SPECIAL PROGRAM

TVA EMPLOYEE CONCERNS REPORT NUMBER: 235.1(8)

REPORT TYPE: SEQUOYAH ELEMENT

REVISION NUMBER: 1

TITLE: ELECTRICAL SAFETY

480V Power Receptacles Unsafe

PAGE 1 OF 8

#### REASON FOR REVISION:

1. Revised to incorporate TVA comments, revised CATD 235.01(B)-SQN-02.

	PRE	PARATION	
PREPARED BY:  Usuhlausuu SIG	NATURE	J. wheeler 2/	20/87 DATE
		EVIEWS	
TAS:  REVIEW COMMITTE  SIE  TAS:	TO LEAGUE NATURE	Farl Grédur 2/2	20/87 DATE
SIG	NATURE		DATE
	CON	CURRENCES	
8710290302 871023 PDR ADOCK 05000327 PDR		0	2 2/24/89 H 2-24-87
SIGNATURE	DATE	SRP: SIGNATURE*	DATE
APPROVED BY:			
ECSP MANAGER	DATE	MANAGER OF NUCLEAR POWE CONCURRENCE (FINAL REPORT OF	

<sup>\*</sup> SRP Secretary's signature denotes SRP concurrences are in files.

REPORT NUMBER: 235.1(B)

REVISION NUMBER: 1

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#### 1. CHARACTERIZATION OF ISSUES:

Concerns:

WBM-5-002-003
"There are no means of disconnect provided immediately above 480 V receptacles to prevent flash burns caused by insertion, or removing."

EX-85-154-007
"Personnel safety is seriously endangered by lack of disconnect switches at 480 volt welding outlets. Many personnel who connect and disconnect welding conductors to these outlets might not know if circuits are energized. Removing or inserting the plug while energized could cause an explosion and could embed small metallic particles in the arms, face and torso of the person."

#### Issue:

a. No means of disconnect provided at 480 V receptacles. Connect or disconnect of plugs from 480 V receptacles could cause flash burns and other injuries.

#### 2. HAVE ISSUES BEEN IDENTIFIED IN ANOTHER SYSTEMATIC ANALYSIS? YES NO X

Identified by Not Applicable

Date

Not Applicable

Documentation Identifiers:

Not Applicable

## 3. DOCUMENT NOS., TAG NOS., LOCATIONS OR OTHER SPECIFIC DESCRIPTIVE IDENTIFICATIONS STATED IN ELEMENT:

No further information available. Employee concerns address problems with the 480 V receptacles not having a disconnect switch located near receptacle to prevent flash burns should the plug be inserted or removed under load.

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#### 4. INTERVIEW FILES REVIEWED:

The interview files for EX-85-154-007 and WBM-5-002-003 were reviewed by the evaluation team. The files contained no additional unreviewed information.

#### 5. DOCUMENTS REVIEWED RELATED TO THE ELEMENT:

See Appendix A.

6. WHAT REGULATIONS, LICENSING COMMITMENTS, DESIGN REQUIREMENTS OR OTHER APPLY OR CONTROL IN THIS AREA?

See Appendix A.

7. LIST REQUESTS FOR INFORMATION, MEETINGS, TELEPHONE CALLS, AND OTHER DISCUSSIONS RELATED TO ELEMENT.

See Appendix A.

#### 8. EVALUATION PROCESS:

- a. Reviewed available transcripts of NRC investigative interviews for additional information on the concerns.
- b. Performed field walkdown to check and verify types of receptacles and plugs used at SQN.
- c. Reviewed adequacy of specifications and requirements regarding application of 480 power receptacles.
- d. Assessed overall adequacy of 480 V receptacles used at SQN.

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#### 9. DISCUSSION, FINDINGS, AND CONCLUSIONS:

#### Chronology:

11/25/85:

Concern EX-85-154-007 received by TVA for WBN.

01/16/86:

Concern WBM-5-002-003 received by TVA for WBN.

#### Discussion:

The applicable Sequoyah drawing (App. A, 5.b) and Master Bill of Materials (App. A, 5.a) specify Crouse-Hinds (C-F) type AEQ1648, 600 V, 3 wire, 4 pole, 60 A rated receptacles. similarly, Electrical Design Standard DS-E12.5.2 (App. A, 5.g) specifies these receptacles to be "similar to Crouse-Hinds type AEQ, or equivalent." These receptacles are Underwriters Laboratory tested and approved for connect and disconnect under full load (circuit breaking) when used with mating C-H plug part number APJ6485.

The SQN Master Bill of Materials and the Electrical Design Standard, however, do not reference the type of plug to be used with the specified C-H receptacle. During the field walkdowns (App. A, 7.f and g, 08/23/86 and 10/09/86), the evaluator noted that Appleton ACP6034BC plugs were used in the C-H receptacles. A review of the Appleton catalog found a listing that cross referenced Appleton part number ACP6034BC as interchangeable with C-H part number APJ6485.

A review of C-H catalogs and a telephone conversation with C-H personnel (App. A, 7.b, 04/29/86) indicated that C-H opposes the practice of interchanging other manufacturer's plugs or receptacles, even though their charts cross-reference catalog numbers to C-H parts. C-H opposes this for the following reasons:

1) C-H has proprietary information not available to other manufacturers, 2) there is no national standard for mandating minimum performance requirements, and 3) "UL" does not test these parts as interchangeable, only as mated halves and lists them as such.

Appleton states (App. A, 7.c, 05/05/86) that its plug is totally compatible with the Crouse-Hinds receptacle. Appleton's list of plugs interchangeable with C-H plugs has been industrially used and accepted for more than 15 years without any noted problems.

Since C-H and Appleton disagree about the acceptability of the 480 V receptacle and plug interchangeability, the Occupational Safety and Health Administration (OSHA) and Tennessee OSHA

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(Tenn-OSHA) were contacted (App. A, 5.d and e; 05/09/86). Both OSHA and Tenn-OSHA would require a review of the plug or receptacle configuration on their own merits should the question be raised. If it is necessary to review the acceptability of this assembly, full load insertion and withdrawal testing of the plug would be performed to ensure that no personnel safety hazard exists. However, both OSHA agencies indicated that no records exist of any concerns regarding this interchangeability.

Underwriter's Laboratory (UL) was also contacted on this subject. UL would not discuss the acceptability of the interchangeability of the plugs unless the request was submitted in writing. However, UL did acknowledge that they were aware of this common practice of using interchangeable 480 V plugs with the C-H receptacles.

The assessment of the evaluation team after review of the assembly and based on the fact that similar assemblies have been used by the industry for over 15 years, is that the assembly is acceptable and will not result in personnel hazard. However, since the field walkdown covered only a limited number of assemblies, in view of the lack of specifications for the plugs, no certainty exists that acceptable assemblies have been installed throughout the plant.

#### Findings:

Electrical Design Standard DS-E12.5.2 and the Master Bill of Materials do not specify the type of mating plug to be used with the specified receptacles. A field walkdown by the evaluation team identified the use of C-H receptacles with Appleton plugs. Discussions with UL, Tenn-OSHA, and OSHA indicate that this type of product interchangeability is a general practice and no safety concerns or problems have been identified. Based on the construction of the assembly, the fact that the plug manufacturer (Appleton) lists it as an interchangeable part with the C-H plug, and considering that the interchangeability has been widely accepted by the industry for more than 15 years, the present installation of 480 V receptacles and mating plugs is acceptable and will not present any hazard to personnel safety. However, without specified mating plugs required by the Electrical Design Standard and the Master Bill of Material, there is no assurance that only acceptable "circuit breaking" plugs have been purchased and used.

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#### Conclusion:

The employee concern is not valid. The present C-H receptacles installed at SQN, if used with the correct mating plug, do not require the use of any disconnect switch because of their "circuit-breaking" feature which is designed to be disconnected and connected under full load without causing a personnel safety hazard. However, since Engineering Design Standards and the Master Bill of Materials do not specify the type of mating plug to be used with the specified receptacles, there is no assurance that in all cases the proper mating plugs have been or will be used or specified to ensure "circuit breaking" assembly.

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#### APPENDIX A

#### 5. DOCUMENTS REVIEWED RELATED TO THE ELEMENT:

- a. SQN Master Bill of Materials, (no date)
- b. TVA drawing E45N842-1, R41, "Conduit and Grounding," (04/30/86)
- c. 1984 National Electrical Code
- d. 1983 Crouse-Hinds Electrical Construction Materials Catalog 4700 and 1984 Product Data Sheet
- e. 1980 Appleton Electric Co. catalog, and 1984 Condensed Catalog
- f. 1982 Crouse-Hinds Guide to Selection, Installation, Use and Maintenance of Plugs, Receptacles and Cord Connectors
- g. TVA Electrical Design Standard DS-E12.5.2, "Cable, 480 V Power Receptacles," R1 (11/23/82)
- h. TVA Office of Nuclear Power Employee Safety Handbook.

# 6. WHAT REGULATIONS, LICENSING COMMITMENTS, DESIGN REQUIREMENTS OR OTHER APPLY OR CONTROL IN THIS AREA?

None

# 7. LIST REQUESTS FOR INFORMATION, MEETINGS, TELEPHONE CALLS, AND OTHER DISCUSSIONS RELATED TO ELEMENT.

- a. Telecon from Wheeler, Bechtel, to Brickey, TVA, (04/29/86), IOM # 066
- Telecon from Wheeler, Bechtel, to Ewing, Crouse-Hinds, (04/29/86), IOM # 068
- c. Telecon from Wheeler, Bechtel, to Kennedy, Appleton, (05/05/86), IOM # 079
- d. Telecon from Wheeler, Bechtel, to Walker, OSHA, (05/09/86), IOM # 096
- e. Telecon from Wheeler, Bechtel, to Bradley, TENN-OSHA, (05/09/86), IOM # 095
- f. Field walkdown at Sequoyah site conducted by Jack Wheeler, Bechtel, and N. Black, TVA, (08/23/86), BLT-080
- g. Field walkdown at Sequoyah site conducted by Jack Wheeler, Bechtel, and G. Bill, TVA, (10/09/86)

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#### CATD LIST

The following CATD forms are included as part of this report:

235.01(B) SQN 01 235.01(B) SQN 02 (Revised 02/19/87)

( .rc c.3 Attachment A Page 1 of 1 Revision 2 - A

# Action Tracking Document (CATD)

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ECTG C.3 Attachment A Page 1 of 1 Revision 2 - A

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## Bechtel Western Power Corporation

Engineers - Constructors

Fifty Beale Street San Francisco, California Mail Address PO Box 3985 San Francisco, CA 94119



July 28, 1987

BLT-359

Mr. George R. McNutt Engineering CEG-H Tennessee Valley Authority Knoxville, Tennessee 37902

Subject: Watts Bar Nuclear Plant

Employee Concerns Evaluation Program

Job No. 76985-026 SEQUOYAH NUCLEAR PLANT CORRECTIVE ACTION PLAN 235 07 SQN D1 and -02

Dear Mr. McNutt:

The subject CAP, as transmitted by TCAB-096 dated 06/25/87, responds to Corrective Action Tracking Document 235 01 SQN 01 and -02.

The implementation of the corrective action indicated in the supplement TVA memo, J. B. Hosmer to R. C. Denny [B25 870717 009], to the CAP for CATD 235 01 SQN 01 and -02 is acceptable to the evaluation team and will be incorporated into the subcategory report.

Very truly yours,

G. L. Parkinson Project Manager

### T 25 870804 864

### Memorandum

TENNESSEE VALLEY AUTHORITY

: H. L. Abercrombie, Site Director, Sequoyah Nuclear Plant ONP

: W. R. Brown, Jr., Program Manager, Employee Concerns Task Group, FROM

Watts Bar Nuclear Plant ONP

DATE AUG 0 4 1987

SUBJECT: SEQUOYAH NUCLEAR PLANT (SQN) - EMPLOYEE CONCERNS TASK GROUP (ECTG)

ELEMENT REPORTS - ENGINEERING CATEGORY - CONCURRENCE WITH CORRECTIVE

ACTION PLAN (CAP)

The category evaluation group leader, Engineering, concurs with the CAPs for the following CATDs.

> 23501-SQN-01 23501-SQN-02

This concurrence is based upon the CAP and the supplemental information in the Hosmer to Denney memorandum (B25 870717 009.)

Please inform me when your corective action is complete and you are ready for me to close out the CATDs.

GRM: GB

Attachments

cc (Attachments):

RIMS, MR 4N 72A-C

R. C. Denney, DSC-P, Sequoyah Jack Howard, ECTG Bldg, ONP, Watts Bar

Guy Huff, ECTG Bldg., ONP, Watts Bar

J. L. McAnally, ONP, Watts Bar

G. R. McNutt, ECTG Bldg, ONP, Watts Bar

UNITED STATES GOVERNMENT
Memorandum

QA Record

B25 '870717 009

R. C. Denney, Employee Concerns Special Project Manager, DSC-P, Sequoyah

. J. B. Hosmer, Project Engineer, Sequoyah Engineering Project, DSC-E,

Sequoyah Muclear Plant

DATE : JUL 17 1987

FROM

SUBJECT: SEQUOYAH NUCLEAR PLANT (SQN) - EMPLOYEE CONCERN TASK GROUP (ECTG) ELEMENT REPORT NO. 235.01 SQN R1 - REVIEW AND CORRECTIVE ACTION PLAN (CAP) - SUPPLEMENTAL REVIEW

Reference: My memorandum dated June 12, 1987 (B25 870612 010)

This is in supplement to the response provided in the referenced memorandum for the subject ECTG element evaluation report.

Further review of Sequoyah Nuclear Plant electrical bill of material indicated mark number "SRT" as a mating plug for use with 480-V plug receptacle with mark numbers "SRA" and "SRB". However, the words "or equal" have been inadvertently omitted for mark number "SRT" which will allow the project to procure equivalent plugs for use with the 480-V plug receptacles.

We have revised the master bill of material for mark number "SRT" to include the equivalent material.

Considering the above, no further corrective action is required on this ECGT element.

J. B. Hosmer

RCW:AJ:BE

RCW<sub>R</sub> cc (Attachment): RIMS, SL 26 C-K

H. L. Abercrombie, D&PS-4, Sequoyah

6. P. Cooper, 5-215 SB-K

G. T. Hall, DSC-P. Sequoyah

T. C. Price, 5-233 SB-K

R. D. Rudder, DSC-E, Sequoyah

P. C. Williams, DSC-P. Sequeyan A. Kaju, DSC-P. Sequeyan

#### (Electrical Material Group)

(Key Letters)

### MASTER BILL OF MATERIAL FOR ELECTRICAL EQUIPMENT

Knoxville, Tennessee

MARK	DESCRIPTION	MFR	bugata and a second second second constitution
SIM	PLUC RECEPTACLE HOUSING, 250V DC, 200 amp, 2 W, 2P, style 1, with cap	C-H	AR 2021
srn	CONDULET, 2", for use with mark srm	С-Я	AJ 68
870	PLUG RECEPTACLE ASSEMBLY, consisting of one 30-amp, 120V, 2W. 3P male receptacle, one 60-amp, 480V, 3W, 4P female receptacle, complete with undrilled weather-resistant enclosure for flush mounting in top of concrete deck	C-H	AAP9548
erp	PLDG, 100 amp, 600V AC, 3W, 4P, with cable grip and neoprene bushing		
irq	PLUG, 30 amp, 600V AC, 3W, 4P, style 2, with mechanical grip and rubber bushing	C-H	APJ 3483
srq-1	Same as arq, except feraloy material	СН	APJ 3485 WOD .
err	PLUG RECEPTACLE, 2W, 2P, 250V DC, 60 amp, complete with plate and cap, less box	C~H	AEQU1627
srs	FLUG, 2W, P, for 0.5" dis cable, for use with mark srr	С-Н	APJ 6273
ert	PLUG, 3W, 4P, for use with marks are and erb	C-H	APJ 648
eru	PLUG, 2W, 3P, 600V, 100 emp, with mechanical grip and neoprene bushing	C-H	APJ 1038
SIV	PLUG, 3W, grounding, 15 mmp, 125V AC, cap, armored, with anchor lock	Eubbell	5280, or equal
* LA			
srw-l	PLUG MOLD, with 12 provided outlets spaced on inch centers, 1-9/32" wide, 6' long, 3W, 1-ckt arrangement, with insulated, isolated ground, No. 12 conductors, 120V AC, 15 amp, series 20000IG	Wiremold Co.	2018606
srw-2	PLUG MOLD, with 3 prewired outlets spaced on 6" centers, 1-9/32" wide, Special Order: 18" long. 3V. 1-okt arrangement, with insulated, isolated ground, No. 12 conductors, 120V AC, 15 amp, series 2000IG	Wiremold Co.	201G606

TVA 64 (05-9-65) (00-WM-9-85)

UNITED STATES GOVERNMENT emorandum

## TENNESSEE VALLEY AUTHORITY

		W. R. Brown, Jr., Program Manager, Employee Concerns Task Group
ТО	:	Watts Bar Nuclear Plant ONP Watts Bar Nuclear Plant ONP James L. McAnally, Corrective Action Program Manager, Watts Bar
FROM	:	James L. McAnally, Collective
DATE	:	6-24-87  WATTS BAR NUCLEAR PLANT (WBN) - TRANSMITTAL OF ECSP CORRECTIVE (CATD)
SUBJE	CT:	WATTS BAR NUCLEAR PLANT (WBN / CATD) ACTION TRACKING DOCUMENT(S) (CATD)

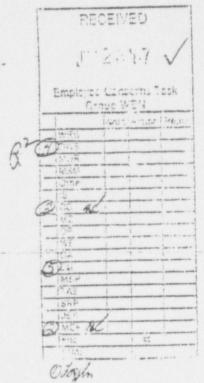
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The above listed, completed CATD(s) are being returned according to your instructions.

James L. McAnally

JLMC:NLC Attachments rt (Attachments): RIMS. MR 42 72A-C

WBEP-2286d 2/6/87



## *Aemorandum*

#### TENNESSEE VALLEY AUTHORITY

J. L. McAnally, Corrective Action Program Manager, A108 IOB. ONP.

Watts Bar Nuclear Plant

FROM

H. L. Abercrombie, Site Director, O&PS-4, Sequoyah Nuclear Plant

DATE

June 20, 1987

SUBJECT: SEQUOYAH NUCLEAR PLANT (SQN) - EMPLOYEE CONCERNS TASK GROUP (ECTG) ELEMENT REPORT 235.01 SQN - ENGINEERING CATEGORY - CORRECTIVE ACTION PLAN (CAP)

Reference: Your memorandum to R. C. Denney dated May 19, 1987, "Watts Bar Nuclear Plant (WBN) - Transmittal of Employee Concerns Special Program (ECSP) Fact Sheets and Corrective Action Tracking

Documents (CATDs) - WBN"

I acknowledge receipt of your element report and in accordance with your request (see reference) Element Report 235.01 SQN has been reviewed for applicable corrective action.

By way of this memorandum, I am endorsing the site line organization CAP, returning your CATD Nos. 235.01-SQN-01 and 235.01(B)-SQN-02, and attaching the CAP for your review/concurrence. This CAP is not a restart requirement.

If ECTG agrees with the proposed CAP, please have them sign the ECTG concurrence space below item 9 on the CAP checklist and return the CAP tracking checklist.

RCM: RCD: JB: CNA Attachments cc (Attachments):

RIMS\_ MR 4N 72A-C (B25 870612 010) (w/reference)

T. C. Price, 5-212 SB-K (w/reference)

0360D



( FG C.3 Attachment A Page 1 of 1 Revision 2 - A

# Action Tracking Document (CATD)

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ECTG C.3
Attachment A
Page 1 of 1
Revision 2 - A

# Action Tracking Document (CAID)

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7.	PREPARED BY: NAME JACK B. WHEELER ASLO 1200 DATIACHMENTS
8.	CONCURRENCE: CEG-H Grow RM Mut DATE: Z-24-87
9.	APPROVAL: ECTG PROGRAM MGR. DWStund. To DATE: 2-75-87
RRECTIVE	ACTION
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	* see Supplemental Into in Mimo
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) 13.	Approved corrective actions have been verified as satisfactorily implemented.
	SIGNATURE TITLE DATE

Page 8 SQA166 Revision 9

Attachment A Page 1 of 2

_		Correction	e Action Plan of Emp	loyee Concern Inv	estigation	
		Correcti	Tracking Ch	necklist	1 #	
				, to the my	20-014	
			235-01 SPNR	1/235-01 (6	1-591-02	name and the
-	ECTG	Report/CATD Number	onsible for Corrective	o Action Plan	DNE	
	- 4	A THE PARTY OF THE PROPERTY OF	DUETUTE TOT COFFERENCE	E WOLTON T TOWN	The second secon	
	Init	iation Date	6-11-81	ace and consistent and district the state of		
r .	CORR	ECTIVE ACTION PLAN	(CAP)		Yes No V	-
				ion?	Yes No	ioni
	**	(If wes, describe	corrective action to	be taken, if no,	provide justilitate	
	(30) s.*					
10	and the party of					
li .		PEQUIFEM	ENTR OF UL	- 498. 514	AND NATION	AL
						-
	and the same	the state of the s	10 1 For 11 . Part 11/6	FULL KATI	NG CIRCUIT	******
		2 BELLETI	G CAPABILI	TY AND	WILL NOT	-
	1, 763, 744	BREAKIN	ATING PLUG	WITH A	DIFFERENT	-
_		PCCEPIN	ar item/instances and	corrective acti	on taken ComTL	ON.
1	2.	Identify any simil	ar item/instances and		_	
1		-	N/A	AND THE RESIDENCE OF THE PARTY		
				CONTRACTOR OF THE PARTY OF THE		
Fine				AND		
-	40.19.27.		tion preclude recurr	and of findings	Yes W/A . No	NIA
Bren .	3.	Will corrective ac	tion preclude recurr	ence of findings.	dverse to quality	(CAQ)
	Δ	Does this report	contain findings that	are conditions	VES No	1
1						
L	5.	IF a CAQ condition	exists, what cay do	cument was inition	ateu.	
						and the second section of
W.	6.	Which site section	n/organization is res	ponsible for cor	rective action.	
1	1		rin			0119
R.	7	Is corrective act.	ion required for rest	art?	Yes MIA No	10/1
	A SECTION OF THE PROPERTY OF THE PARTY OF TH	1 men 1 m man a mon i ma to a	on ie to be made usin	IC ALLEGUALIERAND W	f SQAIDD.)	
1		to some mimber to	restart corrective	STOPPORTS STOPPORTS	10//	MANAGEMENT OF THE
L		Petimate completi	on date for correction	n action.	N/F	NAME OF TAXABLE PARTY.
	. 7.	Document of the second	)		£ .5 05	
-		Completed By	ecwilling	Date _	6-12-87	-
1		Approved By MA	Prusile.	Date	6-12-89	****
No.		ECTG Concurrence	man a man and the same and the	Date		-
		Ecro concurrence	Character and control of the control	4		
1						
L						
1		*				

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#### ATTACHMENT A Page 2 of 2

10.	CLOSURE Was your corrective action initiated and completed in accordance with step 1?  Yes Wiff No N
11.	If step 10 is no, describe the corrective action taken.
12.	Is the corrective action implementation complete?  Yes WIA No WIA
13.	Is the corrective action documentation closed?  Yes WIA NO NA What documents were used to implement the corrective action?
	Completed By:
	Verified By: Date Date
· (St	p No.) Description
, , ,	
CC	ONTID FROM SH.D VOLTAGE OR CURRENT RATING
-	PLUGS IS INSTANTLY SNUFFED IN THE DEEP CONFINED INSULATED ARCING CHAMJER
***********	WHILE THE PLUG CONTACT IN STILL A CONSIDERABLE DISTANCE INSIDE. THE ARC
	man and the state of the state
- Section Contracts	CIRCUIT OR POWER INPUT CORD AND
	- REVOIREMENTS FOR AMERICALLY CELLED
-	and the second s
	SPECIFICATION SPANDARD PRACTICE SOA-149 A
синдакто	MAINTENANCE THE TOOLS ARE
***************************************	REQUIRED TO BE TESTED ANNUALLY AND
	REQUIRED TO BE TESTED ANNUALLY AND ACTION TAKEN TO REPAIR / REPLACE DEFE
	EQUIPMENT. CINCLUDING CORDS & PLUGS)
	CONSIDERING THE ABOVE, NO CORRECTIV
	ACTION IS REQUIRED FOR THIS ECT IS
	ELEMENT REPORT.