has committed to the following corrective action items (CATD 711-NPS-1):

- A. DNC will revise WBN-SOP 32, "Administrative Control of Material," to incorporate the requirement that unused and surplus material be returned to the warehouse stock. Moreover, although a written program does not exist, a number of policy memorandums do exist which address the excess material issue.

- B. The newly formed corporate Materials and Procurement Services Staff (part of the ONP Planning and Financial Staff) is assigned the lead role for providing direction and overview for all materials matters, including disposition of excess materials.

8.0 ATTACHMENTS

Attachment A, Subcategory Summary Table

Attachment B, List of Concerns by Issue



REFERENCE - ECPS132J-ECPS132C
 EQUENCY - REQUEST
 P - ISSS - RHM

ATTACHMENT A
 TENNESSEE NUCLEAR ENERGY AUTHORITY
 OFFICE OF NUCLEAR POWER
 EMPLOYEE CONCERN PROGRAM SYSTEM (ECPS)
 EMPLOYEE CONCERN INFORMATION BY CATEGORY/SUBCATEGORY
 SUBCATEGORY: 711 MATERIAL IS MISUSED OR UNDERUSED

PAGE - 1
 RUN TIME - 10:04:39
 RUN DATE - 03/10/87

EGORY: MP MGT. & PERS. ISSUES

CONCERN NUMBER	CAT	SUB CAT	S H R D	PLT LOC	1 REPORT APPL 2 SAF RELATED BF BL SQ WB	HISTORICAL REPORT	CONCERN ORIGIN	CONCERN DESCRIPTION	REF. SECTION CAT - MP SUBCAT - 711
-85-031-00101 T50256	MP	71101	N	WBN	1 N N N N 2 NA NA NA NA		QTC	GOOD MATERIAL IS SOMETIMES SCRAPPED WHEN NOT NECESSARY. CONSTRUCTION DEPARTMENT CONCERN. NO FURTHER INFORMATION IN THE FILE. NO FOLLOW-UP REQUIRED.	
-85-044-00101 T50163	MP	71106	N	WBN	1 N N N N 2 NA NA NA NA	IN-85-044-001	QTC	POWER STORES CANNOT DELIVER MATERIALS ON TIME. CI STATED "IT SOMETIMES TAKES 3 TO 5 DAYS TO GET VERY COMMON MATERIAL THAT SHOULD BE IN STOCK ALL THE TIME". NUCLEAR POWER CONCERN. CI HAS NO ADDITIONAL INFORMATION. NO FOLLOWUP REQUIRED.	
-85-075-00101 T50256	MP	71101	N	WBN	1 N N N N 2 NA NA NA NA		QTC	A GREAT AMOUNT OF MATERIALS AND COMPONENTS HAVE BEEN SCRAPPED AT WATTS BAR. SEVERAL LARGE TRUCK LOADS OF HANGERS, LARGE AMOUNTS OF PIPE, CONDUIT, AND SNUBBERS AND QUITE A FEW VALVES. CONSTRUCTION DEPARTMENT CONCERN. NO FURTHER INFORMATION IN THE FILE. NO FOLLOW-UP REQUIRED.	
-85-094-00401 T50190	MP	71101	N	WBN	1 N N N N 2 NA NA NA NA	EX-85-094-004	QTC	TVA HAS A GREAT DEAL OF MATERIAL WASTE. CONSTRUCTION DEPT. CONCERN. CI HAS NO ADDITIONAL INFORMATION. (NAMES AND DETAILS ARE KNOWN TO QTC AND ARE WITHHELD TO MAINTAIN CONFIDENTIALITY).	
-85-098-00201 T50191	MP	71101	N	WBN	1 N N N N 2 NA NA NA NA	EX-85-098-002	QTC	RIGGING CHOKERS ARE NOT AVAILABLE FOR USE BY CRAFT WORKERS, EVEN WHEN WORKERS CAN FIND CHOKERS, THEY ARE NOT THE RIGHT SIZE AND TYPE (EG TOO LARGE & STIFF FOR LIGHT LOADS). ALSO MISMATCHED PAIRS ARE NOT AVAILABLE. CI FEELS THAT CHOKERS SHOULD BE STORED ON OR NEAR THE CRANES. CI HAS NO FURTHER INFORMATION. (CONSTRUCTION DEPT. CONCERN).	

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-85-100-00201 T50191	MP	71102	N	WBN	1 N N N N 2 NA NA NA NA		QTC	WELD ROD SHACKS IN THE AUX. AND TURBINE BLDGS. ARE NOT USUALLY OPEN BETWEEN THE HOURS OF 11:00 AM AND 12:30 PM. CI FEELS THEY SHOULD BE OPEN. CONSTRUCTION DEPT. CONCERN. CI HAS NO ADDITIONAL INFORMATION.	
-85-101-00101 T50191	MP	71101	N	WBN	1 N N N N 2 NA NA NA NA	EX-85-101-001	QTC	TVA SCRAPS A GREAT DEAL OF MATERIALS, IE.. GOOD HANGERS, FLEX PIPE, STAINLESS PIPE, WELD BADS, WELDING TORCHES, NUTS, BOLTS, WIRE, DUCT TAPE, FLASHLIGHTS, SHUBBERS. WATTS BAR MAIN SCRAP YARD. 1977-1979, 1984 & 1985. CONSTRUCTION DEPT. CONCERN. CI HAS NO ADDITIONAL INFORMATION.	
-85-102-00101 T50193	MP	71101	N	WBN	1 N N N N 2 NA NA NA NA	EX-85-102-001	QTC	THERE WERE A LARGE NUMBER OF HANGERS THROWN AWAY AT WATTS BAR. CONSTRUCTION DEPT. CONCERN. CI HAS NO ADDITIONAL INFORMATION.	
-85-104-00101 T50190	MP	71101	N	WBN	1 N N N N 2 NA NA NA NA	EX-85-104-001	QTC	MANY STAINLESS STEEL VALVES AND HANGERS WERE THROWN AWAY IN THE MAIN SCRAP YARD. 1979, 81, 82. CONSTRUCTION DEPT. CONCERN. CI HAS NO ADDITIONAL INFORMATION.	
-85-105-00101 T50201	MP	71101	N	WBN	1 N N N N 2 NA NA NA NA	EX-85-105-001	QTC	A LOT OF HANGERS ARE THROWN AWAY. (ONGOING) CONSTRUCTION DEPT. CONCERN. CI HAS NO ADDITIONAL INFORMATION. -GENERIC CONCERN-	
-85-108-00101 T50201	MP	71101	N	WBN	1 N N N N 2 NA NA NA NA	EX-85-108-001	QTC	THERE IS A LARGE NUMBER OF HANGERS BEING SCRAPPED, POSSIBLY DUE TO REDESIGN. CONSTRUCTION DEPT. CONCERN. CI HAS NO ADDITIONAL INFORMATION. -GENERIC CONCERN-	
-85-110-00201 T50201	MP	71101	N	WBN	1 N N N N 2 NA NA NA NA	EX-85-110-002	QTC	MANY MATERIALS WERE THROWN AWAY. I.E. HANGERS, 1985, MAIN SCRAP YARD. CONSTRUCTION DEPT. CONCERN. CI HAS NO ADDITIONAL INFORMATION. -GENERIC CONCERN-	

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-85-118-00301 T50203	MP	71102	N	WBN	1 N N N N 2 NA NA NA NA		QTC	SOMETIMES THE CRAFT (KNOWN) WOULD HAVE TO WAIT FOR TWO DAYS TO GET REGULAR MATERIALS FROM THE WAREHOUSE. OCCURRED 1985. CONSTRUCTION DEPT. CONCERN. CI HAS NO ADDITIONAL INFORMATION.	
-85-132-00101 T50202	MP	71101	N	WBN	1 N N N N 2 NA NA NA NA	EX-85-132-001	QTC	THERE ARE GREAT AMOUNTS OF MATERIAL THROWN AWAY - SCRAPPED. I.E... HANGERS, PIPE, STRUCTURAL STEEL, WELD LEADS. CONSTRUCTION DEPT. CONCERN. CI HAS NO ADDITIONAL INFORMATION. -GENERIC CONCERN-	
-85-138-00101 T50207	MP	71101	N	WBN	1 N N N N 2 NA NA NA NA	EX-85-138-001	QTC	A LOT OF MATERIALS HAVE BEEN JUST THROWN AWAY AT WATTS BAR. I.E., HANGERS, ELECTRICAL FITTINGS, BRACKETS, ELECTRIC MOTORS, VALVES, NUTS AND BOLTS. MAIN SCRAP YARD. 1974 - NOW. CONSTRUCTION DEPT. CONCERN. CI HAS NO ADDITIONAL INFORMATION. (DETAILS KNOWN TO QTC AND ARE WITHHELD TO MAINTAIN CONFIDENTIALITY).	
-85-153-00101 T50205	MP	71101	N	WBN	1 N N N N 2 NA NA NA NA	EX-85-153-001	QTC	THERE IS AN EXCESSIVE AMOUNT OF MATERIAL WASTE AT WATTS BAR. I.E.. 6-8 RAILROAD CARS OF MOSTLY HANGERS, SOME PIPE AND STRUCTURAL STEEL. A GREAT NUMBER OF HANGERS WENT STRAIGHT FROM THE FABRICATION SHOP DIRECTLY TO THE SCRAP YARD. ONE SEMI LOAD OF 1/2" SST TUBES. ALL THIS WAS SOLD IN THE OCT. 16-18TH SCRAP SALE, 1985. CONSTRUCTION DEPT. CONCERN. CI HAS NO ADDITIONAL INFORMATION.	
-85-171-00201 T50211	MP	71101	N	WBN	1 N N N N 2 NA NA NA NA	EX-85-171-002	QTC	A LOT OF GOOD MATERIAL HAS BEEN WASTED AT WBNP. I.E. PIPE, HANGERS. CONSTRUCTION DEPT. CONCERN. CI HAS NO ADDITIONAL INFORMATION. -GENERIC CONCERN-	

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-85-049-X0601 T50052	MP	71101	N	WBN	1 N N N N 2 NA NA NA NA	IN-85-049-X06	QTC	3 TO 4 YEARS AGO, APPROX. 2000 TO 3000 COMPRESSED GAS BOTTLES (OXYGEN, ACETYLENE, ARGON, ETC.) WERE BURIED IN THE CSB YARD AT WATTS BAR. CI SITES THIS AS AN EXAMPLE OF TVA'S WASTE AND QUESTIONS WHY TVA DID NOT SELL SUBJECT GAS BOTTLES FOR RE-USE OR SCRAP. CI HAS NO FURTHER INFORMATION.	
-85-116-00201 T50101	MP	71102	N	WBN	1 N N N N 2 NA NA NA NA	IN-85-116-002	QTC	CRAFT CANNOT ALWAYS GET MATERIAL BECAUSE SUPPORT PERSONNEL (KNOWN) ARE UNFAMILIAR WITH MATERIALS BEING USED. RECENT ORGANIZATIONAL CHANGE HAS PARTIALLY ALLEVIATED THIS SITUATION. CI HAS NO FURTHER INFORMATION. NO FOLLOW UP REQUIRED.	
-85-180-00201 T50247	MP	71102	N	WBN	1 N N N N 2 NA NA NA NA		QTC	A SPECIFIC CRAFT (KNOWN) HAS DIFFICULTY IN OBTAINING NECESSARY MATERIALS TO PERFORM THEIR WORK ASSIGNMENTS. CONSTRUCTION DEPARTMENT CONCERN. CI HAS NO FURTHER INFORMATION.	
-85-190-00201 T50238	MP	71106	N	WBN	1 N N N N 2 NA NA NA NA		QTC	POWER STORE'S AUTO-STOCKING SYSTEM IS NOT RELIABLE. THIS COULD PREVENT FULFILLMENT OF TECHNICAL SPECIFICATIONS REQUIREMENTS SINCE ADEQUATE MATERIAL STOCKS ARE NOT MAINTAINED. CI DECLINED TO PROVIDE ADDITIONAL INFORMATION. NO FOLLOW UP REQUIRED.	
-85-382-00101 T50012	MP	71101	N	WBN	1 N N N N 2 NA NA NA NA	IN-85-382-001	QTC	CI ESTIMATES THAT APPROX. 40% OF HARDWARE MATERIAL (PIPE, ANGLE IRON, NUTS, BOLTS ETC.) USED BY STEAMFITTERS IS WASTED. E.G. PIPE HANGERS HAVE BEEN RIPPED OUT & REPLACED 2-5 TIMES. ALSO, IF YOU NEED A 2 FT SECTION OF PIPE YOU GET A 3 FT PIPE. NO SPECIFIC AREAS GIVEN. THE EFFECT OF THIS WASTE IS LOW MORALE AMONG CRAFT (STEAMFITTERS) AND A WASTE OF MONEY. THIS OCCURS IN BOTH UNITS	

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					2	SAF	RELATED	BF				
-85-443-00301 T50034	MC	40508	S	WBN	1	N	N	N	Y	IN-85-443-003	QTC	QA STAINLESS STEEL DOES NOT COME WITH THE HEAT #, ETC., STENCILED/SCRIBE D ON BY THE VENDOR, ONLY IDENTIFIED ON THE BUNDLE. OFTEN THE SS QA PIPE LOSES HT # IDENTIFICATION AND MUST BE DISCARDED. THERE IS A HUGE AMOUNT OF WASTE ATTRIBUTED TO THIS FACT. THE HEAT # IS OFTEN NOT TRANSFERRED DURING CUTTING AND ALSO THE REST MUST BE DISCARDED.
02	MP	71101	S	WBN	2	NA	NA	NA	SR			
-85-447-00201 T50034	MC	40406	S	WBN	1	N	N	N	Y	IN-85-447-002	QTC	ALL STAINLESS STEEL INSTRUMENTATION PIPE 1/2" AND UNDER COMES WITH THE HEAT NUMBER STENCILED ON WITH AN "INK" THAT RUBS OFF. SS PIPE IS STORED OUTSIDE AND FREQUENTLY THE HEAT NUMBER CANNOT BE READ AND THE PIPE MUST BE DISCARDED.
02	MP	71101	S	WBN	2	NA	NA	NA	NO			
-85-454-00301 T50030	MC	40515	S	WBN	1	N	N	N	Y	IN-85-454-003	QTC	BLACK PIPE HAS HEAT NUMBER ON ONE END. IF THIS END IS CUT OFF THE REST OF THE PIPE IS DISCARDED AS HEAT NUMBER IS OFTEN NOT TRANSFERRED
02	MP	71101	S	WBN	2	NA	NA	NA	NO			
-85-533-00801 T50170	MP	71102	N	WBN	1	N	N	N	N		QTC	CRAFT RUN OUT OF MATERIALS AND MUST RUN AROUND SCAVENGING FOR WHAT THEY NEED TO DO THEIR WORK. UNIT 2, "DOM E" LIGHTING WAS TO BE DONE WITH THIN OR THN SINGLE CONDUCTOR CABLE. AN NRC PROHIBITION ON NEW PURCHASES RESULTED IN CRAFT HAVING TO SCAVENGE BECAUSE THERE WAS NOT ANY IN THE WAREHOUSE. CONSTRUCTION DEPT CONCERN. C I HAS NO FURTHER INFORMATION.
					2	NA	NA	NA	NA			
-85-540-00201 T50045	MP	71102	N	WBN	1	N	N	N	N		QTC	THE WELD ROD SHACKS ARE FREQUENTLY CLOSED WHICH CREATES AN INCONVENIENCE AND TIME LOST IF MORE ROD IS NEEDED. OFTEN THE WELD ROD IS BAD AND MUST BE REPLACED.
					2	NA	NA	NA	NA			

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					2	SAF	RELATED	BF				
-85-557-00101 T50049	MP	71102	N	WBN	1	N	N	N	N	IN-85-557-001	QTC	MATERIAL IS CONSTANTLY MOVED FROM ONE STORAGE LOCATION TO ANOTHER, WITH NO REASON GIVEN OR BENEFIT OBTAINED. GENERIC CONCERN- NO FURTHER DETAILS AVAILABLE.
-85-597-00101 T50055	MP	71101	N	WBN	1	N	N	N	N	IN-85-597-001	QTC	THERE HAS BEEN AN EXTREMELY HIGH VOLUME OF WASTE ON THIS SITE DURING THE CONSTRUCTION PHASE, IE STAINLESS STEEL PIPE WITHOUT A HEAT NUMBER OR NOT A GOOD HEAT NUMBER MATERIAL WAS SOLD TO A FIRM IN ALABAMA AT ONE TIME.
-85-597-00201 T50055	MP	71103	S	WBN	1	N	N	N	N	IN-85-597-002	QTC	POOR QUALITY OF MATERIAL TO WORK WITH (AND CREATES A LOT OF WASTE) DUE TO TVA'S POLICY OF ACCEPTING LOWEST BIDDER AND ORDERING FROM FOREIGN COUNTRIES.
	02	MP	71104	S	WBN	1	N	N	N			
-85-597-00401 T50136	MP	71101	N	WBN	1	N	N	N	N	IN-85-597-004	QTC	EXCESSIVE WASTE. CI SAW MANY HANGERS TAKEN TO THE SCRAP YARD, EVEN THOUGH THEY WERE NOT EVIDENTLY DAMAGED OR DEFECTIVE. CI SAYS HANGERS MADE A PILE AS LARGE AS A HOUSE, BUT THAT THEY HAVE ALL BEEN TAKEN AWAY NOW. CONSTRUCTION DEPT. CONCERN. CI HAS NO FURTHER INFORMATION. NO FOLLOW-UP REQUIRED.
-85-627-01601 T50196	MP	71101	N	WBN	1	N	N	N	N	IN-85-627-016	QTC	1983. A LARGE QUANTITY OF STRUCTURES WERE FABRICATED AND WHILE THEY WERE AWAITING INSTALLATION THEY WERE HAULED TO THE SCRAP YARD. NEW STRUCTURES WERE THEN FABRICATED. (NAMES/DETAILS TO THE SPECIFIC CASE ARE KNOWN TO QTC AND WITHHELD TO MAINTAIN CONFIDENTIALITY). CONSTRUCTION DEPT. CONCERN. CI HAS NO FURTHER INFORMATION.

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-85-628-00101 T50060	MP	71101	N	WBN	1 N N N N 2 NA NA NA NA		QTC	TRACKING OF EQUIPMENT AFTER RECEIPT ON SITE THRU INSTALLATION IS INADEQUATE. THE EQUIPMENT IS NOT ACCOUNTED FOR WHEN ISSUED TO CONSTRUCTION, CAUSING REPEATED RE-ORDERS. THIS OCCURRED FROM 1982 TO PRESENT UNIT 1&2. (DETAILS KNOWN TO QTC)	
-85-646-00201 T50062	MP	71101	N	WBN	1 N N N N 2 NA NA NA NA	IN-85-646-002	QTC	THE MAIN WAREHOUSE STORAGE OF MATERIAL INDICATES A REVIEW OF TVA PLANNING/PURCHASING MAY BE REQUIRED. GENERAL MATERIAL (NUTS/BOLTS) IN PLENTIFUL SUPPLY CONTINUES TO BE ORDERED. PLANT IS OFTEN KEPT PAST IT'S SHELF LIFE AND THEN SOLD AT AUCTION.	
-85-683-00201 T50068	MP	71102	N	WBN	1 N N N N 2 NA NA NA NA	IN-85-683-002	QTC	ORDERING AND DISTRIBUTION OF MATERIAL USED DAILY ONSITE IS DONE VERY BADLY. OFTEN MATERIAL WHICH IS KNOWN IN ADVANCE TO BE NEEDED IS NOT ORDERED. WHEN THE WAREHOUSE HAS A LIMITED SUPPLY OF SOME MATERIAL, ANYONE CAN CHECK OUT ALL THE SUPPLY. IF THERE ARE ONLY 12 SAMBLADES AVAILABLE, ONE SHOP (NOT SPECIFIED) WILL TAKE ALL 12. C/I HAS NO MORE INFORMATION.	
-85-683-00301 T50068	MP	71102	N	WBN	1 N N N N 2 NA NA NA NA	IN-85-683-003	QTC	OFTEN WHEN THE WAREHOUSE NEEDS MATERIAL TRANSFERRED FOR CRAFT USE, IT CAN'T BE DONE BECAUSE "FURNITURE MUST BE MOVED". C/I HAS NO MORE DETAILS.	
-85-687-00101 T50069	MP	71102	N	WBN	1 N N N N 2 NA NA NA NA	IN-85-687-001	QTC	WHEN THE WAREHOUSE ORDERS TOOLS/MATERIAL WHICH IS USED EVERYDAY, IT SOME TIMES TAKES MONTHS TO RECEIVE MATERIAL. EXAMPLES: 1) OCT. 1984 - ORDERED 3/8" DRIVE SOCKETS (STD. SIZES - 25 EA.) RECEIVED MAY 1985. 2) DEC. 1984 - ORDERED "PHILIPS" AIR-OPERATED RED-HEAD DRIVERS (4SIZES - 50 EA.) - NOT RECEIVED TO-DATE.	

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-85-720-00101 T50105	MP	71101	N	WBN	1 N N N N 2 NA NA NA NA		QTC	APPROXIMATELY 5000-6000 OXYGEN ACETY LENE BOTTLES ARE BURIED ABOUT 8' DEE P ON SITE AT WATTS BAR. CI DECLINED TO BE CONTACTED FOR ADDITIONAL INFO RMATION.	
-85-725-01301 T50159	IH	60300	S	WBN	1 2		QTC	NEEDLESS WASTE AND MISMANAGEMENT: I N ABOUT 1981, TVA REPRESENTATIVE (KH OWN) PLACED AN ORDER FOR \$84,000 WOR TH OF ANGLE GRINDER WHEEL GUARDS. A FTER THEY CAME IN, TVA SOLD THEM AS "SCRAP METAL". NOW THERE AREN'T ENO UGH GUARDS, AND CRAFT GET WRITTEN UP FOR USING GRINDERS WITHOUT WHEEL GU ARDS. NOTHING WAS DONE TO MANAGERS WHO DISCARDED THE WHEEL GUARDS. CON STRUCTION DEPT CONCERN. CI HAS NO M ORE INFORMATION. NO FOLLOWUP REQUIR ED.	
02	MP	71101	S	WBN	1 N N N N 2 NA NA NA NA				
-85-757-00401 T50074	MP	71102	N	WBN	1 N N N N 2 NA NA NA NA		QTC	CRAFT DO NOT GET PROPER MATERIALS, O R DO NOT GET THEM ON TIME, TO WORK M ITH. NO MORE INFORMATION AVAILABLE. NO FOLLOW-UP.	
-85-763-00401 T50072	MP	71101	N	WBN	1 N N N N 2 NA NA NA NA	IN-85-763-004	QTC	PROBLEM GETTING RIGHT MATERIAL OUT O F WAREHOUSE. LACK OF STUD BOLTS, MU ST BE MADE OUT OF RAW STOCK. WAREHO USE PERSONNEL NOT FAMILIAR WITH STOC K LIST AND REORDER PROCEDURES. A TO TAL LACK OF KNOWLEDGE OF WHERE MATER IAL IS LOCATED	
-85-766-00201 T50248	MP	71102	N	WBN	1 N N N N 2 NA NA NA NA		QTC	THE WAREHOUSE CANNOT SEEM TO KEEP ST ANDARD MATERIAL IN STOCK. SEVERAL J OBS HAVE BEEN DELAYED OR STOPPED DUE TO LACK OF BASIC WORKING MATERIALS. CI DECLINED TO PROVIDE FURTHER INF ORMATION. CONSTRUCTION DEPARTMENT C ONCERN. NO FOLLOW UP REQUIRED.	

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-85-780-00201 T50081	MP	71101	N	WBN	1 N N N N 2 NA NA NA NA	IN-85-780-002	QTC	APPROXIMATELY 3 MONTHS AGO (MARCH 19 85) TWO TRUCKS LOADED WITH NEW CONDUIT REPORTED TO WORK-SITE. THE ELECTRICAL ENGINEER IN CHARGE STATED IT (CONDUIT) WAS THE WRONG SIZE. THE TRUCK DRIVER WAS TOLD TO TAKE THE CONDUIT TO THE SCRAPYARD. THIS CONDUIT WAS STRAPPED TO THE PALLETS. IT WAS DISCARDED AS SCRAP. NAMES KNOWN TO QTC. NO FURTHER DETAILS.	
-85-800-00201 T50071	MP	71101	N	WBN	1 N N N N 2 NA NA NA NA	IN-85-800-002	QTC	A HUGE AMOUNT OF WASTE OF MATERIALS ON SITE. ONE EXAMPLE IS THE DUMPING OF SEVERAL YARDS OF CONCRETE READY TO POUR RATHER THAN AUTHORIZE A PERSON 30 MINUTES OF OVERTIME. (NAMES/DETAILS KNOWN TO QTC AND RELEASE OF INFORMATION WOULD JEOPARDIZE C/I'S CONFIDENTIALITY.) NO MORE INFORMATION AVAILABLE.	
-85-812-00101 T50083	MP	71102	N	WBN	1 N N N N 2 NA NA NA NA	IN-85-812-001	QTC	LACK OF COORDINATION AND COOPERATION ON MANAGEMENT OF DIFFERENT DIVISIONS (NUC. POWER, NSB, CONST.) TO KEEP EMPLOYEES SUPPLIED WITH THE NEEDED EQUIPMENT AND DRINKING WATER. POWER STORES AND POWER TOOL ROOM DOESN'T STOCK THE NEEDED SUPPLIES TO DO A SAFE JOB. THIS OCCURS IN RB #1 DAILY. NO FURTHER DETAILS AVAILABLE.	
-85-821-00901 T50198	CO	11100	S	WBN	1 N N N Y 2 NA NA NA NO	IN-85-821-009	QTC	EXTREMELY LARGE NUMBERS OF HANGERS THAT HAVE NEVER BEEN INSTALLED HAVE BEEN THROWN AWAY IN THE MAIN SCRAP YARD. CONSTRUCTION DEPT. CONCERN. CI HAS NO ADDITIONAL INFORMATION.	
	02	MP	71101	S	WBN	1 N N N N 2 NA NA NA NA			

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CONCERN NUMBER	CAT	SUB CAT	S H R PLT D LOC	1 REPORT APPL				HISTORICAL REPORT	CONCERN ORIGIN	CONCERN DESCRIPTION	REF. SECTION CAT - MP SUBCAT - 711
				2	SAF	RELATED	DF				
-85-821-01001 T50198	MP	71103	N WBN	1 N N N N	2 NA NA NA NA			IN-85-821-010	QTC	TVA HAS AN OFFICE IN SWITZERLAND TO BUY MATERIALS IN EUROPE THAT ARE CHEAPER IN CHATTANOOGA. CONSTRUCTION DEPT. CONCERN. CI HAS NO ADDITIONAL INFORMATION. (DETAILS ARE KNOWN TO QTC AND ARE WITHHELD TO MAINTAIN CONFIDENTIALITY).	
-85-925-00101 T50092	MP	71101	N WBN	1 N N N N	2 NA NA NA NA				QTC	POOR MANAGEMENT CONTRIBUTES TO THE WASTE OF MATERIAL. ON A DAILY BASIS, UNUSED MATERIAL (PIPE, VALVES) IS DISPOSED OF AT THE WBNP SCRAP DUMP. MANAGEMENT IS AWARE BUT REFUSES TO CHANGE OR IMPROVE THE WASTE CONTROL. C/I HAD NO FURTHER INFORMATION. NO FOLLOW UP REQUIRED.	
-85-964-00101 T50179	MP	71101	N WBN	1 N N N N	2 NA NA NA NA			IN-85-964-001	QTC	TVA PERSONNEL WASTE EXPENDABLE ITEMS, SUCH AS FLASHLIGHT BATTERIES, GRINDING WHEELS, SUPERGLUE, AND PENCIL GRINDERS BECAUSE THESE ITEMS ARE NOT ADEQUATELY CONTROLLED. C/I HAS NO FURTHER DETAILS. CONSTRUCTION DEPARTMENT CONCERN.	
-86-234-00301 T50155	MP	71101	N WBN	1 N N N N	2 NA NA NA NA			IN-86-234-003	QTC	TVA PERSONNEL WASTE MONEY BY WASTING MATERIAL AND SUPPLIES, E.G. SECRETARIES MAKE A MISTAKE ON TYPING AND WASTE PAPER. PEOPLE CARELESSLY MAKE TOO MANY PHOTOCOPIES. CI HAS NO FURTHER INFORMATION. CONSTR. ADVISOR CONCERN. NO FOLLOWUP REQUIRED.	

CONCERNS ARE GROUPED BY FIRST 3 DIGITS OF SUBCATEGORY NUMBER.



REFERENCE - ECPS132J-ECPS132C
 FREQUENCY - REQUEST
 - ISSS - RNM

TENNESSEE VALLEY AUTHORITY
 OFFICE OF NUCLEAR POWER
 EMPLOYEE CONCERN PROGRAM SYSTEM (ECPS)
 EMPLOYEE CONCERN INFORMATION BY CATEGORY/SUBCATEGORY
 SUBCATEGORY: 711 PURCHASING PROCESS IS INEFFICIENT

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CATEGORY: MP MGT. & PERS. ISSUES

CONCERN NUMBER	CAT	SUB CAT	S H R D	PLT LOC	1 REPORT APPL 2 SAF RELATED BF BL SQ MB	HISTORICAL REPORT	CONCERN ORIGIN	CONCERN DESCRIPTION	REF. SECTION # CAT - MP SUBCAT - 711
-86-236-00101 T50262	MP	71105	N	WBN	1 N N N N 2 NA NA NA NA		QTC	THE PURCHASING PROCESS AT WATTS BAR IS NOT EFFICIENT, COST EFFECTIVE OR SCHEDULE SENSITIVE. CI EXPRESSED TH AT TVA PAYS "JACKED UP" PRICES FOR P ARTS FROM COMPONENT MANUFACTURERS, W HO GET THE PARTS FROM OTHER SUPPLIER S. CI FEELS THAT TVA SHOULD DEAL WI TH THE PARTS SUPPLIERS DIRECTLY. AD DITIONALLY, TVA ORDERS TO OTHER GOVE RNMENT AGENCY SUPPLIERS FOR COMMON I TEMS ARE NOT DELIVERED IN A TIMELY M ANNER. DETAILS KNOWN TO QTC, WITHHE LD DUE TO CONFIDENTIALITY. NO FURTH ER INFORMATION MAY BE RELEASED.	
-86-287-00301 T50178	MP	71101	N	WBN	1 N N N N 2 NA NA NA NA		QTC	CI IS CONCERNED ABOUT THE DUMPING OF BRAND NEW MATERIALS SUCH AS REELS O F WIRES, TRANSFORMERS, ELECTRICAL SW ITCH BOXES NEAR YARD 4 AND COVERING THE HOLE IN 1984. DETAILS KNOWN TO QTC, WITHHELD DUE TO CONFIDENTIALITY . CONSTRUCTION DEPT. CONCERN. CI H AS NO FURTHER INFORMATION.	
86-001 01	MP	71101	N	SQN	1 N N N N 2 NA NA NA NA		OECP	MANY MATERIALS WERE THROWN AWAY I.E. STAINLESS STEEL PIPE, VALVES (DURIN G 1977-1984) CONSTRUCTION DEPT. CONC ERN.	
-85-004-00101 T50211	MP	71101	N	SQN	1 N N N N 2 NA NA NA NA	00-85-004-001	QTC	SEQUOYAH: CI WAS TOLD BY A FORMER TV A EMPLOYEE THAT LARGE, EXPENSIVE ELE CTRICAL MOTORS WERE REMOVED AND SCRA PPED (DESTROYED). DETAILS KNOWN TO QTC, WITHHELD DUE TO CONFIDENTIALITY . CI HAS NO FURTHER INFORMATION.	

CONCERNS ARE GROUPED BY FIRST 3 DIGITS OF SUBCATEGORY NUMBER.



REFERENCE - ECPS132J-ECPS132C
 FREQUENCY - REQUEST
 - ISSS - RWM

TENNESSEE VALLEY AUTHORITY
 OFFICE OF NUCLEAR POWER
 EMPLOYEE CONCERN PROGRAM SYSTEM (ECPS)
 EMPLOYEE CONCERN INFORMATION BY CATEGORY/SUBCATEGORY
 SUBCATEGORY: 711 IMPROPER TO BUY FOREIGN MATERIALS

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CATEGORY: MP MGT. & PERS. ISSUES

CONCERN NUMBER	CAT	SUB CAT	S R PLT D LOC	1 REPORT APPL				HISTORICAL REPORT	CONCERN ORIGIN	CONCERN DESCRIPTION	REF. SECTION # CAT - MP SUBCAT - 711
				2	SAF	RELATED	BF				
-85-005-00101 T50216	MP	71103	N WBN	1	N	N	N	N	QTC	IT WAS REPORTED IN 1980 OR 81 BY THE CHATTANOOGA NEWS FREE PRESS THAT TV A MAINTAINED AN OFFICE IN SWITZERLAND AT A YEARLY COST OF \$340,000.00. TVA SUPPOSEDLY HAD 5 INSPECTORS ASSIGNED OVERSEAS TO INSPECT MATERIALS PURCHASED IN EUROPE. THESE MATERIALS COULD HAVE BEEN BOUGHT CHEAPER IN AMERICA. JEFF POWELL IS THE POLITICAL WRITER THAT AUTHORED THE ARTICLE. CI HAS NO FURTHER INFORMATION.	
-85-002-01601 T50157	MP	71101	N WBN	1	N	N	N	N	QTC	THE REWARD/INCENTIVE PROGRAM FOR RECOVERY OF SCRAP VIA EMPLOYEE SUGGESTION. SERVES ONLY TO REWARD THOSE PERSONNEL WHO CAUSE SCRAP THROUGH INCOMPETENT WORK. UNIT 1 AND 2. NAMES OF SUPERVISORS KNOWN TO QTC. ANY FURTHER INFORMATION WOULD COMPROMISE CONFIDENTIALITY.	
-85-003-01701 T50106	MP	71101	N WBN	1	N	N	N	N	PH-85-003-017 QTC	TVA REPLACES HARDWARE ITEMS RATHER THAN REPAIRING THEM ADDING SUBSTANTIALLY TO THE COST OVER-RUNS. CI HAS NO MORE INFORMATION AVAILABLE NO FOLLOW UP REQUIRED	
M-86-004-01401 T50264	MP	71101	N SQN	1	N	N	N	N	QTC	VARIOUS MATERIALS WERE BOUGHT UNNECESSARILY AND/OR AT A UNIT PRICE THAT EXCEEDS THE VENDOR LIST PRICE, E.G., SOLENOID COVERS AT \$132.00 WITH A VENDOR LIST COST OF \$58.00 TO 70.00 AND NEVER USED, CARPET FOR ONE OFFICE WAS \$40,000.00 PLUS AND DID NOT INCLUDE A PAD. NUCLEAR POWER CONCERN. CI HAS NO FURTHER INFORMATION.	

CONCERNS ARE GROUPED BY FIRST 3 DIGITS OF SUBCATEGORY NUMBER.

REFERENCE - ECPS132J-ECPS132C
 FREQUENCY - REQUEST
 - ISSS - RWM

TENNESSEE VALLEY AUTHORITY
 OFFICE OF NUCLEAR POWER
 EMPLOYEE CONCERN PROGRAM SYSTEM (ECPS)
 EMPLOYEE CONCERN INFORMATION BY CATEGORY/SUBCATEGORY
 SUBCATEGORY: 711 - MATERIAL IS MISUSED OR UNDERUSED

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CATEGORY: MP MGT. & PERS. ISSUES

CONCERN NUMBER	CAT	SUB CAT.	S H R D	PLT LOC	1 REPORT APPL					HISTORICAL REPORT	CONCERN ORIGIN	CONCERN DESCRIPTION	REF. SECTION CAT - MP SUBCAT - 711
					2	SAF	RELATED	BF	BL				
'85-012-00401 T50229	MP	71101	N	WBN	1	N	N	N	N		QTC	EARLY 1984 A LARGE QUANTITY OF NEW DYNA FILES WERE REMOVED FROM STORAGE FOR ON SITE PUBLIC AUCTION AS WELL AS MANY ADJUSTABLE WRENCHES AND SOME WELDING EQUIPMENT. THE DYNA FILES WERE NEEDED AT THE TIME BY TVA EMPLOYEES TO PERFORM THEIR WORK. CONSTRUCTION DEPT. CONCERN. CI HAS NO FURTHER INFORMATION. NO FOLLOW UP REQUIRED.	
'86-024-00101 T50277	MP	71101	N	WBN	1	N	N	N	N		QTC	WIDOWS CREEK - TVA HAS BEEN WASTING MATERIAL FOR YEARS.	
'85-001-00101 T50066	MP	71102	N	WBN	1	N	N	N	N	WI-85-001-001	QTC	A HIGHER PRIORITY IS ASSIGNED TO MOVING FURNITURE THAN TO PROVIDING CONSUMABLES TO THE CRAFT. DETAILS KNOWN TO QTC.	
'85-091-00301 T50197	MP	71101	N	WBN	1	N	N	N	N	WI-85-091-003	QTC	CI REPORTED THAT LARGE QUANTITIES OF HANGERS WERE PREFABRICATED ON SITE BEFORE THE PLANT WAS ADVANCED TO THE POINT OF KNOWING FOR SURE WHAT WOULD BE ACTUALLY NEEDED. AS A RESULT OF THIS PREMATURE FABRICATION OF HANGERS, 50% OR MORE OF THESE HANGERS HAD TO BE MODIFIED CAUSING ENORMOUS WASTE/SCRAP. CI HAS NO FURTHER INFORMATION. CONSTRUCTION DEPT. CONCERN.	
'85-091-01401 T50197	MC	40307	S	WBN	1	Y	Y	Y	Y	I-85-713-WBN	QTC	TVA HAS VERY POOR CONTROL OVER SNUBBERS IN THE MANNER IN WHICH THEY ARE STORED AND HANDLED. THESE EXPENSIVE SNUBBERS ARE FREQUENTLY SCRAPPED AND LATER RETRIEVED FROM THE SCRAP YARD FOR INSTALLATION. CI HAS NO FURTHER INFORMATION. CONSTRUCTION DEPT. CONCERN.	
	02	MC	40402	S	WBN	1	N	N	N	Y			
	03	MP	71101	S	WBN	1	N	N	N	N			
					2	NA	NA	NA	NA				

CONCERNS ARE GROUPED BY FIRST 3 DIGITS OF SUBCATEGORY NUMBER.



REFERENCE - ECPS132J-ECPS132C
 FREQUENCY - REQUEST
 - ISSS - RNM

TENNESSEE VALLEY AUTHORITY
 OFFICE OF NUCLEAR POWER
 EMPLOYEE CONCERN PROGRAM SYSTEM (ECPS)
 EMPLOYEE CONCERN INFORMATION BY CATEGORY/SUBCATEGORY
 SUBCATEGORY: 711 MATERIAL NOT AVAILABLE WHEN NEEDED

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CATEGORY: MP MGT. & PERS. ISSUES

CONCERN NUMBER	CAT	SUB CAT	S H R D	PLT LOC	1 REPORT APPL				HISTORICAL REPORT	CONCERN ORIGIN	CONCERN DESCRIPTION	REF. SECTION # CAT - MP SUBCAT - 711
					2	SAF	RELATED	BF				
-85-091-01901 T50196	MP	71102	N	WBN	1	N	N	N	N	WI-85-091-019	QTC	FREQUENTLY THERE IS A SHORTAGE OF COMMON STANDARD MATERIAL. CI HAS NO FURTHER INFORMATION. CONSTRUCTION DEPT. CONCERN.
-85-096-00301 T50269	MP	71101	N	SQN	1	N	N	N	N		QTC	SEQUOYAH- SUPERVISION DISREGARDED IN INFORMATION REGARDING IMPROPER SCRAPPING OF MATERIAL. DETAILS KNOWN TO QTC, WITHHELD DUE TO CONFIDENTIALITY. NO FURTHER INFORMATION MAY BE RELEASED. CONSTRUCTION DEPARTMENT CONCERN. NOTE - SUBSEQUENT TO INITIAL INTERVIEW, CI CONTACTED QTC AND EXPRESSED A DESIRE THAT THIS CONCERN NOT BE INVESTIGATED. THIS CONCERN IS THEREFORE ISSUED AS CLOSED PER CI REQUEST
-85-120-00101 T50191	MP	71101	N	SQN	1	N	N	N	N	XX-85-120-001	QTC	CI REPORTED THERE HAD BEEN HUGE AMOUNTS OF STAINLESS STEEL PIPE SCRAPPED UNNECESSARILY AT SEQUOYAH, E.G. A PILE OF 55 PIPE SCRAP MEASURING 100 FEET ACROSS AND 30 FEET HIGH. SINCE THIS SCRAP WAS PERIODICALLY SOLD TO SCRAP DEALERS THE ABOVE SCRAP PILE REPRESENTED A 3-4 MONTH ACCUMULATION. CI HAS NO FURTHER INFORMATION. CONSTRUCTION DEPT. CONCERN.
-85-120-00401 T50191	MP	71102	N	SQN	1	N	N	N	N	XX-85-120-004	QTC	SEQUOYAH: MANAGEMENT FREQUENTLY DIRECTED CRAFT TO PERFORM WORK WHEN THE REQUIRED MATERIAL WAS NOT ON THE SITE. ALWAYS A SHORTAGE OF COMMON STANDARD MATERIALS. CI HAS NO FURTHER INFORMATION. CONSTRUCTION DEPT. CONCERN.

CONCERNS ARE GROUPED BY FIRST 3 DIGITS OF SUBCATEGORY NUMBER.

REFERENCE - ECPS132J-ECPS132C
 FREQUENCY - REQUEST
 - ISSS - RWM

TENNESSEE VALLEY AUTHORITY
 OFFICE OF NUCLEAR POWER
 EMPLOYEE CONCERN PROGRAM SYSTEM (ECPS)
 EMPLOYEE CONCERN INFORMATION BY CATEGORY/SUBCATEGORY
 SUBCATEGORY: 711 MATERIAL IS MISUSED OR UNDERUSED

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CATEGORY: MP MGT. & PERS. ISSUES

CONCERN NUMBER	CAT	SUB CAT	S H R D	PLT LOC	1 REPORT APPL				HISTORICAL REPORT	CONCERN ORIGIN	CONCERN DESCRIPTION	REF. SECTION # CAT - MP SUBCAT - 711
					2	SAF	RELATED	BF				
-85-121-00101 T50191	MP	71101	N	WBH	1	N	N	N	N	XX-85-121-001	QTC	HARTSVILLE. TVA DESTROYED AND THREW AWAY GOOD EQUIPMENT, WELDING LEADS, OFFICE FURNITURE FROM TRAILERS, TOILETS, AND SINKS TO MAKE OFFICE SPACE AVAILABLE. ON SIDE A OF SAND BLAST SHOP UNDER THE BLACK SAND. 1984. CONSTRUCTION DEPT. CONCERN. CI HAS NO ADDITIONAL INFORMATION.
-85-123-00201 T50204	MP	71101	N	SQN	1	N	N	N	N	XX-85-123-002	QTC	SEQUOYAH: MANY MATERIALS WERE THROWN AWAY. I.E... STAINLESS STEEL PIPE, VALVES. (DURING 1977-1984) CONSTRUCTION DEPT. CONCERN. CI HAS NO ADDITIONAL INFORMATION.
-85-124-00101 T50205	MP	71101	S	SQN	1	N	N	N	N	XX-85-124-001	QTC	SEVERAL 55 GALLON BARRELS OF UNUSED WELD RODS WERE BURIED ON A HILL NEXT TO THE CEMETARY AT SEQUOYAH. AS SOON AS THE BARRELS WERE DUMPED, THEY HAD A DOZER COVER THEM OVER. 1980, 1981. CONSTRUCTION DEPT. CONCERN. CI HAS NO ADDITIONAL INFORMATION. - GENERIC CONCERN- (SQN ISSUES ADDRESS ED IN RPT WP-23-SQN R0)
	02	WE 50323	S	SQN	1	N	N	Y	N			
			2		2	NA	NA	NO	NA			

70 CONCERNS FOR CATEGORY MP SUBCATEGORY 711

CONCERNS ARE GROUPED BY FIRST 3 DIGITS OF SUBCATEGORY NUMBER.



ATTACHMENT B

MATERIALS

List of Concerns by Element/Issue

This Subcategory Report (71100) addresses six issues raised by 70 concerns. The issues are grouped into three elements.

Materials Waste

71101 - Material is Misused or Underused

EX-85-031-001	IN-85-720-001
EX-85-075-001	IN-85-725-013
EX-85-094-004	IN-85-763-004
EX-85-098-002	IN-85-780-002
EX-85-101-001	IN-85-800-002
EX-85-102-001	IN-85-821-009
EX-85-104-001	IN-85-925-001
EX-85-105-001	IN-85-964-001
EX-85-108-001	IN-86-234-003
EX-85-110-002	IN-86-287-003
EX-85-132-001	MLC-86-001
EX-85-138-001	OO-85-004-001
EX-85-153-001	PH-85-002-016
EX-85-171-002	PH-85-003-017
IN-85-049-X06	SQM-86-004-014
IN-85-382-001	WBP-85-012-004
IN-85-443-003	WBP-86-024-001
IN-85-447-002	WI-85-091-003
IN-85-454-003	WI-85-091-014
IN-85-597-001	XX-85-096-003
IN-85-597-004	XX-85-120-001
IN-85-627-016	XX-85-121-001
IN-85-628-001	XX-85-123-002
IN-85-646-002	XX-85-124-001

Materials Availability

71102 - Material Not Available When Needed

EX-85-100-002	IN-85-683-003
EX-85-118-003	IN-85-687-001
IN-85-116-002	IN-85-757-004
IN-85-180-002	IN-85-766-002
IN-85-533-008	IN-85-812-001
IN-85-540-002	WI-85-001-001
IN-85-557-001	WI-85-091-019
IN-85-683-002	XX-85-120-004

ATTACHMENT B (Continued)

Miscellaneous

71103 - Improper to Buy Foreign Materials

IN-85-597-002*

IN-85-821-010

OW-85-005-001

71104 - Accepting Low Bid Creates Waste

IN-85-597-002*

71105 - Purchasing Process Is Inefficient

IN-86-236-001

71106 - Stocking and Material Delivery Are Inefficient

EX-85-044-001

IN-85-190-002

*Concerns addressed in more than one issue

