

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

5N 157B Lookout Place

February 13, 1986

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Denton:

Your letter to W. F. Willis dated September 26, 1985 requested copies of investigation reports and related documents dealing with potentially safety-related employee concerns on TVA's nuclear plants. Copies of the requested information as outlined in TVA's October 7, 1985 letter are enclosed and cover the period of February 6, 1986 through February 12, 1986. TVA has previously submitted copies of the requested information through February 5, 1986. We are also enclosing computer summaries of the information which we have transmitted to date.

If you have questions concerning the material transmitted, please telephone R. F. Campbell at FTS 858-4892.

Very truly yours,

TENNESSEE VALLEY AUTHORITY


R. L. Gridley
Manager of Licensing

Enclosures

cc (Enclosures):

Mr. James M. Taylor, Director
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dr. J. Nelson Grace
Regional Administrator
U.S. Nuclear Regulatory Commission, Region II
101 Marietta Street, Suite 3100
Atlanta, Georgia 30323

Mr. Braj K. Singh, Project Manager
Office of Nuclear Reactor Regulation
Phillips Building (MS-R-128)
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

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TENNESSEE VALLEY AUTHORITY
WATTS BAR EMPLOYEE CONCERN PROGRAM
NUCLEAR REGULATORY COMMISSION
WEEKLY K-FORM LISTING

QTC NUMBER	SUBJECT	KEY WORD	KEY WORD	MAY 16 LETTER	#
IN-85-103-002	TEMP VARIATIONS	HANGER	DESIGN	--	1
IN-85-933-004	TRN PRG DEGREED ENG	OPERATIONS	TRAINING	--	1
IN-85-933-007	MANG SUP PREV IDNT P	QA	EFFECT	--	1
IN-85-933-008	ROTATING TRAINERS	OPERATIONS	TRAINING	--	1
IN-85-933-010	SEN REACTOR OPERATOR	OPERATIONS	TRAINING	--	1
IN-85-933-013	"QUICK FIXES"	QA	EFFECT	--	1
IN-85-933-016	LICENSED SEN REC OPT	OPERATIONS	TRAINING	--	1
OO-85-005-011	DUMP RADAV MATERIAL	RADIOATION	CONTROL	--	1
SQM-6-004-013	SQN/THREAT JOB ELIMT	QA	EFFECT	--	1
SQM-6-008-001	SQN/WELD PI AC ROM#5	WELDING	WORKMANSHI	--	1
SQM-6-011-002	SQN/SHUT DOWN DOC CT	QA	DOCUMENT	--	1
WBP-6-020-001	MAN-HOURS INVESTIG	QA	EFFECT	--	1
WBP-6-020-002	REWRITTEN CONCERNS	QA	EFFECT	--	1
WBP-6-020-003	DISCRET SAF REVIEW	QA	EFFECT	--	1
WI-85-046-020	RANGE SET SNUB, NVT1	HANGER	INSPECTION	--	1
XX-85-040-002	BFN/DEPT IDQ PRF PNT	DOCUMENT	CONTROL	--	1
XX-85-040-003	BFN/VIST PROT AREA	OPERATIONS	CONTROL	--	1
XX-85-040-004	BFN/DOC CHECK OUT RD	DOCUMENT	CONTROL	--	1
*** Total ***					18

EMPLOYEE CONCERN ASSIGNMENT REQUEST

TO: Director - NSRS

TRANSMITTAL NUMBER T50263

ERT has received the Employee concern identified below, and has assigned the indicated category and priority:

Priority: 1

Concern #IN-85-103-002

2-75-267-2613

Category: 11

Confidentiality: ___ Yes ___ No (I&H)

Supervisor Notified: X Yes ___ No Nuclear Safety Related YES

Concern: IN SEVERAL CASES, TEMPERATURE VARIATIONS WERE NOT CONSIDERED IN PIPE/HANGER CALCULATIONS FOR THERMAL STRESS. NO FURTHER INFORMATION AVAILABLE IN FILE. CONSTRUCTION DEPARTMENT CONCERN.

Temp Variations

Oh Jhus

Manager, ERT *2/5/86*
Date

NSRS has assigned responsibility for investigation of the above concern to:

ERT _____

NSRS/ERT _____

NSRS ✓ _____

OTHERS (SPECIFY) _____

*Harvey
Lewin*

Barry J. Dwyer

NSRS *2-6-86*
Date

EMPLOYEE CONCERN ASSIGNMENT REQUEST

TO: Director - NSRS

TRANSMITTAL NUMBER T50265

ERT has received the Employee concern identified below, and has assigned the indicated category and priority:

Priority: 1

Concern #IN-85-933-004

I-P, -FC: W/A

Category: 7

Confidentiality: ___Yes___No(I&H)

Supervisor Notified: ___Yes_X___No Nuclear Safety Related_YES_

Concern: TVA'S TRAINING PROGRAM FOR THE DEGREEED ENGINEERS WHO WILL BE LICENSED AS SENIOR REACTOR OPERATORS HAS THEM STANDING AROUND WATCHING INCONSEQUENTIAL THINGS (SUCH AS CHEM LAB ACTIVITIES) RATHER THAN LEARNING BY DOING (E.G., THESE TRAINEES ARE NOT BEING TAUGHT HOW TO START AND EXERCISE LOCAL CONTROL OVER MOTORS AND VALVES, AND ARE NOT REALLY LEARNING HOW THE PLANT'S SYSTEMS REALLY OPERATE). CX HAS NO FURTHER INFORMATION. NUCLEAR POWER CONCERN.

TIP #1: C20 303

DA Shue 2/15/86
manager, ERT Date

NSRS has assigned responsibility for investigation of the above concern to:

ERT _____

NSRS/ERT _____

NSRS _____

OTHERS (SPECIFY) _____

Operational Training

Russell 2-6-86
NSRS Date

EMPLOYEE CONCERN ASSIGNMENT REQUEST

TO: Director - NSRS

TRANSMITTAL NUMBER T50265

ERT has received the Employee concern identified below, and has assigned the indicated category and priority:

Priority: 1

Concern #IN-85-933-007

Category: 53

Confidentiality: Yes ___ No (I&H)

Supervisor Notified: ___ Yes X ___ No Nuclear Safety Related YES

Concern: TVA MANAGERS AND SUPERVISORS HAVE PREVENTED EMPLOYEES FROM IDENTIFYING PROBLEMS WITH NUCLEAR POWER OPERATIONS TO ENSURE APPROPRIATE INVESTIGATION AND CORRECTIVE ACTION. DETAILS KNOWN TO OTC; WITHHELD TO MAINTAIN CONFIDENTIALITY. NO FURTHER INFORMATION MAY BE RELEASED. NUCLEAR POWER CONCERN.

[Handwritten note]

Ch. Thero 7/5/86
Manager, ERT Date

NSRS has assigned responsibility for investigation of the above concern to:

ERT _____

NSRS/ERT _____

NSRS ✓ _____

OTHERS (SPECIFY) _____

SA effort

Richard P. ... 2-6-86
NSRS Date

EMPLOYEE CONCERN ASSIGNMENT REQUEST

TO: Director - NSRS

TRANSMITTAL NUMBER T50265

ERT has received the Employee concern identified below, and has assigned the indicated category and priority:

Priority: 1

Concern #IN-85-933-008

I-75-227-007

Category: 7

Confidentiality: ___Yes___No(I&H)

Supervisor Notified: ___Yes___X_No Nuclear Safety Related YES_

Concern: TVA HURTS OPERATOR TRAINING PROGRAMS BY ROTATING TRAINERS. TRAINERS ARE ASSIGNED ARBITRARILY, AND SOME OF THOSE ASSIGNED ARE EITHER UNWILLING OR UNABLE TO CONDUCT EFFECTIVE TRAINING. INADEQUACIES IN ONGOING TRAINING WILL AFFECT TVA'S ABILITY TO SAFELY OPERATE AND SHUT DOWN THEIR PLANTS, AND THIS WILL ENDANGER THE PUBLIC. DETAILS KNOWN TO QTC; WITHHELD TO MAINTAIN CONFIDENTIALITY. NO FURTHER INFORMATION MAY BE RELEASED. NUCLEAR POWER CONCERN.

FOR THE DIRECTOR

John P. ... 2/5/86
Manager, ERT Date

NSRS has assigned responsibility for investigation of the above concern to:

ERT _____

NSRS/ERT _____

NSRS / _____

OTHERS (SPECIFY) _____

Operations Training

Richard ... 2-6-86
NSRS Date

EMPLOYEE CONCERN ASSIGNMENT REQUEST

TO: Director - NSRS

TRANSMITTAL NUMBER T50265

ERT has received the Employee concern identified below, and has assigned the indicated category and priority:

Priority: 1

Concern #IN-85-933-010

Category: 7

Confidentiality: ___Yes___No(I&H)

Supervisor notified: ___Yes_X___No Nuclear Safety Related YES

Concern: TVA SHOULD CONTINUE AND EXPAND ITS ALREADY ESTABLISHED PROGRAM OF HAVING EXPERIENCED OPERATIONS PERSONNEL GET COLLEGE DEGREES TO BE LICENSED AS SENIOR REACTOR OPERATORS RATHER THAN IMPLEMENTING ITS MORE RECENT PLAN OF MAKING SRO'S OUT OF DEGREED ENGINEERS WHO WILL HAVE NO ACTUAL HANDS-ON PLANT OPERATING EXPERIENCE. DETAILS KNOWN TO QTC; WITHHELD TO MAINTAIN CONFIDENTIALITY. NO FURTHER INFORMATION MAY BE RELEASED. NUCLEAR POWER CONCERN.

2/15/86

OT Harris 2/15/86
Manager, ERT Date

NSRS has assigned responsibility for investigation of the above concern to:

ERT _____

NSRS/ERT _____

NSRS refer to IN-85-933-007

OTHERS (SPECIFY) _____

Operations
Training

Richard D. ... 2-17-86
NSRS Date

PSC

EMPLOYEE CONCERN ASSIGNMENT REQUEST

TO: Director - NSRS

TRANSMITTAL NUMBER T50265

ERT has received the Employee concern identified below, and has assigned the indicated category and priority:

Priority: 1

Concern #IN-85-933-013

Category: 53

Confidentiality: Yes ___ No (I&H)

Supervisor Notified: ___ Yes X ___ No Nuclear Safety Related YES

Concern: TVA PROGRAMMATICALLY USES "QUICK FIXES" THAT DO NOT PRODUCE THE REQUIRED RESULT AND ONLY MAKE THE PROBLEMS APPEAR TO GO AWAY. BUT DOES NOT ACTUALLY TAKE EFFECTIVE CORRECTIVE ACTION. DETAILS KNOWN TO QTC: WITHHELD TO MAINTAIN CONFIDENTIALITY. NO FURTHER INFORMATION MAY BE RELEASED. NUCLEAR POWER CONCERN.

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O. J. Shaw 2/3/86
Manager, ERT Date

NSRS has assigned responsibility for investigation of the above concern to:

ERT _____

NSRS/ERT _____

NSRS ✓ _____

OTHERS (SPECIFY) _____

of effort

Russell J. ... 2-6-86
NSRS Date

EMPLOYEE CONCERN ASSIGNMENT REQUEST

TO: Director - NSRS

TRANSMITTAL NUMBER T50263

ERT has received the Employee concern identified below, and has assigned the indicated category and priority:

Priority: 1 Concern #IN-85-933-016

Category: 7 Confidentiality: ___Yes___No(I&H)

Supervisor Notified: ___Yes___X_No Nuclear Safety Related YES

Concern: TVA IS JEOPARDIZING PUBLIC SAFETY BY PLANNING TO ASSIGN PERSONNEL AS LICENSED SENIOR REACTOR OPERATORS WHO HAVE NO PRACTICAL OPERATING EXPERIENCE. THESE PERSONNEL COULD CAUSE EXTENSIVE DAMAGE TO THE OPERATING PLANTS BECAUSE OF THEIR LACK OF PRACTICAL EXPERIENCE, AND THIS COULD MATERIALLY AFFECT THE PLANT'S SAFE SHUTDOWN. EI HAS NO FURTHER INFORMATION. NUCLEAR POWER CONCERN.

O. J. Shaw 2/5/86

Manager, ERT Date

NSRS has assigned responsibility for investigation of the above concern to:

ERT _____

NSRS/ERT _____

NSRS refer to IN-85-933-004 + 010

OTHERS (SPECIFY) _____

Operations Training

Robert L. ... 2-6-86

NSRS Date

PSR

EMPLOYEE CONCERN ASSIGNMENT REQUEST

TO: Director - NSRS

TRANSMITTAL NUMBER T50263

ERT has received the Employee concern identified below, and has assigned the indicated category and priority:

Priority: 1

Concern #00-85-005-011

I.S. - 2.7.86

Category: 53

Confidentiality: ___Yes___No(I&H)

Supervisor Notified: ___Yes___No Nuclear Safety Related YES

Concern: CI STATED THAT TVA DUMPED RADIOACTIVE MATERIAL (WATER), CARRIED IN TANKER TRUCKS FROM SEQUOYAH, IN ONE OF THE FIELDS ON THE OTHER SIDE OF WATTS BAR PROJECT. THIS OCCURRED ABOUT THREE YEARS AGO. CI HAS NO ADDITIONAL DETAILS. CONSTRUCTION DEPARTMENT CONCERN.

Doing - 2.7.86

O. H. Shero 2/15/86
Manager, ERT Date

NSRS has assigned responsibility for investigation of the above concern to:

ERT _____

NSRS/ERT _____

NSRS _____

OTHERS (SPECIFY) _____

Ronald L. ... 2-6-86
NSRS Date

Investigation continued

EMPLOYEE CONCERN ASSIGNMENT REQUEST

TO: Director - NSRS

TRANSMITTAL NUMBER T50264

ERT has received the Employee concern identified below, and has assigned the indicated category and priority:

Priority: 1

Concern #SQM-6-004-013

Category: 53

Confidentiality: ___Yes___No(I&H)

Supervisor Notified: ___Yes_X___No Nuclear Safety Related_YES_

Concern: A PLANT OFFICIAL (KNOWN) THREATENED TO "ELIMINATE" SOME JOBS IF SPECIFIC EQUIPMENT DID NOT PASS TESTING BY THE NEXT MORNING. THIS OCCURRED ON TWO OCCASIONS AND AT LEAST ON ONE OCCASION THE PERSONNEL INVOLVED WERE NOT SATISFIED WITH THE COMPLETED PRODUCT, BUT IT "PASSED". NAMES/DETAILS KNOWN TO QTC, WITHHELD TO MAINTAIN CONFIDENTIALITY. NO FURTHER INFORMATION MAY BE RELEASED. NUCLEAR POWER CONCERN. CI HAS NO FURTHER INFORMATION.

Threat to Information

[Signature] 2/15/86
Manager, ERT Date

NSRS has assigned responsibility for investigation of the above concern to:

ERT ✓

NSRS/ERT _____

NSRS _____

OTHERS (SPECIFY) I&H

QA effort

[Signature] 2-6-86
NSRS Date

EMPLOYEE CONCERN ASSIGNMENT REQUEST

TO: Director - NSRS

TRANSMITTAL NUMBER T50263

ERT has received the Employee concern identified below, and has assigned the indicated category and priority:

Priority: 1

Concern #SQM-6-008-001

I-86-207-SAC

Category: 52

Confidentiality: ___Yes___No(I&H)

Supervisor Notified: ___Yes___X_No Nuclear Safety Related_YES_

Concern: WELDS ON PIPING IN ACCUMULATOR ROOM #5, REACTOR II, SPECIFICALLY SOCKET WELDS OF THE SAFETY INJECTION SYSTEM, ARE UNDERSIZED. NUCLEAR POWER DEPARTMENT CONCERN. NO FURTHER INFORMATION IN FILE.

ERT/NSRS p: 11 10M=5

Ort Here _____ *2/5/86*
Manager, ERT Date

NSRS has assigned responsibility for investigation of the above concern to:

ERT _____

NSRS/ERT _____

NSRS *✓* *WDS* _____

OTHERS (SPECIFY) *695* _____

*WDS/NSRS
6/2/86*

Robert J. ... _____ *2-6-86*
NSRS Date

EMPLOYEE CONCERN ASSIGNMENT REQUEST

TO: Director - NSRS

TRANSMITTAL NUMBER T50264

ERT has received the Employee concern identified below, and has assigned the indicated category and priority:

Priority: 1

Concern #SQM-6-011-002

I-96-500-500

Category: 53

Confidentiality: ___Yes___ No (I&H)

Supervisor Notified: ___Yes___ No Nuclear Safety Related YES_

Concern: SEQUOYAH WAS ALLEGEDLY SHUT DOWN IN AUGUST 1985, DUE TO THE FAILURE OF A GROUP (KNOWN) TO APPROPRIATELY DOCUMENT WORK (SPECIFICS NOT KNOWN) WHICH HAD BEEN PERFORMED. NO FURTHER INFORMATION IN FILE. ANONYMOUS CONCERN.

ERT/ERT 0000 502

Oh There 2/5/86
Manager, ERT Date

NSRS has assigned responsibility for investigation of the above concern to:

ERT _____

NSRS/ERT _____

NSRS _____

OTHERS (SPECIFY) _____

SA Document

Bruce L. Ferguson 2-6-86
NSRS Date

EMPLOYEE CONCERN ASSIGNMENT REQUEST

TO: Director - NSRS

TRANSMITTAL NUMBER T50264

ERT has received the Employee concern identified below, and has assigned the indicated category and priority:

Priority: 1

Concern #WBP-6-020-001

I-80-271-1060

Category: 53

Confidentiality: ___Yes___No (I&H)

Supervisor Notified: ___Yes_X___No Nuclear Safety Related_YES_

Concern: FUNDING FOR A DEPARTMENT (KNOWN) IS APPROVED/CONTROLLED BY (DEPARTMENT KNOWN). EXTRAORDINARY EFFORT IS REQUIRED TO GET MAN-HOURS APPROVED TO INVESTIGATE SAFETY CONCERNS OUTSIDE THE ORIGINAL DEPARTMENT SCOPE OF WORK, THEREFORE, SIGNIFICANT SAFETY ISSUES COULD BE LEFT UNEVALUATED. NUCLEAR POWER DEPARTMENT CONCERN. NUCLEAR POWER DEPARTMENT CONCERN. NO ADDITIONAL INFORMATION AVAILABLE IN FILE.

RECORDED COPY

O. J. Shaw 2/5/86
Manager, ERT Date

NSRS has assigned responsibility for investigation of the above concern to:

ERT _____

NSRS/ERT _____

NSRS _____

OTHERS (SPECIFY) _____

QA effect

[Signature] 2-6-86
NSRS Date

EMPLOYEE CONCERN ASSIGNMENT REQUEST

TO: Director - NSRS

TRANSMITTAL NUMBER T50264

ERT has received the Employee concern identified below, and has assigned the indicated category and priority:

Priority: 1

Concern #WBP-6-020-002

I-56-272-213A

Category: 53

Confidentiality: ___Yes___No (I&H)

Supervisor Notified: ___Yes__X_No Nuclear Safety Related_YES_

Concern: AN INADEQUATE PROGRAM EXISTS FOR EMPLOYEES (DEPARTMENT KNOWN) TO DOCUMENT CONCERNS. UNDER THE PRESENT SYSTEM, THE DIRECT SUPERVISOR MUST VALIDATE THE CONCERN BEFORE IT BECOMES OFFICIAL. THE SIGNIFICANT CONDITION REPORTS ARE OFTEN REWRITTEN BY MANAGEMENT BEFORE IT IS ISSUED. NO PROVISIONS EXIST REQUIRING THE ORIGINATOR TO BE ADVISED OF THE ACTION OR NONACTION TAKEN ON THE SUBMITTED CONCERN. CI HAS NO FURTHER INFORMATION. NO ADDITIONAL INFORMATION AVAILABLE IN FILE.

RECEIVED DIRECTOR

OT Theo 2/5/86
Manager, ERT Date

NSRS has assigned responsibility for investigation of the above concern to:

ERT _____

NSRS/ERT _____

NSRS _____

OTHERS (SPECIFY) _____

PA effort

Robert H. Boyler 2-6-86
NSRS Date

EMPLOYEE CONCERN ASSIGNMENT REQUEST

TO: Director - NSRS

TRANSMITTAL NUMBER T50264

ERT has received the Employee concern identified below, and has assigned the indicated category and priority:

Priority: 1

Concern #WBP-6-020-003

I-56-273-6511

Category: 53

Confidentiality: ___Yes___No (I&H)

Supervisor Notified: ___Yes_X___No Nuclear Safety Related_YES_

Concern: DEPARTMENT (KNOWN) IS NOT CONDUCTING DISCRETIONARY SAFETY REVIEWS AS PER THEIR CHARTER DUE TO A LACK OF BUDGET. A SAFETY REVIEW SECTION WAS CREATED, HOWEVER, NO BUDGET WAS ALLOCATED FOR A STAFF. SO EVEN WITH AN ATTEMPT AT CORRECTIVE ACTION, AN EFFECTIVE INDEPENDENT SAFETY REVIEW PROGRAM HAS NOT BEEN ESTABLISHED AND IMPLEMENTED. DETAILS KNOWN TO QTC, WITHHELD DUE TO CONFIDENTIALITY. NO FURTHER INFORMATION MAY BE RELEASED.

DISCRET SA- 10000

O. J. [Signature] 2/5/86

Manager, ERT Date

NSRS has assigned responsibility for investigation of the above concern to:

ERT _____

NSRS/ERT _____

NSRS _____

OTHERS (SPECIFY) _____

[Signature] 2/6/86

NSRS Date

S.A.
[Handwritten marks]

758

EMPLOYEE CONCERN ASSIGNMENT REQUEST

TO: Director - NSRS

TRANSMITTAL NUMBER T30265

ERT has received the Employee concern identified below, and has assigned the indicated category and priority:

Priority: 1

Concern #WI-85-046-020

I-36-2.2-001-

Category: 53

Confidentiality: ___ Yes ___ No (I&H)

Supervisor Notified: Yes ___ No Nuclear Safety Related YES

Concern: TVA PROCEDURE, NVT 1, FOR ASME SECTION ELEVEN (11) HANGER INSPECTION DOES NOT ADEQUATELY DEFINE THE ACCEPTANCE CRITERIA FOR RANGE SETTINGS ON MECHANICAL AND HYDRAULIC SNUBBERS. THIS LACK OF ACCEPTANCE CRITERIA IS CAUSING INCONSISTENCY AMONG QC INSPECTORS: SOME INSPECTORS HAVE BEEN ENTERING "N/A", WHILE OTHER INSPECTORS ARE INTERPRETING THE PROCEDURE DIFFERENTLY AND ENTERING RANGES WHICH THEY THINK ARE ACCEPTABLE. CI COULD NOT PROVIDE ANY ADDITIONAL INFORMATION. NUCLEAR POWER DEPARTMENT CONCERN.

Page 2 of 2 SUB. CONT.

[Signature] 2/5/86
Manager, ERT Date

NSRS has assigned responsibility for investigation of the above concern to:

ERT _____

NSRS/ERT _____

NSRS _____

OTHERS (SPECIFY) _____

[Signature]
Inspector

[Signature] 2-5-86
NSRS Date

EMPLOYEE CONCERN ASSIGNMENT REQUEST

TO: Director - NSRS

TRANSMITTAL NUMBER T50265

ERT has received the Employee concern identified below, and has assigned the indicated category and priority:

Priority: 1

Concern #XX-85-040-002

I-52-263-2A

Category: 7

Confidentiality: ___Yes___No (I&H)

Supervisor Notified: X Yes ___No Nuclear Safety Related YES

Concern: BROWNS FERRY - DEPARTMENT INADEQUATELY PERFORMS ITS ASSIGNED FUNCTION. IT IS STAFFED WITH TEMPORARY PERSONNEL WHO ARE INEXPERIENCED AND UNTRAINED. AS A RESULT, DOCUMENTS HAVE BEEN LOST OR DESTROYED. RECORDS ARE NOT ADEQUATELY CONTROLLED. NUCLEAR POWER DEPARTMENT CONCERN. DETAILS KNOWN TO QTC, WITHHELD DUE TO CONFIDENTIALITY. NO FURTHER INFORMATION MAY BE RELEASED.

ERT / OTC 1/22/86

O. J. Thero 2/5/86
Manager, ERT Date

NSRS has assigned responsibility for investigation of the above concern to:

ERT _____

NSRS/ERT _____

NSRS ✓ *was*

OTHERS (SPECIFY) _____

*Document
Control*

Barry J. ... 2-5-86
NSRS Date

PSR

EMPLOYEE CONCERN ASSIGNMENT REQUEST

TO: Director - NSRS

TRANSMITTAL NUMBER T50265

ERT has received the Employee concern identified below, and has assigned the indicated category and priority:

Priority: 1

Concern #XX-85-040-003

I-50-211-150

Category: 53

Confidentiality: ___Yes___No(I&H)

Supervisor Notified: ___Yes_X___No Nuclear Safety Related_YES_

Concern: BROWNS FERRY - THE PUBLIC SAFETY DEPARTMENT DOES NOT ADEQUATELY CONTROL THE ACCESS OF VISITORS INSIDE THE PROTECTED AREA. A PERSON WITH A VISITOR BADGE WENT INTO AN UNAUTHORIZED AREA OF THE FACILITY. DETAILS KNOWN TO QTC. WITHHELD DUE TO CONFIDENTIALITY. NO FURTHER INFORMATION MAY BE RELEASED.

377 110106 10 11 1986

OT Jones _____ *2/5/86*
Manager, ERT Date

NSRS has assigned responsibility for investigation of the above concern to:

ERT _____

NSRS/ERT _____

NSRS *1 WDS*

OTHERS (SPECIFY) _____

operation control

Ronald Fisher _____ *2-6-86*
NSRS Date

EMPLOYEE CONCERN ASSIGNMENT REQUEST

TO: Director - NSRS

TRANSMITTAL NUMBER T50263

ERT has received the Employee concern identified below, and has assigned the indicated category and priority:

Priority: 1

Concern #XX-85-040-004

I-86-200-2-6

Category: 88

Confidentiality: ___Yes___No(I&H)

Supervisor Notified: ___Yes_X___No Nuclear Safety Related YES

Concern: BROWNS FERRY - DOCUMENT CHECK OUT RECORDS HAVE BEEN FALSIFIED, WHICH HAS RESULTED IN A LOSS OF DOCUMENT ACCOUNTABILITY. NUCLEAR POWER DEPARTMENT CONCERN. NO FURTHER INFORMATION IN FILE.

3/11/86

O. J. Thero 2/5/86

Manager, ERT Date

NSRS has assigned responsibility for investigation of the above concern to:

ERT _____

NSRS/ERT _____

NSRS *WDS*

OTHERS (SPECIFY) *OGC*

Document Control

Bruce A. ... 2/6/86

NSRS Date

TVA EMPLOYEE CONCERN PROGRAM
WATTS BAR NUCLEAR PLANT
NUCLEAR REGULATORY COMMISSION LISTING

QTC_NUMBER	SUBJECT	INVEST ORG	DATE REPORT	S U B ?	DATE RESPONSE	A C C ?	DATE INVEST CLOSED	KEY WORD	#
EX-85-003-003	UNAUTH CHNG TO WDREC	ERT	07/09/85	.T.	07/24/85	T	07/24/85	WELDING	1
EX-85-008-001	UNQUAL SUBJOURNEYMEN	ERT	09/28/85	.T.	/ /		/ /	CONSTRUCTI	1
EX-85-009-001	SUBSTN WK BY SUBJRMN	ERT	09/28/85	.T.	/ /		/ /	CONSTRUCTI	1
EX-85-010-002	UNQAUL SUBJOURNEYMEN	ERT	09/28/85	.T.	/ /		/ /	CONSTRUCTI	1
EX-85-012-001	UNQUALIFIED PERSONNE	ERT	09/28/85	.T.	/ /		/ /	CONSTRUCTI	1
EX-85-021-001	INADEQUAT ACCOUNTABI	ERT	11/27/85	.T.	/ /		/ /	WELDING	1
EX-85-021-002	VERIFI PROCESS/WELD	ERT	09/26/85	.T.	/ /		10/03/85	WELDING	1
EX-85-026-001	CRACKS IN CONTAIN WA	NSRS	01/07/86	.T.	/ /		01/10/86	CIVIL	1
EX-85-039-003	DESIGN DEFICIENCY	EG&G	11/07/85	.T.	01/14/86	T	01/17/86	WELDING	1
EX-85-042-003	WELDERS REQUALIFICAT	ERT	10/23/85	.T.	/ /		10/30/85	WELDING	1
EX-85-046-001	IMPRP FIRE DAMPERS	NSRS	12/17/85	.F.	/ /		12/17/85	MEHCANICAL	1
EX-85-049-001	NO SECURITY BARRIER	NSRS	10/17/85	.T.	11/26/85	T	12/10/85	SECURITY	1
EX-85-052-006	CONDUIT TORN OUT	NSRS	01/06/86	.F.	/ /		01/07/86	CONSTRUCTI	1
EX-85-059-002	INADQ INSTAL HANGERS	NSRS	12/18/85	.F.	/ /		12/24/85	HANGERS	1
HI-85-020-001	REP VIOL & REC DISPL	ERT	01/15/86	.F.	/ /		01/15/86	QA	1
HI-85-029-001	ADV JOB ACT FOR CONC	ERT	01/15/86	.F.	/ /		01/15/86	QA	1
HI-85-041-001	DISP FOR REPT VIOLAT	ERT	01/15/86	.F.	/ /		01/15/86	QA	1
HI-85-067-001	EMP AFRAID REP DAMAG	NSRS	01/15/86	.F.	/ /		01/15/86	QA	1
IN-85-001-002	WELD ROD CONTROL	ERT	07/10/85	.F.	/ /		07/06/85	WELDING	1
IN-85-001-003	WELDS UNDER WATER	ERT	07/10/85	.T.	09/23/85	T	09/23/85	WELDING	1
IN-85-001-005	"SHODDY WORKMANSHIP"	NSRS	12/10/85	.T.	/ /		12/12/85	WELDING	1
IN-85-007-003	VENDOR WELDS INSPECT	NSRS	12/10/85	.T.	/ /		12/12/85	WELDING	1
IN-85-008-002	IMPROP INSTAL INSULA	NSRS	01/06/86	.T.	/ /		/ /	CONSTRUCTI	1
IN-85-008-004	IMP INSTAL CONDUIT	NSRS	02/06/86	.F.	/ /		/ /	ELECTRICAL	1
IN-85-010-002	VIOLATION OF 050 NTS	NSRS	11/22/85	.T.	/ /		/ /	HANGERS	1
IN-85-010-004	FIRE PROT PIPNG DSN	ERT	09/16/85	.F.	/ /		09/24/85	DESIGN	1
IN-85-012-001	MAT MANF TO ASTM SPC	ERT	01/02/86	.T.	/ /		/ /	MATERIAL	1
IN-85-012-X02	TENSILE STRNG OF FIT	NSRS	08/05/85	.T.	/ /		08/05/85	MATERIAL	1
IN-85-016-001	BROKN CONCRE AT PLAT	NSRS/ERT	08/05/85	.F.	/ /		08/04/85	CIVIL	1
IN-85-016-003	TUBING NOT CLAMPED	NSRS	09/03/85	.T.	01/06/86	T	/ /	HANGERS	1
IN-85-018-004	SUPV NOT FOLLOW PROC	NSRS	11/14/85	.T.	/ /		11/20/85	ELECTRICAL	1
IN-85-020-001	IMPROP INSTAL REDHDS	NSRS/ERT	08/15/85	.T.	/ /		/ /	CIVIL	1
IN-85-021-001	TUBE BENDERS	ERT	07/27/85	.T.	10/22/85	T	10/30/85	CONSTRUCTI	1
IN-85-021-002	SYS77 DRAINS IN FLR	ERT	08/23/85	.T.	/ /		08/30/85	DESIGN	1
IN-85-021-003	BACKDATE CERTF CARDS	ERT	08/19/85	.T.	/ /		/ /	WELDING	1
IN-85-021-X05	WELDER CERTIF FALSIF	ERT/OGC	10/24/85	.T.	/ /		/ /	WELDING	1
IN-85-024-001	DRWNS & 050 NOTES	NSRS	07/03/85	.T.	01/10/86	F	/ /	HANGERS	1
IN-85-025-001	INCORE THERMO TEST	NSRS	07/03/85	.F.	/ /		/ /	TESTING	1
IN-85-026-001	FITUP INSPECTS	NSRS	12/31/85	.T.	/ /		01/07/86	WELDING	1
IN-85-027-002	COMPUTER ANALYSIS	ERT	08/01/85	.T.	10/08/85	T	10/08/85	DESIGN	1
IN-85-031-001	ENBD PLTS NOT CORREC	ERT	08/20/85	.T.	01/02/86	F	/ /	DESIGN	1
IN-85-032-001	PIPING CALCULATIONS	ERT	11/26/85	.F.	/ /		11/29/85	DESIGN	1
IN-85-033-001	EP 4.03	NSRS	01/02/86	.T.	/ /		/ /	DESIGN	1
IN-85-037-001	CONCRETE ANCHORS	ERT	07/09/85	.T.	01/07/86	F	/ /	CIVIL	1
IN-85-038-001	ANALYS OF LARGE PIPE	ERT	07/08/85	.T.	09/05/85	T	09/05/85	DESIGN	1
IN-85-039-001	THML STRS ON PIPING	ERT	07/09/85	.T.	09/05/85	T	09/05/85	DESIGN	1
IN-85-039-002	STRES&SUPPRT LD PROB	ERT	11/08/85	.T.	/ /		11/12/85	DESIGN	1

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IN-85-246-003	INADQ INSTAL HANGERS	NSRS	01/08/86	.T.	/ /		01/10/86	CIVIL	1
IN-85-246-005	RUSTED WELDS/#2/RB	ERT	10/24/85	.T.	/ /		/ /	WELDING	1
IN-85-247-001	QUALITY OF RODS	ERT	01/29/86	.T.	/ /		/ /	WELDING	1
IN-85-250-001	INSP PERF W/O WK REL	NSRS	11/27/85	.T.	/ /		11/29/85	HANGERS	1
IN-85-251-002	MAINT WITHOUT NCR	NSRS	10/31/85	.F.	12/06/85	T	12/10/85	QA	1
IN-85-260-003	WELD DOCUMNTATION	ERT	10/07/85	.F.	11/29/85	T	12/10/85	WELDING	1
IN-85-271-001	GROUND DOWN WELDS	ERT	12/19/85	.T.	/ /		/ /	WELDING	1
IN-85-272-004	FIREPROOFING CABLES	NSRS	12/10/85	.T.	/ /		12/12/85	DESIGN	1
IN-85-277-001	INSTAL PIPE W/O DRWG	NSRS	11/27/85	.T.	/ /		11/29/85	CONSTRUCTI	1
IN-85-278-001	INADQ EMP FOR RECORD	NSRS	01/13/86	.F.	/ /		01/17/86	DOCUMENT	1
IN-85-278-002	INADQ DOCUMENT CONTR	NSRS	12/10/85	.F.	/ /		12/12/85	DOCUMENT	1
IN-85-278-003	INADQ QA RECORDS	NSRS	12/18/85	.F.	/ /		12/24/85	DOCUMENT	1
IN-85-279-002	PCR & NCR APPROVALS	NSRS	01/23/86	.T.	/ /		/ /	QA	1
IN-85-279-003	PCRS MISINCORP DRWGS	NSRS	01/23/86	.T.	/ /		/ /	DOCUMENT	1
IN-85-279-005	NO TRACKING SYSTEM	NSRS	11/13/85	.T.	/ /		11/15/85	DESIGN	1
IN-85-281-001	DIPFUSER FLOW	ERT	07/05/85	.T.	07/25/85	T	07/25/85	DESIGN	1
IN-85-281-003	TRNSM NOT READ SAME	NSRS	08/15/85	.T.	12/04/85	T	12/10/85	DESIGN	1
IN-85-282-002	PIPING WELDS	ERT	12/19/85	.T.	/ /		/ /	WELDING	1
IN-85-284-001	QUALITY OF WELD RODS	ERT	01/29/86	.T.	/ /		/ /	WELDING	1
IN-85-284-005	POOR PLANT CLEANLINE	NSRS	01/21/86	.F.	/ /		01/24/86	CONSTRUCT	1
IN-85-285-001	IMPROP INSTAL PLATES	NSRS	01/08/86	.T.	/ /		01/10/86	CIVIL	1
IN-85-285-002	PULL TEST NOT 100%	NSRS	01/16/86	.F.	/ /		/ /	CIVIL	1
IN-85-285-003	MGRS INT ONLY PRODUC	NSRS	01/08/86	.T.	/ /		01/10/86	QA	1
IN-85-288-001	INPROP INSTAL HANGER	NSRS	02/03/86	.T.	/ /		/ /	HANGERS	1
IN-85-289-001	ERRORS DURING TESTIN	NSRS	01/07/86	.T.	/ /		01/10/86	OPERATIONS	1
IN-85-289-002	DEFECT PIPING	NSRS	12/19/85	.T.	02/06/86		/ /	DESIGN	1
IN-85-289-006	VERMASCO APPL PREMAT	NSRS	11/27/85	.T.	/ /		11/29/85	ELECTRICAL	1
IN-85-293-001	NCR 4412	NSRS	12/18/85	.F.	/ /		12/18/85	DESIGN	1
IN-85-299-002	ROD PERFORMANCE	ERT	01/29/86	.T.	/ /		/ /	WELDING	1
IN-85-311-008	CR ENTRANCE FIREDOOR	ERT	08/19/85	.T.	09/24/85	T	10/10/85	OPERATIONS	1
IN-85-317-001	WELD RODS	ERT	01/29/86	.T.	/ /		/ /	WELDING	1
IN-85-325-003	CYCLICAL STRESS FAIL	NSRS	01/21/86	.T.	/ /		01/22/86	DESIGN	1
IN-85-325-006	VALV CONT/OPER TRAN	NSRS	10/01/85	.F.	/ /		10/04/85	OPERATIONS	1
IN-85-337-001	ERCW LN W/CEMENT LIN	NSRS	10/03/85	.F.	/ /		/ /	MECHANICAL	1
IN-85-337-002	WELD ROD CONTROL	ERT	11/27/85	.T.	/ /		/ /	WELDING	1
IN-85-346-003	WELD CERTIFICATIONS	ERT	09/26/85	.T.	/ /		10/03/85	WELDING	1
IN-85-352-001	UPDATE WELD CERTIFIC	ERT	09/26/85	.T.	/ /		10/03/85	WELDING	1
IN-85-352-002	NO PORT WELD OVENS	ERT	11/27/85	.T.	/ /		/ /	WELDING	1
IN-85-366-003	INADQ CONTROL DRWGS	NSRS	01/30/86	.T.	/ /		02/03/86	DOCUMENT	1
IN-85-369-001	UNTRAIN CLERKS	ERT	02/06/86	.T.	/ /		/ /	CONSTRUCTI	1
IN-85-373-001	DAMAGED CABLE	NSRS	06/28/85	.T.	07/25/85	T	07/25/85	ELECTRICAL	1
IN-85-388-003	UNLABELED MATERIALS	NSRS	01/24/86	.T.	/ /		/ /	MATERIAL	1
IN-85-388-004	QA LEVEL MATERIALS	NSRS	01/31/86	.T.	/ /		/ /	MATERIAL	1
IN-85-388-006	HEAT CODE TRACEABILI	NSRS	07/03/85	.T.	07/26/85	T	02/05/86	MATERIAL	1
IN-85-393-003	FSAR REQ FOR SUPERV	NSRS	07/03/85	.T.	11/25/85	T	11/27/85	OPERATIONS	1
IN-85-406-001	UNAUTH CHNG TO WDREC	ERT	07/09/85	.T.	07/24/85	T	07/24/85	WELDING	1
IN-85-407-001	INACCURATE Q-LIST	NSRS	10/04/85	.T.	12/24/85	F	/ /	DESIGN	1

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IN-85-410-003	EMBED PLATE "HOLLOW"	NSRS	01/07/86	.T.	/ /		01/10/86	CIVIL	1
IN-85-410-006	GRPS ADHERE PROCEDUR	NSRS	01/06/86	.T.	/ /		01/10/86	QA	1
IN-85-411-001	SAFTY HAZ ON PLATFRM	NSRS	07/23/85	.T.	08/09/85	T	09/08/85		1
IN-85-411-002	DEFFECTIVE WELD RODS	ERT	01/29/86	.T.	/ /		/ /	WELDING	1
IN-85-413-001	"050"NOTES	NSRS	08/09/85	.T.	/ /		08/09/85	HANGERS	1
IN-85-415-002	CONCRETE ERCW LINES	NSRS	07/11/85	.F.	/ /		07/11/85	MECHANICAL	1
IN-85-424-001	NO PORT OVENS	ERT	11/27/85	.T.	/ /		/ /	WELDING	1
IN-85-424-004	STMPIT PERFM WELDING	ERT	11/27/85	.T.	/ /		/ /	WELDING	1
IN-85-424-006	ACCOUNT OF WELD RODS	ERT	11/27/85	.T.	/ /		/ /	WELDING	1
IN-85-424-007	LACK OF WELD ROD CON	ERT	11/27/85	.T.	/ /		/ /	WELDING	1
IN-85-424-011	INADEQ UPDT WELD CER	ERT	09/26/85	.T.	/ /		10/03/85	WELDING	1
IN-85-424-X13	FALSIF WELDER CERTIF	ERT/OGC	10/24/85	.T.	/ /		/ /	WELDING	1
IN-85-426-001	UNREQ PORT OVENS	ERT	11/27/85	.T.	/ /		/ /	WELDING	1
IN-85-426-002	INADEQ WELD CERTIFIC	ERT	09/26/85	.T.	/ /		10/03/85	WELDING	1
IN-85-439-002	"HOLLOW" EMBED PLATE	NSRS	01/07/86	.T.	/ /		01/10/86	CIVIL	1
IN-85-439-003	INADEQ CRAFT SUPV	NSRS	10/30/85	.F.	/ /		10/30/85	CONSTRUCTI	1
IN-85-439-006	SUBSTD WEAK CONCRETE	NSRS	11/07/85	.F.	/ /		/ /	CIVIL	1
IN-85-441-001	NO DATA ON TUBE STEL	NSRS	01/31/86	.T.	/ /		/ /	MATERIAL	1
IN-85-441-003	NO PORT WELD OVENS	ERT	11/27/85	.T.	/ /		/ /	WELDING	1
IN-85-442-X12	LINING LOSS IN PIPE	NSRS	10/03/85	.F.	/ /		/ /	MECHANICAL	1
IN-85-442-X13	UNDR DAM NOT TO SPEC	ERT	01/28/86	.T.	/ /		/ /	CIVIL	1
IN-85-445-002	UNAUT ACCS TO WLD SY	ERT	08/27/85	.T.	/ /		08/27/85	WELDING	1
IN-85-445-004	INCORR INSPEC REQUIR	ERT	11/25/85	.T.	/ /		/ /	QA	1
IN-85-445-008	PROC DIFFICULT TO KN	NSRS	10/23/85	.F.	/ /		10/30/85	CRAFT	1
IN-85-445-010	EYE TEST INADEQUATE	NSRS	10/28/85	.T.	12/10/85	T	/ /	WELDING	1
IN-85-445-013	47-050 HARD TO USE	NSRS	10/10/85	.T.	/ /		10/16/85	HANGERS	1
IN-85-445-X15	INSP REQ FALSIFIED	ERT/OGC	11/25/85	.T.	/ /		/ /	QA	1
IN-85-450-001	FLUX BURNS OF WLD RD	ERT	01/29/86	.T.	/ /		/ /	WELDING	1
IN-85-453-007	INADEQ CERTF OF WELD	ERT	08/19/85	.T.	/ /		/ /	WELDING	1
IN-85-453-009	PASS OF WELD ROD	ERT	11/27/85	.T.	/ /		/ /	WELDING	1
IN-85-454-004	PASS OF WELD ROD	ERT	11/27/85	.T.	/ /		/ /	WELDING	1
IN-85-455-001	POOR QUAL WELD RODS	ERT	01/29/86	.T.	/ /		/ /	WELDING	1
IN-85-457-001	INADQ REVIEW BY PORC	NSRS	10/17/85	.T.	01/02/86		/ /	OPERATIONS	1
IN-85-457-002	NCRS FOR SPT FUL RCK	NSRS	01/22/86	.F.	/ /		/ /	QA	1
IN-85-458-007	CHNG OF WELD STATUS	ERT	08/27/85	.T.	/ /		08/27/85	WELDING	1
IN-85-460-002	MATRL W/O HEAT #'S	NSRS	01/31/86	.T.	/ /		/ /	MATERIAL	1
IN-85-460-003	GOUGE IN LINE, 1#	ERT	08/29/85	.T.	09/24/85	T	10/17/85	MECHANICAL	1
IN-85-460-X05	EXCAV ARC STRK SYS72	ERT	10/21/85	.T.	01/15/86	F	/ /	WELDING	1
IN-85-463-007	DELAY IN DOCUMT DRWS	NSRS	11/22/85	.F.	/ /		11/27/85	DOCUMENT	1
IN-85-465-001	LINES CLOSE TO HANGR	NSRS	07/30/85	.T.	08/09/85	T	09/08/85	MECHANICAL	1
IN-85-465-002	LOOSE CONDUIT	NSRS	09/09/85	.F.	11/14/85	T	11/20/85	HANGERS	1
IN-85-472-002	NO NCRS ON ERCW LINS	NSRS	10/03/85	.F.	/ /		/ /	QA	1
IN-85-472-007	EROSION IN TRENCH AR	ERT	01/28/86	.T.	/ /		/ /	CIVIL	1
IN-85-481-001	NO QCP FOR CONC INSP	NSRS	01/09/86	.T.	/ /		/ /	QA	1
IN-85-485-X01	SOFT CONCRETE	NSRS	11/07/85	.F.	/ /		/ /	CIVIL	1
IN-85-493-004	INADEQ WELD CERTIFIC	ERT	09/26/85	.T.	/ /		10/03/85	WELDING	1
IN-85-496-001	ERCW LIQUEFACTION	ERT	01/28/86	.T.	/ /		/ /	CIVIL	1

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IN-85-496-002	LINER OF ERCW PIPING	NSRS	10/03/85	.P.	/ /		/ /	MECHANICAL	1
IN-85-501-001	UNUSED WLD RDS DISPO	ERT	09/03/85	.T.	/ /		/ /	WELDING	1
IN-85-514-001	CONTAM DURING CUTTIN	ERT	08/22/85	.T.	01/09/86	T	/ /	INSTRUMENT	1
IN-85-520-002	BAD WELD ROD	ERT	01/29/86	.T.	/ /		/ /	WELDING	1
IN-85-524-001	CRACKS IN FLUX	ERT	01/29/86	.T.	/ /		/ /	WELDING	1
IN-85-527-001	CABLE PULL W/O FUSE	NSRS/OGC	11/27/85	.T.	/ /		11/29/85	ELECTRICAL	1
IN-85-530-001	WLDS NOT ACCRD PROCD	NSRS	08/15/85	.P.	/ /		08/15/85	WELDING	1
IN-85-532-004	WELDER RECERTIFICATE	ERT	09/26/85	.T.	/ /		10/03/85	WELDING	1
IN-85-532-005	RECERT W/O VERIFICAT	ERT	09/26/85	.T.	/ /		10/03/85	WELDING	1
IN-85-532-006	OVERSIZED WELDS	NSRS	03/16/85	.T.	02/06/86	T	02/11/86	WELDING	1
IN-85-534-001	FIRE PROTECT SYSTEM	NSRS	10/08/85	.P.	12/20/85	T	02/10/86	DESIGN	1
IN-85-534-002	FIRE PROT LINES	NSRS	10/22/85	.P.	/ /		10/22/85	DESIGN	1
IN-85-534-005	FIRE PROTEC HYDRO TE	NSRS	10/02/85	.P.	01/02/86	F	/ /	TESTING	1
IN-85-540-001	INADE WELD CERTIFICA	ERT	09/26/85	.T.	/ /		10/03/85	WELDING	1
IN-85-541-001	REQ WELD ON 2 SIDES	NSRS	08/15/85	.P.	/ /		08/15/85	WELDING	1
IN-85-543-002	INADEQ WELD CERTIFIC	ERT	09/26/85	.T.	/ /		10/03/85	WELDING	1
IN-85-543-004	DETERORATE STEEL	NSRS	07/29/85	.P.	09/26/85	T	11/29/85	CONSTRUCTI	1
IN-85-544-001	WORK W/O WORKPLAN	ERT	10/22/85	.P.	01/06/86	T	01/14/86	QA	1
IN-85-544-002	VIOLATION OF PROCEDU	ERT	10/23/85	.T.	12/16/85	T	12/23/85	QA	1
IN-85-554-001	INCOMP STAIN STEL LN	NSRS	09/03/85	.P.	/ /		09/03/85	CONSTRUCTI	1
IN-85-556-001	SUBJ DOING JOUR WORK	ERT	09/28/85	.T.	/ /		/ /	WELDING	1
IN-85-579-001	INCOMPLETE WELD	ERT	12/03/85	.T.	/ /		/ /	WELDING	1
IN-85-581-002	WLDRS NOT QUAL ELEC	NSRS	10/17/85	.T.	/ /		10/17/85	CONSTRUCTI	1
IN-85-584-001	FIT-UP INSPECT REQR	NSRS	12/31/85	.T.	/ /		01/07/86	WELDING	1
IN-85-589-001	LINER ON ERCW LINE	NSRS	10/03/85	.P.	/ /		/ /	MECHANICAL	1
IN-85-589-002	SUBJ DOING JOURN WRK	ERT	09/28/85	.T.	/ /		/ /	WELDING	1
IN-85-595-005	SEP OF CARBON/SS	NSRS	01/06/86	.P.	/ /		01/08/86	MATERIAL	1
IN-85-600-001	POOR QUAL WELD ELECT	ERT	01/29/86	.T.	/ /		/ /	WELDING	1
IN-85-601-001	INADEQ SURVL INSTRUC	NSRS	10/09/85	.T.	/ /		10/09/85	QA	1
IN-85-612-006	INADEQ WELD CERTIFIC	ERT	09/26/85	.T.	/ /		10/03/85	WELDING	1
IN-85-612-X07	WELDER CERTIF FALSIF	ERT/OGC	10/24/85	.T.	/ /		/ /	WELDING	1
IN-85-615-001	OBSTRUCTED ACCESS	NSRS	10/04/85	.P.	/ /		10/04/85	DESIGN	1
IN-85-616-001	RO NOT AVAILABLE	NSRS	08/30/85	.T.	10/16/85	T	10/16/85	OPERATIONS	1
IN-85-618-004	DAMAGED INST TUBING	NSRS	08/12/85	.T.	12/20/85	T	12/27/85	CONSTRUCTI	1
IN-85-630-002	SEAL LEAKS INTO BLDG	NSRS	01/15/86	.T.	/ /		01/17/86	CIVIL	1
IN-85-630-003	ERCW LINE IMPROP INS	NSRS	11/19/85	.P.	/ /		/ /	MECHANICAL	1
IN-85-630-004	INADQ DOC FOR ERCW	NSRS	11/19/85	.P.	/ /		/ /	MECHANICAL	1
IN-85-636-001	OVERBAKED WELD RODS	ERT	01/29/86	.T.	/ /		/ /	WELDING	1
IN-85-667-002	HVAC DUCT/NO HEAT #	NSRS	01/31/86	.T.	/ /		/ /	MATERIAL	1
IN-85-671-001	FITUP INSPECTION	NSRS	12/31/85	.T.	/ /		01/07/86	WELDING	1
IN-85-671-002	NOT ISSUING IRN/WRN	NSRS	12/03/85	.T.	/ /		/ /	CIVIL	1
IN-85-671-004	WELDS NOT PROP INSPE	NSRS	10/22/85	.T.	/ /		10/22/85	WELDING	1
IN-85-676-001	DISAGREE W/TVA POLIC	NSRS	10/31/85	.T.	12/27/85	T	01/07/86	QA	1
IN-85-682-005	MGT ALLOW INSP HARAS	NSRS	11/27/85	.P.	01/16/86	T	02/04/86	QA	1
IN-85-684-001	DEFECTIVE TUBE STEEO	NSRS	09/16/85	.P.	/ /		09/16/85	MATERIAL	1
IN-85-688-002	INADEQUATE TVA PROCE	NSRS	12/18/85	.T.	/ /		12/24/85	QA	1
IN-85-688-003	VALIDITY OF CRIT SYS	NSRS	10/04/85	.T.	12/24/86	F	/ /	DESIGN	1

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IN-85-688-004	PREVENT OF CORRECTIV	NSRS	12/09/85	.T.	/ /		/ /	QA	1
IN-85-693-003	EXP/TRAIN OF LABORER	NSRS	01/28/86	.F.	/ /		01/28/86	CONSTRUCTI	1
IN-85-705-001	UNQUALIFIED PERSONNE	ERT	09/28/85	.T.	/ /		/ /	CONSTRUCTI	1
IN-85-713-004	CONCRETE LIN IN PIPE	NSRS	10/03/85	.F.	/ /		/ /	MECHANICAL	1
IN-85-725-X14	INADQ RECPRT PROG	ERT	11/05/85	.F.	12/16/85	T	12/26/85	WELDING	1
IN-85-725-X15	TEST PLATES INADQ	ERT	11/05/85	.F.	12/26/85	T	12/26/85	WELDING	1
IN-85-748-001	TIE-IN OF SEAL DRAIN	ERT	08/16/85	.F.	/ /		08/16/85	DESIGN	1
IN-85-754-001	INADQ PLATE & STEEL	NSRS	01/06/86	.F.	/ /		01/08/86	MATERIAL	1
IN-85-770-002	PROC FOR CER NOT PER	ERT	10/24/85	.T.	02/03/86	T	02/11/86	WELDING	1
IN-85-770-003	UNCERTIFIED WELDERS	ERT	09/26/85	.T.	/ /		10/03/85	WELDING	1
IN-85-770-X07	WELDERS CERT FALSIFI	ERT/OGC	10/24/85	.T.	/ /		/ /	WELDING	1
IN-85-778-001	WELDER CERTIFICATION	ERT	09/26/85	.T.	/ /		10/15/85	WELDING	1
IN-85-778-X07	WELDER CERT CARD FAL	ERT/OGC	10/24/85	.T.	/ /		/ /	WELDING	1
IN-85-795-001	COMPRESS FITTING	ERT	08/07/85	.T.	01/22/86	T	/ /	INSTRUMENT	1
IN-85-795-002	COMPRESS FITTING	ERT	08/07/85	.T.	01/22/86	T	/ /	INSTRUMENT	1
IN-85-802-001	TARGET ROCK VALVES	NSRS	10/25/85	.T.	12/20/85	T	12/27/85	DESIGN	1
IN-85-815-001	CERTIFICATI OF WELDR	ERT	09/26/85	.T.	/ /		10/03/85	WELDING	1
IN-85-824-002	UNAPPROV BEND PROCED	ERT	08/23/85	.T.	10/18/85	T	10/30/85	QA	1
IN-85-825-002	CLAIRTY IN PROCEDURE	NSRS	10/22/85	.F.	/ /		10/22/85	OPERATIONS	1
IN-85-835-002	WELDING CERTIFICATIO	ERT	09/26/85	.T.	/ /		10/03/85	WELDING	1
IN-85-839-001	ERCW MOTOR PROBLEM	NSRS	01/06/86	.F.	/ /		01/07/86	DESIGN	1
IN-85-842-001	CONTROL ON DRAWINGS	NSRS	02/06/86	.F.	/ /		02/10/86	CONSTRUCTI	1
IN-85-845-001	SYS43 UNIS NOT ACHD	NSRS	12/04/85	.F.	/ /		/ /	CIVIL	1
IN-85-845-002	SYS43 HANGER DESIGN	NSRS	11/20/85	.T.	/ /		/ /	HANGERS	1
IN-85-845-003	IMPROP INST&MTL STOR	NSRS	01/22/86	.T.	/ /		/ /	MATERIAL	1
IN-85-845-004	IMPROPER WELDING	NSRS	10/10/85	.F.	/ /		10/16/85	WELDING	1
IN-85-846-002	GOUT LINER/SAFT' HAZ	NSRS	10/03/85	.F.	/ /		/ /	MECHANICAL	1
IN-85-847-006	CRPT SUP ALW UNAP PL	NSRS	10/29/85	.T.	01/22/86	T	01/31/86	QA	1
IN-85-850-002	QUANTITY VS. QUALITY	NSRS	11/07/85	.F.	/ /		11/12/85	QA	1
IN-85-850-004	WORK W/O OFFC APPROV	NSRS	12/19/85	.T.	/ /		12/24/85	QA	1
IN-85-851-001	WELD NONCONFORMANCE	ERT	02/06/86	.T.	/ /		/ /	WELDING	1
IN-85-852-001	VENDOR WELDS	NSRS	01/06/86	.F.	/ /		01/07/86	WELDING	1
IN-85-853-X02	VIOLAT TVA PROCEDURE	ERT	10/12/85	.F.	/ /		10/18/85	QA	1
IN-85-858-001	QUANTITY VS QUALITY	NSRS	12/09/85	.T.	01/15/86		/ /	QA	1
IN-85-864-002	MODIFI TO RHR MOTORS	NSRS	01/23/86	.T.	/ /		/ /	MECHANICAL	1
IN-85-877-001	LIN ACPT WITH DEFAUL	NSRS	12/12/85	.F.	/ /		12/12/85	QA	1
IN-85-897-001	INEXP CRAFTSMEN	NSRS	11/07/85	.T.	/ /		11/12/85	CRAFT	1
IN-85-913-001	ELECT JUNCTION BOXES	NSRS	11/26/85	.F.	01/22/86	T	02/04/86	ELECTRICAL	1
IN-85-913-002	ELECT JUNCTION BOXES	NSRS	11/26/85	.F.	01/22/86	T	02/04/86	ELECTRICAL	1
IN-85-913-004	CONSTRUCT VIOLATIONS	NSRS	11/26/85	.F.	01/22/86	T	02/04/86	QA	1
IN-85-915-002	DRAWING CONTROL	NSRS	10/17/85	.F.	/ /		10/17/85	DOCUMENT	1
IN-85-915-003	DRAWING CONTROL	NSRS/OGC	10/22/85	.T.	/ /		/ /	DOCUMENT	1
IN-85-915-X04	INVEST RESULTS FALSI	ERT/OGC	01/07/86	.T.	/ /		01/10/86	QA	1
IN-85-927-001	STORAGE REQUIREMENTS	NSRS	01/22/86	.T.	/ /		/ /	CONSTRUCTI	1
IN-85-945-001	ELEC MANHOLES DISORG	NSRS	10/22/85	.T.	/ /		/ /	ELECTRICAL	1
IN-85-954-001	EMP NOT PER WORK REQ	ERT/OGC	01/31/86	.F.	/ /		01/31/86	CONSTRUCTI	1
IN-85-955-001	PWR LOST SYST INOPER	NSRS	12/09/85	.T.	/ /		12/12/85	DESIGN	1

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QTC_NUMBER	SUBJECT	INVEST ORG	DATE REPORT	S U B ?	DATE RESPONSE	A C C ?	DATE INVEST CLOSED	KEY WORD	#
IN-85-964-003	IMPROP MAT/EQUIP USE	NSRS	12/10/85	.P.	/ /		12/12/85	MATERIAL	1
IN-85-964-X06	USE OF "SUPERGLUE"	NSRS	12/04/85	.P.	/ /		12/11/85	CONSTRUCTI	1
IN-85-965-001	WELDOR CER BACKDATED	ERT	10/24/85	.T.	/ /		/ /	WELDING	1
IN-85-977-001	TAPE NOT REPL ON RCS	NSRS	10/10/85	.P.	02/05/86	T	02/10/86	QA	1
IN-85-977-002	DOCUMENT OF TCS/SIS	NSRS	10/03/85	.T.	01/22/86	T	02/03/86	DOCUMENT	1
IN-85-982-001	REBAR LOCATERS UNUSE	NSRS	01/08/86	.T.	/ /		01/10/86	CIVIL	1
IN-85-995-002	PSAR COMMITMENTS	ERT	01/31/86	.T.	/ /		/ /	QA	1
IN-85-998-002	IRN PROG NEEDS IMPRO	NSRS	12/03/85	.T.	/ /		/ /	QA	1
IN-86-014-001	EXCESS SI ON EQUIPME	NSRS	12/17/85	.T.	02/06/86		/ /	OPERATIONS	1
IN-86-022-002	UNSKILLED EMPLOYEE	ERT	02/06/86	.T.	/ /		/ /	CONSTRUCTI	1
IN-86-022-X03	FALSIFICATION OF DOC	ERT/OGC	02/06/86	.T.	/ /		/ /	QA	1
IN-86-055-002	LEAKING PIPE	NSRS	11/22/85	.P.	/ /		11/27/85	MAINTENANC	1
IN-86-055-003	HYDRAZINE SPILL	NSRS	10/17/85	.T.	12/26/85	T	01/07/86	OPERATIONS	1
IN-86-064-001	INAPT AIR FLOW SWITC	NSRS	12/18/85	.T.	/ /		12/18/85	EQUIPMENT	1
IN-86-068-002	RETUBIN OF HEAT EXCH	ERT	11/05/85	.T.	/ /		/ /	MAINTENANC	1
IN-86-081-0J1	INADEQ PLANT SYS STA	NSRS	11/19/85	.T.	/ /		/ /	OPERATIONS	1
IN-86-083-003	PRODUCTION VS QUALIT	NSRS	12/05/85	.P.	12/31/85	T	01/13/86	TESTING	1
IN-86-087-002	EFFECT OF QA DEPT	NSRS	11/19/85	.P.	/ /		11/21/85	QA	1
IN-86-087-003	DELAY IN CARS/DRS	NSRS	12/09/85	.T.	/ /		/ /	QA	1
IN-86-087-004	DIFFERENCE IN Q-LIST	NSRS	10/04/85	.T.	12/24/85	F	/ /	QA	1
IN-86-090-001	DIFFERENCE IN Q-LIST	NSRS	10/04/85	.T.	12/24/85	F	/ /	QA	1
IN-86-090-002	DELAY IN CARS/DRS	NSRS	12/09/85	.T.	/ /		/ /	QA	1
IN-86-090-003	SIS APPROVAL W/O REV	NSRS	10/17/85	.T.	/ /		/ /	OPERATIONS	1
IN-86-098-001	DELAY IN CAR/DR	NSRS	12/09/85	.T.	/ /		/ /	QA	1
IN-86-102-001	REQ FOR CONDUIT INSU	NSRS	10/11/85	.T.	12/26/85	T	01/07/86	HANGERS	1
IN-86-102-002	NO ATTACH D/CONDUIT	NSRS	10/14/85	.P.	/ /		10/16/85	CONSTRUCTI	1
IN-86-103-001	NO ATTACH D/CONDUIT	NSRS	10/11/85	.T.	12/23/85	T	01/07/86	ELECTRICAL	1
IN-86-103-002	REMOVAL OF INSULATIO	NSRS	11/13/85	.P.	/ /		11/15/85	CONSTRUCTI	1
IN-86-108-001	DRAWINGS NOT CURRENT	NSRS	11/01/85	.P.	/ /		11/04/85	DOCUMENT	1
IN-86-108-002	SQN/BFN/BLN DRWGS	NSRS	12/26/85	.T.	/ /		/ /	DOCUMENT	1
IN-86-110-001	INADQ ICE LOADING	NSRS	10/25/85	.T.	/ /		10/30/85	DESIGN	1
IN-86-112-001	USE OF TOOLS NOT DOC	NSRS	12/12/85	.T.	01/30/86	T	02/05/86	OPERATIONS	1
IN-86-115-001	ANCH BEING OVERTORQU	NSRS	02/04/86	.T.	/ /		/ /	CIVIL	1
IN-86-119-001	INADEQUATE CONDUITS	NSRS	10/09/85	.T.	/ /		/ /	ELECTRICAL	1
IN-86-122-001	CRACKS IN WF 33 BEAM	NSRS	10/10/85	.T.	/ /		10/16/85	MATERIAL	1
IN-86-124-001	LOW GRADE STEEL	NSRS	01/13/86	.P.	/ /		01/15/86	MATERIAL	1
IN-86-134-001	PROECDURES/DRAWINGS	NSRS	01/06/85	.P.	/ /		01/08/86	DOCUMENT	1
IN-86-134-002	IRN POLICY	NSRS	12/03/85	.T.	/ /		/ /	QA	1
IN-86-135-003	LINES NOT INSPECTED	NSRS	12/09/85	.T.	/ /		/ /	HANGERS	1
IN-86-143-002	WELDER CERT BACKDATE	ERT	10/24/85	.T.	/ /		/ /	WELDING	1
IN-86-145-002	CONCRETE LINING APAR	NSRS	10/03/85	.P.	/ /		/ /	MECHANICAL	1
IN-86-150-001	TRACEABILITY NOT ATT	ERT	11/27/85	.T.	/ /		/ /	WELDING	1
IN-86-155-002	HANGER UNACCEP WELDS	NSRS	11/27/85	.P.	/ /		11/29/85	WELDING	1
IN-86-155-004	WELDS MAY NOT INSPEC	NSRS	10/22/85	.P.	/ /		10/22/85	WELDING	1
IN-86-158-005	CONDUITS NOT PLUGGED	NSRS	01/09/86	.T.	/ /		/ /	DESIGN	1
IN-86-158-007	CUTS CLOSE TO CONDUI	NSRS	01/09/86	.T.	/ /		/ /	WELDING	1
IN-86-167-001	NO TRACEABIL OF RODS	ERT	11/27/85	.T.	/ /		/ /	WELDING	1

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IN-86-167-003	WELDING RODS INADEQU	ERT	01/29/86	.T.	/ /		/ /	WELDING	1
IN-86-167-004	UNQUALIFIED WELDER	ERT	02/06/86	.F.	/ /		02/10/86	WELDING	1
IN-86-167-005	WELDER REQUAL BACKDT	ERT	10/24/85	.T.	/ /		/ /	WELDING	1
IN-86-167-X06	WELDER CERT CARD FAL	ERT/OGC	10/24/85	.T.	/ /		/ /	WELDING	1
IN-86-169-001	CONDUIT HEAT DAMAGED	NSRS	11/26/85	.T.	01/21/86	F	/ /	ELECTRICAL	1
IN-86-173-001	DESIGN CALCULATIONS	NSRS	10/28/85	.T.	12/20/85		/ /	DESIGN	1
IN-86-183-001	BOLTS INSTAL STL CON	NSRS	01/09/86	.F.	/ /		01/13/86	MATERIAL	1
IN-86-184-002	CLASSIFICATION PIPIN	NSRS	12/18/85	.T.	/ /		12/24/85	MATERIAL	1
IN-86-184-004	PIPE SIZES	NSRS	12/18/85	.T.	/ /		12/24/85	WELDING	1
IN-86-190-003	ANCHOR NOT TEST INDI	ERT	10/24/85	.T.	/ /		10/30/85	CIVIL	1
IN-86-199-001	CAB PULL/REQ PER QCI	NSRS	10/31/85	.T.	/ /		11/04/85	ELECTRICAL	1
IN-86-200-003	SUPPOR NOT SAFE	NSRS	12/11/85	.F.	/ /		12/12/85	CIVIL	1
IN-86-201-001	CAB PULL LIMIT EXCEE	NSRS	10/31/85	.T.	/ /		11/04/85	ELECTRICAL	1
IN-86-205-001	ERCW UNSUITABLE	NSRS	12/03/85	.F.	/ /		12/11/85	MECHANICAL	1
IN-86-207-001	SI REQ TO MUCH TIME	NSRS	12/17/85	.T.	02/06/86		/ /	OPERATIONS	1
IN-86-210-001	HEAT EXCH TUBES INAD	ERT	11/05/85	.T.	/ /		/ /	DESIGN	1
IN-86-217-001	UNCERT CONCRE FINISH	ERT	02/03/86	.T.	/ /		02/04/86	CRAFT	1
IN-86-221-001	RED HEADS NOT REMOVE	NSRS	12/09/85	.T.	/ /		12/12/85	CIVIL	1
IN-86-221-004	CLEANERS NOT APPVD	NSRS	10/10/85	.T.	12/06/85	T	12/12/85	MATERIAL	1
IN-86-226-001	HARAS FOR REP QC	NSRS	11/11/85	.T.	/ /		/ /	QA	1
IN-86-232-001	REPAIR ERCW VIOLAT	NSRS	10/03/85	.F.	/ /		/ /	MECHANICAL	1
IN-86-232-X03	PCRS NOT APPROVED	NSRS	01/23/86	.T.	/ /		/ /	CONSTRUCTI	1
IN-86-259-001	FAILURE USE FUSE LIN	NSRS	10/31/85	.T.	/ /		11/04/85	ELECTRICAL	1
IN-86-259-003	PVC CONDUITS BROKEN	NSRS	12/03/85	.F.	/ /		12/06/85	ELECTRICAL	1
IN-86-259-004	INADEQ CABLE PULL	NSRS	10/31/85	.T.	/ /		11/04/85	ELECTRICAL	1
IN-86-259-005	OVERFILLED CABLE TRA	NSRS	11/14/85	.T.	02/06/86		/ /	ELECTRICAL	1
IN-86-259-006	INADQ SEPAR OF CABLE	NSRS	11/01/85	.T.	01/06/86		/ /	ELECTRICAL	1
IN-86-259-X11	TVA PROC NO IEEE STD	NSRS	11/14/85	.F.	/ /		/ /	DESIGN	1
IN-86-259-X13	FOREIGN OBJS IN CONC	NSRS	01/06/86	.T.	/ /		/ /	CIVIL	1
IN-86-262-002	OVERCROWDING CABLES	NSRS	11/14/85	.T.	02/06/86		/ /	ELECTRICAL	1
IN-86-262-003	EXCEED MAX PULL TENS	NSRS	10/31/85	.T.	/ /		11/04/85	ELECTRICAL	1
IN-86-262-005	INADEQ BOLTS FOR TRA	NSRS	01/07/86	.T.	/ /		01/10/86	HANGERS	1
IN-86-263-001	QA DOCU NOT MEET STD	NSRS	02/03/86	.T.	/ /		02/04/86	DOCUMENT	1
IN-86-266-X09	LACK OF COVERAGE	NSRS	10/31/85	.F.	/ /		11/04/85	ELECTRICAL	1
IN-86-268-003	IMPROPER INSTAL CABL	NSRS	11/01/85	.T.	01/06/86		/ /	ELECTRICAL	1
IN-86-290-001	IRNS NOT QUAL RECORD	NSRS	12/03/85	.T.	/ /		/ /	QA	1
IN-86-291-007	SECURITY CLEAR PERS	NSRS	12/03/85	.T.	01/10/86	T	01/17/86	OPERATIONS	1
IN-86-294-002	INADQ WELD BASE PLAT	NSRS	01/08/86	.T.	/ /		01/10/86	CIVIL	1
IN-86-303-002	HOUSEKEEP NEEDS IMPR	NSRS	01/24/86	.F.	/ /		01/21/86	CONSTRUCTI	1
IN-86-305-001	LACK OF CONCRETE BON	NSRS	01/13/86	.F.	/ /		01/15/86	CIVIL	1
IN-86-305-002	NO FIRE DAMPERS	NSRS	12/10/85	.F.	/ /		12/10/85	DESIGN	1
IN-86-314-004	INADQ CABLE SEPARATI	NSRS	11/27/85	.T.	/ /		11/29/85	ELECTRICAL	1
IN-86-316-002	INCOMPLETE WORK PKG	NSRS	12/18/85	.T.	/ /		/ /	OPERATIONS	1
IN-86-316-003	WORK PKG VS MANUAL	NSRS	12/18/85	.T.	/ /		/ /	OPERATIONS	1
IN-86-316-005	WORK PKG INCOMPLETE	NSRS	12/18/85	.T.	/ /		/ /	OPERATIONS	1
IN-86-316-006	WORK PKGS INCOMPLETE	NSRS	12/18/85	.T.	/ /		/ /	OPERATIONS	1
IN-86-316-007	ENG INCOMP WORK PKGS	NSRS	12/18/85	.T.	/ /		/ /	OPERATIONS	1

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IN-86-316-X09	ENG DISREGARD MANUAL	NSRS	12/18/85	.T.	/ /		/ /	OPERATIONS	1
NS-85-001-001	INACCUR WELD INSPECT	ERT/OGM	08/13/85	.T.	09/27/85	F	/ /	WELDING	1
NS-85-002-001	BFN/SUPTS ON RHR SYS	ERT	10/12/85	.T.	/ /		/ /	OPERATIONS	1
NS-85-004-001	INADEQ ORIFICE PLATE	NSRS	12/17/85	.T.	02/06/86		/ /	DESIGN	1
PH-85-001-002	INST LNS SLOPE PROB	ERT	07/06/85	.T.	09/20/85	T	09/23/85	INSTRUMENT	1
PH-85-003-021	ENG EVAL NOT CONDUCT	NSRS	10/10/85	.T.	/ /		10/16/85	QA	1
PH-85-006-001	CHANGES TO 050 NOTES	NSRS	08/09/85	.F.	/ /		08/09/85	HANGERS	1
PH-85-012-001	INSPECT OF WELDS	ERT	07/19/85	.T.	/ /		07/19/85	WELDING	1
PH-85-013-001	'OFF-BRAND' WELD ROD	ERT	01/29/86	.T.	/ /		/ /	WELDING	1
PH-85-014-002	INSPECT NOT PERFORMD	ERT/OGC	12/14/85	.F.	/ /		/ /	INSPECTION	1
PH-85-018-001	AUDIT FINDS WITHHELD	ERT	07/10/85	.F.	/ /		07/10/85	QA	1
PH-85-022-001	ORIFICE PLATES ERROR	NSRS	12/17/85	.T.	/ /		/ /	DESIGN	1
PH-85-038-001	OE PROCEDURE REVISIO	NSRS	12/17/85	.T.	/ /		12/17/85	DESIGN	1
PH-85-042-001	INADEQ USE OF BOLTS	NSRS	01/06/86	.F.	/ /		/ /	DESIGN	1
WI-85-003-001	FALSE WELD CERTF CRD	ERT	10/24/85	.T.	/ /		/ /	WELDING	1
WI-85-003-X02	WELDER CERT CARD FAL	ERT/OGC	10/24/85	.T.	/ /		/ /	WELDING	1
WI-85-013-003	INSPECT THRU PAINT	ERT	11/06/85	.T.	/ /		/ /	WELDING	1
WI-85-016-001	PROCEDURE VIOLATIONS	ERT	11/01/85	.F.	/ /		/ /	CIVIL	1
WI-85-029-002	INADEQ WELD INSPECT	ERT	02/06/86	.T.	/ /		/ /	WELDING	1
WI-85-035-007	UNCERTIFIED WELDER	ERT	01/24/86	.F.	/ /		01/24/86	WELDING	1
WI-85-040-001	VOID/WI-85-040-006	NSRS	11/19/85	.F.	/ /		/ /	MECHANICAL	1
WI-85-040-002	INADQ PROC/INSP PLAN	NSRS	11/19/85	.F.	/ /		/ /	MECHANICAL	1
WI-85-040-004	LINES INADQ CONSTRUC	ERT	01/28/86	.T.	/ /		/ /	CIVIL	1
WI-85-041-001	WELD MAT INADEQUATE	ERT	11/27/85	.T.	/ /		/ /	WELDING	1
WI-85-041-014	STELL MARKINGS	NSRS	01/31/86	.T.	/ /		/ /	MATERIAL	1
WI-85-053-003	IMPORP WELDING DOCUM	NSRS	11/14/85	.T.	12/31/85		/ /	WELDING	1
WI-85-053-006	TEST DIR NOT QUAL	NSRS	10/25/85	.F.	12/20/85	T	12/27/85	CONSTRUCTI	1
WI-85-053-007	ORIG DOCUMENT LOST	NSRS	01/06/86	.F.	/ /		/ /	DOCUMENT	1
WI-85-054-003	DRAINS PLUGGED UP	NSRS	11/22/85	.F.	/ /		11/27/85	MECHANICAL	1
WI-85-055-001	WELDER RECERTIFICATI	ERT	09/24/85	.T.	/ /		10/02/85	WELDING	1
WI-85-056-001	NOT FOLLOW CODE REQU	ERT	09/24/85	.T.	/ /		10/02/85	WELDING	1
WI-85-065-001	INADQ INSTAL HANGERS	NSRS	01/08/86	.T.	/ /		01/10/86	HANGERS	1
WI-85-084-001	WELDER CERTIFICATION	ERT	11/12/85	.T.	01/17/86		/ /	WELDING	1
WI-85-091-014	SNUBBER CONTROL	NSRS	02/03/86	.T.	/ /		/ /	MATERIAL	1
XX-85-001-001	SQN/D-G BATTERIES	NSRS	11/18/85	.T.	12/30/85		/ /	QA	1
XX-85-007-002	SQN/LEAK DUE TO MGMT	NSRS	12/13/85	.F.	/ /		12/13/85	OPERATIONS	1
XX-85-009-002	SQN/PERSONAL SAFETY	NSRS	12/20/85	.F.	/ /		12/27/85	OPERATIONS	1
XX-85-010-001	SQN/VOIDED HANGERS	ERT	01/29/86	.F.	/ /		/ /	HANGERS	1
XX-85-013-001	SQN/WRONG WELD ROD	ERT	08/22/85	.F.	/ /		08/27/85	WELDING	1
XX-85-016-001	BFN/UNTR: CRAFT PERS	NSRS	01/31/86	.T.	/ /		/ /	QA	1
XX-85-019-001	BLN/AUDIT FINDINGS	ERT	07/10/85	.F.	/ /		07/10/85	QA	1
XX-85-020-001	SQN/ECNS APPLICABILI	NSRS	11/19/85	.F.	/ /		11/19/85	OPERATIONS	1
XX-85-027-X07	SQN/VIOLATION SIGNOP	ERT	01/29/86	.F.	/ /		02/07/86	QA	1
XX-85-028-001	SQN/INCREASE IN RWP	ERT	11/22/85	.F.	01/21/86		/ /	OPERATIONS	1
XX-85-028-X02	SQN/FALSIFIED SIGNAT	NSRS	12/26/85	.T.	01/17/86	T	01/30/86	QA	1
XX-85-028-X03	SQN/RADIA WORK PERMI	NSRS	12/26/85	.T.	01/17/86	T	01/30/86	QA	1
XX-85-033-006	SQN/FOREMAN MATERIAL	NSRS	12/09/85	.F.	/ /		12/10/85	MATERIAL	1

TVA EMPLOYEE CONCERN PROGRAM
WATTS BAR NUCLEAR PLANT
NUCLEAR REGULATORY COMMISSION LISTING

QTC_NUMBER	SUBJECT	INVEST ORG	DATE REPORT	S U B ?	DATE RESPONSE	A C C ?	DATE INVEST CLOSED	KEY WORD	#
XX-85-038-001	SQN/SEP OF CARBON/SS	ERT	10/10/85	.T.	01/17/86	T	/ /	MATERIAL	1
XX-85-041-001	SQN/WRONG TYPE ROD	NSRS	01/02/86	.F.	01/18/86		01/03/86	WELDING	1
XX-85-046-001	SQN/INST SENSING LIN	NSRS	12/24/85	.T.	01/29/86		/ /	INSTRUMENT	1
XX-85-051-001	SQN/RADIATION MONITO	NSRS	11/26/85	.T.	/ /		/ /	OPERATIONS	1
XX-85-052-001	SQN/INADQ DESIGN DOO	NSRS	11/26/85	.T.	/ /		/ /	DESIGN	1
XX-85-053-002	SQN/MISSING EVAL DOC	NSRS	01/30/86	.F.	/ /		/ /	DESIGN	1
XX-85-054-001	SQN/VIOLAT SIGN-OFFS	NSRS	11/26/85	.F.	/ /		11/29/85	WELDING	1
XX-85-062-002	BPN/BLN/INADQ FILING	NSRS	12/26/85	.T.	01/17/86		/ /	DOCUMENT	1
XX-85-063-001	SQN/FAIL VERIF SYSTE	NSRS	01/31/86	.F.	/ /		02/11/86	OPERATIONS	1
XX-85-065-001	SQN/IMPROPER INSPECT	NSRS	12/09/85	.F.	/ /		12/10/85	WELDING	1
XX-85-067-001	SQN/PLANT OPERATIONS	NSRS	01/31/86	.F.	/ /		02/07/86	OPERATIONS	1
XX-85-068-007	SQN/REPLAC SPOOL PIE	NSRS	12/09/85	.F.	/ /		12/10/85	QA	1
XX-85-070-007	SQN/DESIGN DRAWINGS	NSRS	12/20/85	.T.	/ /		12/24/85	FINGERS	1
XX-85-077-X04	SQN/FALSIFIED DRAWIN	NSRS/OGC	01/29/86	.F.	/ /		02/07/86	DOCUMENT	1
XX-85-083-001	SQN/WELD INSPECTIONS	NSRS	12/12/85	.F.	/ /		12/13/85	WELDING	1
XX-85-086-003	SQN/DESIGN DEFICIENC	NSRS	11/29/85	.T.	01/27/86		/ /	WELDING	1
XX-85-087-001	SQN/CONTAINMENT COAT	NSRS	01/22/86	.T.	/ /		/ /	OPERATIONS	1
XX-85-093-001	SQN/INADQ TRAIN ENGI	NSRS	12/09/85	.F.	/ /		/ /	OPERATIONS	1
XX-85-093-002	BLN/INADQ TRAIN ENGI	NSRS	01/31/86	.F.	/ /		/ /	OPERATIONS	1
XX-85-093-003	BPN/INADQ TRAIN ENGI	NSRS	11/29/85	.F.	/ /		/ /	OPERATIONS	1
XX-85-096-005	SQN/MONITOR TUBE PRO	NSRS	11/26/85	.T.	/ /		11/29/85	OPERATIONS	1
XX-85-098-002	SQN/RADIATION AREAS	NSRS	12/09/85	.F.	/ /		12/10/85	OPERATIONS	1
XX-85-099-001	SQN/SECURITY AT PLAN	NSRS	12/09/85	.F.	/ /		12/10/85	OPERATIONS	1
XX-85-101-003	SQN/RADIOACTIVE SPIL	NSRS	01/31/86	.T.	/ /		02/07/86	OPERATIONS	1
XX-85-101-004	SQN/MIN. RADIAT EXPO	NSRS	12/27/85	.T.	01/17/86		/ /	OPERATIONS	1
XX-85-102-011	SQN/DEFECTS ID BY MA	NSRS	12/11/85	.F.	/ /		12/11/85	WELDING	1
XX-85-108-001	SQN/RMS NEVER INSP	NSRS	12/20/85	.F.	/ /		12/27/85	WELDING	1
XX-85-108-002	SQN/WELD INSP PROCES	NSRS	12/20/85	.F.	/ /		12/27/85	WELDING	1
XX-85-120-002	SQN/QA PROCEDURE	NSRS	01/02/86	.T.	/ /		01/03/86	MATERIAL	1
XX-85-122-020	SQN/NUREG 0700	NSRS	01/27/86	.T.	/ /		/ /	DESIGN	1
XX-85-122-022	BPN/NUREG-0700	NSRS	01/31/86	.T.	/ /		/ /	DESIGN	1
*** Total ***									

ERT INVESTIGATION REPORT

CONCERN NO: IN-85-954-001

CONCERN: Employees (department known) are initialing checklists (known) without actually performing work required by checklists. Departmental management has issued disciplinary letters and time off to involved employees, yet practice continues. CI stated that the reason this problem exists is that NRC management has told TVA management to make the paperwork look good and don't worry about anything else.

INVESTIGATION
PERFORMED BY: W. G. Hubacek

DETAILS: On 1/13/86 ERT contacted the concerned individual (CI) who stated that since this concern was reported to ERT, the problem has been corrected. The CI has not witnessed any wrongdoing by PSS and feels the problem stated in this concern no longer exists.

During a later contact by ERT, the CI declined to cooperate further in the investigation of this concern and requested that this concern be closed.

This concern is closed.

Prepared By W. G. Hubacek 1/27/86
Date
Reviewed By [Signature] 1/27/86
Date

UNITED STATES GOVERNMENT

Memorandum

TENNESSEE VALLEY AUTHORITY

TO: W. T. Cottle, Site Director, Watts Bar Nuclear Plant

FROM: K. W. Whitt, Director of Nuclear Safety Review Staff, E3A8 C-K

DATE: FEB 07 1986

SUBJECT: NUCLEAR SAFETY REVIEW STAFF INVESTIGATION REPORT TRANSMITTAL

Transmitted herein is Report No. IN-85-008-004

Subject Improperly Installed Conduit

Concern No. IN-85-008-004

and associated recommendations for your action/disposition.

It is requested that you respond to this report and the attached recommendations by March 6, 1986. Should you have any questions, please contact B. F. Siefken at telephone 6230-K.

Recommend Reportability Determination: Yes No


for Director, NSRS/Designee

BFS:JTH

Attachment

cc (Attachment):

H. L. Abercrombie, SQN
W. Bibb, BFN
James P. Darling, BLN
R. P. Denise, LP6N40A-C

D. R. Nichols, E10A14 C-K
QTC/ERT, Watts Bar Nuclear Plant
E. K. Sliger, LP6N48A-C

--Copy and Return--

To : K. W. Whitt, Director of Nuclear Safety Review Staff, E3A8 C-K

From: _____

Date: _____

I hereby acknowledge receipt of NSRS Report No. _____
Subject _____ for action/disposition.

Signature

Date



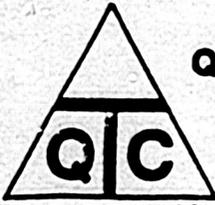
NSRS RECOMMENDATIONS

EMPLOYEE CONCERN NUMBER: IN-85-008-004

Q-85-008-004-01: INCORRECTLY IDENTIFIED CONDUIT

The incorrectly identified conduit in Section (b)ii of the attached report needs to have the appropriate drawing changes made.

Principally prepared by Bruce F. Siefken.



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P.O. BOX 600

Sweetwater, TN 37874

(615)365-4414

ERT INVESTIGATION REPORT

PAGE 1 OF 7

CONCERN NO: IN-85-008-004

CONCERN: Unit 2, Reactor Building, Elev. 751', AZ. 300 degrees, Junction Box 27 may have an improperly installed conduit. Details known to QTC, withheld due to confidentiality. No further information may be released. Construction Department Concern. CI has no further information.

INVESTIGATION

PERFORMED BY: K. M. Vadlamani

DETAILS

PERSONNEL CONTACTED: CONFIDENTIAL

DOCUMENTS REVIEWED:

WBNP QCI - 3.09, "Conduit Support Program", Revision 2, dated 2/28/85

WBNP QCP - 3.03, "Inspection of Electrical Conduit and Junction Boxes", Revision 18, dated 2/27/85.

WBNP QCP - 3.09, "Inspection of Supports for Electrical Conduit and Junction Box," Revision 2, dated 2/28/85

WBNP QCI - 1.07, "Work Release" Revision 11, Addendum 1, dated 4/12/85

WBNP Unit 2 Work Release: WR 25598

WBNP Drawings:

45W874-1, Revision 18, "Reactor Building - Unit 2, Conduit and Grounding - Floor El. 744.5, Floor Plan."

CONCERN NO: IN-85-008-004

DETAILS, continued**DOCUMENTS REVIEWED, continued****WBNP Drawings, continued**

- 45W874-2, Revision 21, "Reactor Building-Unit 2, Conduit and Grounding - Floor El 744.5, Ceiling Plan."
- 45W874-3, Revision 7, "Reactor Building-Unit 2, Conduit and Grounding - Floor El 744.5, Details Sheet 1."
- 45W872-2, Revision 20, "Reactor Building-Unit 2, Conduit and Grounding - Floor El.716.0, Ceiling Plan."
- 45W872-8, Revision 23, "Reactor Building-Unit 2, Conduit and Grounding - Floor El.716, Details Sheet 6."
- 45W872-13, Revision 25, "Reactor Building-Unit 2, Conduit and Grounding - Floor El 716.0, Details Sheet 11."
- 15 NP 860-72, Revision 1, "Units 1 & 2 - Conduit & Grounding Name Plates, Sheet 72."

WBNP Unit 2 Field Change Requests:

E-20,716	Dated 9/23/85
E-20,719	Dated 9/23/85
E-20,729	Dated 10/10/85

WBNP Nonconformance Report: 5829 Revision "0" dated 10/5/84
Revision "1" dated 1/30/85

SUMMARY OF INVESTIGATION:

This concern is not substantiated. This investigation was conducted from 1/14/86 to 1/20/86. The conduit in question was inspected in coordination with and by the Construction Electrical Quality Control (EQC) Unit and was found to be acceptable. The following is a brief overview of the investigation results:

1. A walkdown by ERT, as well as a review of the previous inspections of the subject conduit, determined that the installation was acceptable.

CONCERN NO: IN-85-008-004

DETAILS, continued**SUMMARY OF INVESTIGATION, continued**

2. During the course of this investigation discrepancies were noted in some conduit and grounding installation drawings. The noted discrepancies are being addressed in WBNP-Construction NCR 6579. In addition, TVA Reply Memorandum (dated 1/21/86) was sent to the assistant construction engineer for necessary resolution and/or clarification of items that were not addressed in the NCR.
3. ERT Field walkdown inspection identified that nonconforming condition tags placed on conduit supports for to NCR 5829 (closed on 3/18/85), were not completely removed by the responsible individual. Examples: Conduit support: #30889, 30890.

FINDINGS:

A review of the ERT initial interview file indicated that a conduit, #2IN430, terminating at the Junction Box #27, located in the Unit 2 Reactor Building, Azimuth 300 degrees, El. 751', was alleged to have been improperly installed. The allegation of improper installation appears to be based on an incident that took place at the time of the subject conduit installation in 1984 (Ref: ERT File IN-85-008-003). The investigation objectives are to determine:

- * The conduit installation was improper in 1984;
- * If the conduit installation is acceptable, in accordance with the current quality control inspection procedure for conduit installation.

Applicable conduit installation drawings, procedures and corresponding inspection procedures were reviewed. During the course of this review, it was determined that the identifier, 2IN430, (as provided by the concerned individual) for the suspect conduit was incorrect. This is based on a review of WBNP Drawing 45W874-3, Revision 7, "Reactor Building-Unit 2, Conduit & Grounding - Floor Elevation 744.5 Detail Sheet 1," detail number N3-N3. The drawing detail indicated that the

CONCERN NO: IN-85-008-004

DETAILS, continued

FINDINGS, continued

actual conduit located at junction box 27 was 2-2RM-293-0430 and that it was installed between electrical penetration 2-PENT-293-22 and junction box 2-JB-293-27. The size of the conduit was noted to be 1-1/2 inches instead of 2 inches in diameter as indicated by the CI. The conduit documentation program status index for Unit 2 indicated that the length of the conduit (installed) was approximately about 100 linear feet.

The investigator reviewed documentation relative to conduit #2-2RM-293-0430 and junction box 2-JB-293-27. The review indicated that the installation of the conduit and the junction box were inspected in accordance with QCP-3.03, Revision 18, and were initially accepted on 6-6-85 and 6-17-85, respectively. The conduit was re-inspected on 10-1-85 as a result of the rework specified on Work Release 25598 dated 9-26-85. This work release specified removal of conduit straps for conduits 2-2NM-293-3030, 3029 & 3028 and 2-2RM-293-0430, to facilitate the inspection of the conduit support welds on support 2-CSP-293-6463. Therefore, the subject conduit had to be re-inspected and this inspection documented. This re-inspection of the conduit was noted to be satisfactory.

From the review of the applicable inspection documentation, it was noted that the installation activities were properly accomplished and that the conduit was found to be acceptable by the Construction Electrical Quality Control Unit, at the time of original installation. The following is a list of findings resulting from this investigation:

1. A comparison review of the information provided by the concerned individual with the applicable drawing & details indicated that the conduit's diameter is to be 1 1/2 inches and not 2 inches. The subject conduit is identified, (as per drawing 45W874-3, detail N3-N3 and 45W874-1 at electrical penetration 22) as 2-2RM-293-0430.
2. The subject conduit and the junction box 27 were previously inspected in accordance with QCP-3.03, Revision 18 (6-6-85 & 6-17-85, respectively), and were found to be acceptable.

CONCERN NO: IN-85-008-004

DETAILS, continued

FINDINGS, continued

3. The subject conduit was subsequently re-inspected due to a rework (support weld inspection) as specified on work release 25598, dated 9-26-85, and was found to be acceptable on 10/1/85.
4. A field walkdown inspection was performed on 1-17-86 with the coordination of Construction Electrical Quality Control Inspection Personnel. This field inspection did not reveal any deficiencies relative to the installation of conduit 2-2RM-293-0430 and junction box 2-JB-293-27.
5. During the review of conduit & grounding detail drawing 45W874-3, Revision 7, Detail N3-N3, it was noted that the following conduit numbers and sizes were associated with junction box 27:

	<u>Unit</u>	<u>Function</u>	<u>Conduit Schedule #</u>	<u>Conduit Size in Inches</u>
(a)	2	RM	421	1 1/2" I Nearside (NS)
(b)	2	RM	420	1" I Farside (FS)
(c)	2	RM	429	1" I
(d)	2	RM	430	1 1/2" I Nearside (NS)
(e)	2	PLC	1111	1 1/2" I Farside (FS)

All of the conduit identifiers, configuration of conduits relative to the drawing detail N3-N3, and conduit diameters were satisfactory, with the exception of the following:

- (a) The as-installed conduit diameter of conduit 2-3RM-293-0429 is 1 1/2 inches as opposed to 1 inch as per Detail N3-N3. Drawings 45W874-2, Revision 18 and 45W872-13, Revision 25 identify conduit 2-3RM-293-0429 as 1 1/2 inches in diameter. A review of the installation inspection documentation for conduit 2-3RM-293-0429 indicated that this conduit was inspected in accordance with the requirements of Drawings 45W872-13 and 45W874-1 and accepted by the Electrical Quality Control (EQC) personnel. In order to resolve the discrepancy relative to the size of

DETAILS, continued

FINDINGS, continued

(a) continued

conduit, EQC has issued NCR #6579, on 1-20-86. Also, the printout and microfish (microfiche) showed 1 inch conduit running from Penetrations 48 to Junction Box 27. Drawings 45W872-13, Revision 25 shows only one end of conduit terminating at Junction Box 27. This discrepancy is also addressed on NCR 6579.

(b) While reviewing the Unit 2 Conduit & Grounding Ceiling Plan Drawing 45W872-2, Revision 20, and the corresponding details (sheet 6 of drawing 45W872-8, Revision 23) the following discrepancies were noted:

- i) Section A8-A8 of drawing 45W872-2, Revision 20 is incorrectly listed as detail B8-B8 on sheet 6 of Drawing 45W987-8, Revision 23.
- ii) The conduit numbers 1I-LTB 1330 & 2I-LTB 1329 in Section A8-A8 and 1 1/2 I-LTB 1341 in Section C8-C8 of drawing 45W872-2, Revision 20, were listed as 1I-LBT 1330 & 2I-LBT 1329 in detail B8-B8 and 1 1/2 I-LBT 1341 in detail C8-C8 of drawing 45W872-8, Revision 23.

Item (b) i. above was addressed to the cognizant assistant construction engineer for clarification. Item (b).ii was noted during the preparation of this report and therefore it could not be addressed for clarification.

Contact with the CI:

On 1-21-86, the CI was contacted to discuss the results of the conduit inspection. The CI has no further concerns relative to the conduit in question.

CONCERN NO: IN-85-008-004

DETAILS, continued

CONCLUSIONS:

The subject concern is not substantiated and this conclusion is based upon the following investigation results:

1. The conduit installation in question, i.e. 2-2RM-293-0430, was noted to have been inspected on 6-6-85 and 10-1-85 by the EQC inspection personnel and the installation was found to be acceptable in accordance with the inspection procedure, QCP-3.03, Revision 18.
2. The junction box 2-JB-293-27 was inspected on 6-17-85 by EQC inspection personnel and was found to be acceptable in accordance with the inspection procedure, QCP-3.03, Revision 18.
3. A field walkdown inspection, performed on 1-17-86 by the ERT and EQC personnel, has indicated that the conduit 2-2RM-293-0430 and junction box 2-JB-293-27 conforms with the current quality control inspection procedure QCP-3.03, Revision 18.

OBSERVATION:

During the walkdown inspection nonconforming condition identification tags (closed NCR 5829) were observed still hanging from conduit supports 30889 and 30890. The responsible construction engineering personnel were notified for necessary action.

Accepted by
B. P. Jeffrey
2-6-86

PREPARED BY: Krishna Mohan Vadlamani 2/1/86
DATE

REVIEWED BY: O. P. Jones 1/31/86
DATE

REQUEST FOR REPORTABILITY EVALUATION

1. Request No. IN-85-008-004 _____
(ERT Concern No.) (ID No., if reported)

2. Identification of Item Involved: _____
(Nomenclature, system, manuf., SN, Model, etc.)

3. Description of Problem (Attach related documents, photos, sketches, etc.)
Unit 2 Reactor Building, Elev. 751', A2 300 degrees junction box 27 may have
an improperly installed conduit. Details known to OTC, withheld due to
confidentiality. No further information may be released. Construction Department

4. Reason for Reportability: (Use supplemental sheets if necessary)

A. This design or construction deficiency, were it to have remained uncorrected, could have affected adversely the safety of operations of the nuclear power plant at any time throughout the expected lifetime of the plant.

No Yes _____ If Yes, Explain: _____

AND

B. This deficiency represents a significant breakdown in any portion of the quality assurance program conducted in accordance with the requirements of Appendix B.

No Yes _____ If Yes, Explain: _____

OR

C. This deficiency represents a significant deficiency in final design as approved and released for construction such that the design does not conform to the criteria bases stated in the safety analysis report or construction permit.

No Yes _____ If Yes, Explain: _____

OR

REQUEST FOR REPORTABILITY EVALUATION

D. This deficiency represents a significant deficiency in construction of or significant damage to a structure, system or component which will require extensive evaluation, extensive redesign, or extensive repair to meet the criteria and bases stated in the safety analysis report or construction permit or to otherwise establish the adequacy of the structure, system, or component to perform its intended safety function.

No Yes _____ If Yes, Explain: _____

OR

E. This deficiency represents a significant deviation from the performance specifications which will require extensive evaluation, extensive redesign, or extensive repair to establish the adequacy of the structure, system, or component to perform its intended safety function.

No Yes _____ If Yes, Explain: _____

IF ITEM 4A, AND 4B OR 4C OR 4D OR 4E ARE MARKED "YES", IMMEDIATELY HAND-CARRY THIS REQUEST AND SUPPORTING DOCUMENTATION TO NSRS.

This Condition was Identified by:

Ob. Thero
ERT Group Manager

365-4464
Phone Ext.

Michelle
ERT Project Manager

365-4426
Phone Ext.

Acknowledgment of receipt by NSRS

Bruce L. Pedrin
Signed

Date 2-6-86

Time 09:30

UNITED STATES GOVERNMENT

Memorandum

TENNESSEE VALLEY AUTHORITY

TO: W. T. Cottle, Site Director, Watts Bar Nuclear Plant

FROM: K. W. Whitt, Director of Nuclear Safety Review Staff, E3A8 C-K

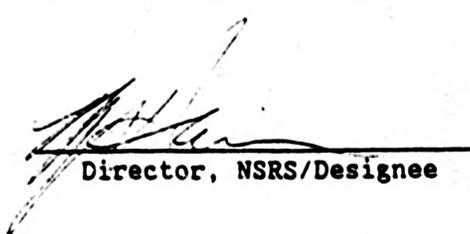
DATE: FEB 11 1986

SUBJECT: NUCLEAR SAFETY REVIEW STAFF INVESTIGATION REPORT TRANSMITTAL

Transmitted herein is NSRS Report No. IN-85-369-001Subject WAREHOUSE CLERKSConcern No. IN-85-369-001

and associated recommendations for your action/disposition.

It is requested that you respond to this report and the attached recommendations by March 10, 1986. Should you have any questions, please contact Bruce F. Siefken at telephone 6230.

Recommend Reportability Determination: Yes X No

 Director, NSRS/Designee

BFS:GDM

Attachment

cc (Attachment):

H. L. Abercrombie, SQN

W. Bibb, BFN

James P. Darling, BLN

R. P. Denise, LP6N40A-C

D. R. Nichols, E10A14 C-K

QTC/ERT, Watts Bar Nuclear Plant

E. K. Sliger, LP6N48A-C

--Copy and Return--

To : K. W. Whitt, Director of Nuclear Safety Review Staff, E3A8 C-K

From: _____

Date: _____

I hereby acknowledge receipt of NSRS Report No. IN-85-369-001
 Subject WAREHOUSE CLERKS for action/disposition.

Signature_____
Date

NSRS RECOMMENDATIONS

EMPLOYEE CONCERN NUMBER: IN-85-369-001

Q-85-369-001-01: "Warehouse Operations"

The deficiencies in segregation, labeling, and storage of materials identified in this report need to be corrected via a quality assurance document.

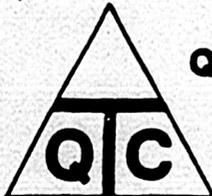
Q-85-369-001-02: "Training of Warehouse Clerks"

Warehouse clerks should be trained in the applicable QA requirements of their jobs. This training should be formal, documented, and completed under the QA program.

Q-85-369-001-03: "Adequacy of Issued Materials"

Since warehouse clerks were not properly trained and materials were found mislabeled and mislocated, an evaluation of the adequacy of material issued needs to be made and documented under the QA program.

Principally prepared by Bruce F. Siefken.



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P.O. BOX 600

Sweetwater, TN 37874

(615)365-4414

ERT INVESTIGATION REPORT

PAGE 1 OF 6

CONCERN NO: IN-85-369-001

CONCERN: Warehouse clerks are untrained and often mix safety and non-safety materials.

INVESTIGATION PERFORMED BY: Stephen P. Hans

DETAILS

PERSONNEL CONTACTED: CONFIDENTIAL

DOCUMENTS REVIEWED:

1. TVA Topical Report; TVA-TR75-1A, Revision 8
2. U. S. Nuclear Regulatory Guide, 1.38, Revision 2, May 1977, Quality Assurance Requirements for Packaging, Shipping, Receiving, Storage, and Handling of Items for Water Cooled Nuclear Power Plants
3. ANSI Standard N45.2.2, 1972, Packaging, Shipping, Receiving, Storage and Handling of Items for Nuclear Power Plants
4. TVA Division of Construction Quality Control Instruction, QCI, 1.06, Revision 1, December 21, 1983, Receiving
5. TVA Office of Construction Quality Control Instructions, QCI, 1.36, Revision 10, June 7, 1985, Storage and Housekeeping
6. Memorandum to Project Personnel Officers from C. Boyce Corn, Personnel Officer dated June 24, 1980. Subject: Consideration of Warehouse Clerk - Trainees for Positions in Engineering Organizations
7. Division of Construction Training Plan for Material Control Clerk, no date, no revision.

CONCERN NO: IN-85-369-001

DETAILS, continued

SUMMARY OF INVESTIGATION:

This concern is substantiated. The following activities were accomplished during the investigation process. First, a review of the TVA FSAR commitments for receipt, storage and handling of material was completed to gain understanding of the TVA requirement. Second, interviews with Material Control Clerks were performed to determine the training methods and controls applicable to the clerks. Third, material identification practices were reviewed with the warehouse supervisor and observed in the field. Fourth, interviews with Warehousemen (Teamsters) were conducted to determine whether they were cognizant of cases involving the mixing of safety and non-safety related materials in the past or present. Finally, a walkdown of the storage yards and warehouses was accomplished to determine if present controls, as implemented were adequate to prevent mixing of materials.

This investigation was conducted from January 8 to January 20, 1986.

FINDINGS:

The results of this investigation support the allegation of lack of training of Material Control Clerks and the mixing of safety related material with non-safety related material. The Watts Bar Nuclear Plant has been under construction since approximately 1972 and material started arriving on site for storage a short time after the start of construction.

In the area of training of "Material Control Clerks", or the personnel charged with the responsibility of carrying out the functions of a Material Control Clerk, regardless of the job title, the investigation established the existence of a training program for "Material Control Clerks" only, starting in mid-1980. This training program was exclusively "On-the-Job Training" (OJT) and consisted of rotating assignments in the various material control activities for specified time periods. An evaluation of performance of each clerk was performed by a three (3) member panel consisting of the Warehouse supervisor, a Union representation and an individual from TVA personnel. The training consisted of teaming new personnel with experienced personnel.

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DETAILS, continued

During the course of the investigation, however, it was determined that a common practice existed of teaming two newly assigned personnel together: instead of one experienced (i.e., SB-4) Material Control Clerk and one trainee (i.e., SB-2 or SB-3). Additionally, no formal training program was identified prior to 1980 for any type of material control personnel.

The Material Control Clerks interviewed during the investigation were generally knowledgeable about the present storage practices employed at the Warehouse. However, the majority of the Clerks exhibited a very poor understanding of the Quality Assurance requirements as they relate to receipt, storage and handling of material. The Clerks exhibit only a knowledge of "QA/Code" material/items, i.e., material which fall under the requirements of the ASME Code and is subjected to QA inspection. Since the ASME Code is only applicable to pressure retaining and support items, the understanding of the Clerks is limited to mechanical items and not to electrical, civil, HVAC items, etc., which may also be safety related, but non-ASME Code.

No formal training of Material Control Clerks to established and documented procedures was identified. The only written instructions pertaining to the warehouse activities do not prescribe the activities of the Material Control Clerks.

During the investigation, four (4) individuals were "in training". The present training program is not controlled or administered in accordance with original requirements. The three member evaluation board is no longer functioning, the Union representative and the individual from TVA personnel are no longer active in the program, and the specified time periods are no longer closely adhered to for the rotating job assignments.

These facts and the demonstrated lack of knowledge of the QA requirements on the part of the Material Control Clerks are justification for substantiating the concern about the "untrained clerks".

The walkdown of the warehouses and the laydown yards confirmed that the controls applied to separation of safety and non-safety materials have not always been adequate in the past, and the present controls, although much improved, are still inadequate.

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DETAILS, continued

During the walkdown, items were selected at random from the ledger office books (see attachment #1). These books are the primary source of control and accountability for material and items at Watts Bar Nuclear Plant. The items selected were then located and identified in the field. During this process, it was noted that valves marked and tagged "ASME" were stored with non-ASME valves. Piping material was misidentified (i.e., ASME Code large bore piping was identified as ASTM material). Additionally, several items had no identification (e.g., Concentric Reducers in Yard 1, Location C1) and some items were not in their proper storage locations. These individual problems are indicative of a lack of stringent controls in the warehouse.

The most significant problem noted during the walkdown was the existence of the uncontrolled "DC Construction Laydown Yard" located next to Warehouse Yard #2 and the "Engineering" Cable Yard located outside the Warehouse Controlled Cable Yard. These two uncontrolled material storage areas represent a total breakdown of the TVA commitment to Title 10 Code of Federal Regulation Part 50, Appendix B in the following areas. (See attachment for specifics.)

Criteria II: "providing control over activities affecting the quality of identified...components, to an extent consistent with their importance to safety"; in that material was stored in a completely uncontrolled environment.

Criteria VIII: "The identification and control of materials...throughout fabrication, erection, installation and use...". "Control measures shall be designed to prevent the use of incorrect or defective material." In that completed hanger, flat stock (Plate); I-Beams; cable tray hanger material (tube steel), etc., where not identified as to status, i.e., conforming, non-conforming, nor were they controlled as to their access, i.e., locked and fenced areas. This includes the Engineer Cable Storage area.

Criteria XV: "Control materials...which do not conform to requirements in order to prevent their inadvertent use..." "include...segregation..." in that non-conforming cable stored in the Warehouse Cable Storage area was not segregated. The cable was identified with a small red tag and red tape in some cases. The cable stored in the Engineering Storage area was totally uncontrolled.

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DETAILS, continued

Interviews with the warehouse personnel revealed that, prior to approximately 1977 to 1979 timeframe, all material was stored by nomenclature. (i.e., 1/4 inch valves: weld neck flange, etc.), regardless of their safety function, or quality classification.

Based upon: Inadequacies presently identified in the Warehouse controls: the uncontrolled environment identified in the DC Construction laydown and Engineering cable areas; the fact that items were stored by nomenclature, the concern identifying mixing of safety related and non-safety related materials is substantiated.

OBSERVATIONS:

During the investigation of the warehouse the following ANSI standard N45.2.2-1979 requirements were noted as being violated:

1. Paragraph 6.3.2 "Arrangement of items. Items stacked for storage shall be arranged so that rack cribbing or crates are bearing the full weight without distortion of the item;" in that boxes in warehouse # One (1) were stacked upon each other and were distorted. Also, piping material in Yard 1 D-6 was used to support the roof of a shed.
2. Paragraph 6.4.2(1) "Items in storage shall have all covers, caps...intact..." in that carbon steel piping material did not have end caps.

CONCLUSIONS:

This concern is substantiated. This conclusion is based upon the following deficiencies:

- Lack of knowledge of Material Control Clerks about QA requirements as they relate to the receipt, storage and handling of materials.
- The lack of an established program for training of Material Control Clerks prior to 1980.

Warehouse Walkdown
Items and Discrepancies List

A. The following items were selected from the ledger book and observed in the field.

	<u>Heat Number</u>
1. 6" sch 40 pipe, SA 312, 316 L	M7508
2. 4" sch 40 pipe, A 312, 316 L	None recorded
3. Flange, Orifice Union, SA 105-300# CS, SW	216841-MHA
4. I Beam 5" X 14.75', A 36	1815151

B. The following items were noted as discrepant.

<u>Item</u>	<u>Discrepancy</u>
1. 1/2" ball valve, SA479-316 SW 600#, Mark 37W2061218	Stored in non-safety location.
2. 14" sch 140 pipe, HT #2809-1-2, HT Lot #72376	Mismarked as ASTM A312-376 when material was ASME Sec III Class I
3. Concentric Reducers, HT Code AEA	Filled with water
4. Flange, Orifice Union, HT #216841-MHA	Stored in wrong location
5. I Beam 5" x 14.75, HT #1815151	Wrong HT number. Should be 1815151
6. Piping Material Yard #1B-6, Yard #1C-5	Uncapped or ends split
7. The roof of Building D-6, Yard #1	Brace of roof resting on piping material
8. I Beam in uncontrolled D.C. Laydown area identified as PM/QA/04 R 551661, 10' X 10" X 1/2", A500 Gr B, HT 77H14	Completely uncontrolled
9. Non-conforming cable - various types.	Uncontrolled.

FINAL

REQUEST FOR REPORTABILITY EVALUATION

1. Request No. NY-85-369-001 (ERT Concern No.) (ID No., if reported)

2. Identification of Item Involved: Warehouse Material Control Clerks
(Nomenclature, system, manuf., SN, Model, etc.)

3. Description of Problem (Attach related documents, photos, sketches, etc.)

Warehouse clerks are untrained and often mix safety and non-safety material.

4. Reason for Reportability: (Use supplemental sheets if necessary)

A. This design or construction deficiency, were it to have remained uncorrected, could have affected adversely the safety of operations of the nuclear power plant at any time throughout the expected lifetime of the plant.

No _____ Yes X If Yes, Explain: The inadvertent installation of non-safety related material in safety applications may cause failure of safety related components.

AND

B. This deficiency represents a significant breakdown in any portion of the quality assurance program conducted in accordance with the requirements of Appendix B.

No _____ Yes X If yes, Explain: Uncontrolled material violates Criteria II, VIII, and XV.

OR

C. This deficiency represents a significant deficiency in final design as approved and released for construction such that the design does not conform to the criteria bases stated in the safety analysis report or construction permit.

No X Yes _____ If Yes, Explain: _____

OR

REQUEST FOR REPORTABILITY EVALUATION

- D. This deficiency represents a significant deficiency in construction of or significant damage to a structure, system or component which will require extensive evaluation, extensive redesign, or extensive repair to meet the criteria and bases stated in the safety analysis report or construction permit or to otherwise establish the adequacy of the structure, system, or component to perform its intended safety function.

No _____ Yes X If Yes, Explain: A reevaluation of construction

documents and verification of materials as installed is required to
 assure all safety related systems were constructed of materials meeting the
 QR minimum requirements.

- E. This deficiency represents a significant deviation from the performance specifications which will require extensive evaluation, extensive redesign, or extensive repair to establish the adequacy of the structure, system, or component to perform its intended safety function.

No X Yes _____ If Yes, Explain: _____

IF ITEM 4A, AND 4B OR 4C OR 4D OR 4E ARE MARKED "YES", IMMEDIATELY HAND-CARRY THIS REQUEST AND SUPPORTING DOCUMENTATION TO NSRS.

This Condition was Identified by:

O B Shea
ERT Group Manager 365-4464
Phone Ext.

William J. ...
ERT Project Manager 365-4414
Phone Ext.

Acknowledgment of receipt by NSRS

Bruce J. Duffin
Signed _____ Date 2-6-86 Time 09:32