SERVICE	Procedure for Certification of Inspectors of Handling Equipment and Rigging	NO. MA	-20
TRICEON PAR		REV. O	DATE 8-26-80
MINTENANCE DIVISION	APPR. 1-28-81 Remove	PAGE 1	DF 8
107080478 8106 DR ADSCK 05000	18		ND F-1 REY.D

AND RIGGING

INSPECTORS OF HAND LING EQUIPMENT

PROCEDURE FOR CERTIFICATION OF

1 ...

1.1

t's'

1.1

12

San.

a a

 $\sigma_{a} \mathcal{R}$

r.A.

A. A.

 $_{r}$ d

4

.

1.0	PURPOSE	
1.1	The purpose of this procedure is to:	
	(1) Ensure that Maintenance Division Inspectant and Rigging (herein after referred to a qualified to perform their assigned work	as "Rigging Inspectors") are
	(2) Define the scope of a Rigging Inspector authority.	r's responsibilities and
	(3) Provide a means of certifying the qualitors.	ification of Rigging Inspec-
2.0	SCOPE	
2.1	This procedure applies to all inspections of rigging performed by the Maintenance Divisio MA-7	handling equipment and on at PBAPS as required by
3.0	REFERENCES	
3.1	MA-1 - Procedure for Preparation of Maintena	ance Division Procedures.
3.2	MA-18 - Procedure for Indoctrination and Tra Personnel in QA/QC Requirements	aining of Maintenance Division
3.3	MA-7 - Procedure for Handling Q-listed Items	s.
3.4	ANSI - N45.2,6, 1973 - Qualifications of Ins Testing Personnel for Construction Ph	spection, Examination and mase of Nuclear Power Plants.
3.5	PBAPS Quality Assurance Plan, Volume III.	영화 가장 같이 가지? 영향
3.6	NCR Regulatory Guide No. 1.58 - August, 1973	•
4.0	RESPONSIBILITIES	김 사람이 가 관람을 했다.
4.1	The Superintendent of the Maintenance Divisi	on is responsible for:
4.1.1	Approving the "Certificate of Qualification" Inspectors of Handling Equipment and Rigging	of Maintenance Division Form I-25 (Ethibit MA-20.1)
4.2	The Engineer-in-Charge of the Engineering Se	ction is responsible for:
4.2.1	Approving the "Record of Inspection Assignment MA-20.3).	nts" Form T-24 (Exhibit
4.2.2	Approving the "Evaluation of Job Performance"	" Form MDF-5 (Exhibit 20.2).
4.3	The Rigging Supervisor is responsible for:	
SERVICE M	Procedure for Certification of Inspectors of Handling Equipment and Rigging	NU. MA-20
MAINTENANCE		REV. 0 DATE 8-26-80
DIVISION	APPR. APPR.	PAGE 2 OF 8

ND F-1 REV.0 3/79 1

Ass A.3.2 Mail MA-3 M	ntain 20.1, angin ipmen parin parin kept iewin cr. parin form inging	to work ing a fi MA-20.2 g for th t or rig g a peri that a current of the 1 g and app g a proce man, trai g for any stion of	le for , MA-20 me repai ging, a odic Pe "Record - Form <u>Mainten</u> proving edure fo <u>ining a</u> y indoc	ch Botto all form .3). r or dis nd updat rformanc of Insp T-24 (E ance Div Inspect or any r nd testi trinatio	ns T-25, ar posal, as ing his ra e Evaluati ection Ass whibit MA- ision Engi ion Progra igging or ng section n. trainin	nd MDF-5; required ecords ac ion for el signments -20.3). incering 1 ms propos handling h, is resp	and T- , of an cording ach Rig " Forms <u>Section</u> sed by equipm	-24 (Exh ny damag gly. gging In s for eac <u>n is res</u> the Rig ment as	ibits ed ha spect h ins <u>ponsi</u> ging requi	andling tor. spector <u>ible</u> Super-
MA- .3.3 Array equal .3.4 Prep .3.5 Assistance .4 A main for .4.1 Rev: visa .4.2 Prep .5 The .5.1 Array cert .5.2 Prep .5.3 Notification required to require to require to require to required to require to	20.1, angin, ipmen parin, uring kept ember : iewin, or. parin, foren angin, tifica	MA-20.2 g for th t or rig g a peri that a current of the l g and app g a proce an, trai g for an ation of	, MA-20 e repai ging, a odic Pe "Record - Form <u>Mainten</u> proving edure fo <u>ining an</u> y indoc	.3). r or dis nd updat rformanc of Insp T-24 (E ance Div Inspect or any r nd testi trinatio	posal, as ing his ra e Evaluati ection Ass whibit MA- ision Engi ion Progra igging or ng section n. trainin	required cords ac ion for e signments -20.3). incering 1 ms propose handling h. is resp	, of an cording ach Rig " Forms <u>Section</u> sed by equipm	ny damag gly. gging In s for eac <u>n is res</u> the Rig ment as	ed ha spect h ins ponsi ging requi	andling tor. spector <u>ible</u> Super-
equ .3.h Prej .3.5 Assi are .4 <u>A mi</u> for .4.1 Rev: vise .4.2 Prej .5 <u>The</u> .5.1 Arrest .5.2 Prej .5.2 Prej .5.3 Noti requ	paring paring wring kept <u>ember</u> iewing or. paring foren enging	t or rig g a peri- that a current of the 1 g and app g a proce man, trai- g for any stion of	ging, a odic Pe "Record - Form <u>Mainten</u> proving edure fo <u>ining a</u> y indoc	nd updat rformanc of Insp T-24 (E ance Div Inspect or any r nd testi trinatio	ing his re e Evaluati ection Ass xhibit MA- <u>ision Engi</u> ion Progra igging or <u>ng section</u> n. trainin	required cords ac ion for es signments -20.3). incering i ms propose handling i, is resp	, of an cording ach Rig " Forms <u>Section</u> sed by equipm	ny damag gly. gging In s for eac <u>n is res</u> the Rig ment as	ed has spect h ins ponsi	tor. spector <u>ible</u> Super-
.3.5Assurance are.4 <u>A margon for</u> .4.1Revisor visor.4.2Prep.5 <u>The</u> .5.1Array ceris.5.2Prep.5.3Notice requise.6 <u>The</u> .6.1Array tors	uring kept ember : iewing or. paring foren anging tifica	that a current of the 1 g and app g a proce man, train of for any stion of	"Record - Form <u>Mainten</u> proving edure fo <u>ining a</u> y indoc	of Insp T-24 (E ance Div Inspect or any r nd testi trinatio	ection Ass xhibit MA- ision Engi ion Progra igging or ng section n. trainin	ignments -20.3). incering i ms propos handling handling	" Forms Section sed by equipm	s for eac <u>n is res</u> the Rig ment as	h in: ponsi ging requi	spector
.4 <u>A marger</u> .4.1 <u>Revi</u> .4.1 Revi .4.2 Prep .5 <u>The</u> .5.1 <u>Array</u> .5.2 Prep .5.3 Noti requ .6 <u>The</u> .6.1 <u>Array</u>	kept ember iewing or. paring forer enging	of the l of the l g and app g a proce man, train g for any ation of	- Form <u>Mainten</u> proving edure fo <u>ining a</u> y indoc	Inspect or any r nd testi	xhibit MA- ision Engi ion Progra igging or ng section n. trainin	-20.3). incering i ms proposi- handling n, is resp	Sectior sed by equipm	the Rig	ponsi ging requi	ible Super-
.4.1 Revise .4.2 Prep .5 <u>The</u> .5.1 Arres .5.2 Prep .5.3 Noti requ .6 <u>The</u> .6.1 Arres	iewing or. foren enging tifice	g and app g a proce man, trai g for any stion of	proving edure fo <u>ining a</u> y indoc	Inspect or any r <u>nd testi</u> trinatio	ion Progra igging or ng section n. trainin	handling	Section sed by equipm	the Rig	ging requi	Super
.4.2 Prep .5 <u>The</u> .5.1 Arres .5.2 Prep .5.3 Notification .6 <u>The</u> .6.1 Arres	paring form anging tifica	g a proce <u>ean, tra:</u> g for any stion of	edure fo ining an y indoc:	or any r <u>nd testi</u> trinatio	igging or ng section n. trainin	handling	equips	the Rig ment as	requi	
.4.2 Prep .5 <u>The</u> .5.1 Arres .5.2 Prep .5.3 Notification .6 <u>The</u> .6.1 Arres	paring form anging tifica	g a proce <u>ean, tra:</u> g for any stion of	edure fo ining an y indoc:	or any r <u>nd testi</u> trinatio	igging or ng section n. trainin	handling 1, is resp	equipm	nent as	requi	
.5 <u>The</u> .5.1 Arm .5.2 Prep .5.3 Noti requ .6 <u>The</u> .6.1 Arms tors	foren enging tifica	an, tra g for any tion of	ining an y indoc	<u>nd testi</u> trinatio	ng section n. trainin	1, is resp	1	118.1		ired.
.5.1 Arm ceri .5.2 Pres .5.3 Noti requ .6 <u>The</u> .6.1 Arms tors	anging tifica	g for any ation of	y indoc	trinatio	n. trainin	*	ponsibl	for forme		
.5.2 Pres .5.3 Not: requ .6 <u>The</u> .6.1 Arrs	- TT TC:	CION OI	y indoc Rigging	trinatio g Inspec	n, trainin			le ior:		
.5.3 Not: requ .6 <u>The</u> .6.1 Arra	paring				tors.	g, and te	esting	require	d for	1.S.) C
.6 <u>The</u> .6.1 Arrs tors		; a Cert:	ificate	of Qual	ification	Form (T-	25).	3m)		
.6.1 Arrs	Lfying Lired,	to keep	gging Su p each 1	uperviso rigging	r to prepa inspector'	re or upd s qualifi	late th Loation	e docum forms d	ents curre	as as
COLS	Maint	enance I	Division	n Cafety	Foreman i	s respons	sible f	or:		· ° • .
	nging visi	; for PEC on exami	CO Medio inations	cal Depa: s result:	rtment to s and to p	erform an	mual v	ision es	ing I xamin	nspec- ations
	Riggi	ng Inspe	ector is	s respon	sible for:	.79 ¹⁷	0 0			
.7.1 Chec Main	king tenan	and insp ce Divis	pecting sion in	the hand	lling equip lling oper	pment and ations de	l riggi fined	ng used in Proce	by t edure	he . MA-7.
					ctions" Fo		A 6			
.7.3 Prep	aring	"Recor			spection A) as/
regu	ired. EQUIS					و کار شک				
.1 None										
SFRVICE SFRVICE	Prof	ocedure Handlin	for Cer ng Equip	rtificationent and	ion of Insp 1 Rigging	-	ND. <u>MA</u> . REV. O	DATE S	3-26-1	80
MAINTENANCE DIVISION				APPR.				OF 8	-20-0	00

C

6

6

ND F-1 REV.O

							27 10.23	and the state
6.0	PROCEDUE	<u></u> :						٦
6.1	Selectio	m of Inspector	<u>8</u>	n r		A SPAN	. f. (.)	1
(1.1	141465 34448	anopeccuis/	ed as "Inspecto shall be Mainter g of Rigger, Fi	nance Division	g Equipmen 1 riggers	nt and who h	Rigging. ave attain	ed (
6.2	Duties &	Assignment of	Inspectors		*, ≵ t. 'α.√	ale di. N ^a ri	€. [•]	
5.2.1	Riggers the Rigg	from M intenan ing Supervisor	ce Division sha •	ll be assigned	l as Rigg.	ing In	spectors b	y
6.2.2	tractors shall in	in the handlin	ll check and ind is used by the ag operations co fy conformance for criteria.	Maintenance D	ivision (or its	sub-con-	
6.2.3	of any h	andling equipm	shall document h ural forms. The ent or rigging w plicable inspect	e Rigging Insp which he finde	ector sha			
6.2.4	If the R equipmen Exhibit Rigging	Sging Inspect t or rigging, 1 20.5 that it is and Handling E	or removes from he shall indicat s not available guipment, Field roposed resolut	service a par te in the Rigg for service, Inspection Re	ticular p ing Equip and shall	pment 1 1 comp	List lete the	
(2.4.1	The Rigg		will have a men		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	100.0	a second s	
6.2.5	visor sh inspected item may the file	all have the it d by a Rigging be released for	aired, the Riggi ted. When repair tem recertified Inspector. If the or use in quality ion papers and t	by qualified to re-inspecti	te, the H testing p on is sat	liggin; ersonr isfact	s Super- all and re- cory, the	-
6.2.6	papers a	nd the Rigging	satisfactorily r Iscarded or dest Equipment List 10 longer availa	royed. The f.	ile of ce	ertific	sor shall	
6.3		ation of Riggin					1!	1
6.3.1	the set of the set		gging Inspector ed work. The o as training, e	CONTITS ACTION .	-1-77 1-		g qualifie	
Can stray	ICE MIL	Procedure for	r Certification Equipment and Ri	of Inspectors	NO	-20		
S A S	500				REV. O	DATE	8-26-80	
HAINTEL		APPR.	APPR.		PAGE 1 OF			- 1

A

4

ND F-1 REV.D

3/79

A

-

P

.

assure the initial and continued proficiency of each Rigging Inspector. The effective period of certification shall not exceed two years. At the end of the effective period of certification each Rigging Inspector shall be recertified in accordance with this procedure.

- 6.3.2 The qualifications of personnel for initial certification and recertification shall be documented by the foreman, Testing & Training, on the "Certificate of Qualification of : intenance Division Inspectors of Handling Equipment and Rigging" (Form T-24, Exhibit MA-20.1). The various sections of the form shall be completed as follows:
- 6.3.2.1 Handling Equipment and Rigging Inspections
- 6.3.2.2 Level of Capability shall be either Level 1, 2, or 3, as listed in Table 1, ANSI N45.2-1973. The education and experience requirements specified in Paragraph 3.1 ANSI N45.2. -1973 for the various levels of capability should not be treated as absolute, when other factors provide reasonable assurance that a person can competently perform a given task.
- 5.3.2.3 Effective Period of Certifications shall begin on the date the certificate is signed by the Superintendent of the Maintenance Division. The effective period of certification shall not exceed two years.
- 5.3.2.4 Basis Used for Certification Shall Include:
- 6.3.2.4.1 Education, College: List the initials of the degree, the name of the institution granting the degree, and the year of graduation. Also, list the same of each undergraduate and graduate school attended with the starting and completion dates.
- 5.3.2.4.2 Other Education/Training: List any that is related to nuclear and/or inspection work, with name and location of school, length of training, and the year that the training occurred.
- 6.3.2.4.3Employment Record: List in chronological order each Philadelphia Electric Company position held, noting job title and dates of position.
- 5.3.2.4.4Rigging and/or Inspection Experience: Briefly describe any significant areas of previous experience.
- 6.3 2.4.5<u>Vision Requirements Verified</u>: PECO Medical Department shall verify that the Rigging Inspector meets the vision requirements of Paragraphs 3.2.1 (1) and (2) ANSI N45.2.6 - 1973.
- 6.3.2.4.6<u>Approval</u>: The Superintendent, Maintenance Division shall approve and sign the Certificate of Qualification form.
- 5.3.5 The executed copies of the Certificate of Qualification forms shall be kept in the Maintenance Division personnel files.

6.3.6 Subsequent yearly vision examinations shall be performed and recorded on the "Maintenance Division Rigging Inspection Personnel Vision Examination Schedule." Evidence of yearly examination shall be attached to the individual's Certificate of Qualification form and shall be retained in the Maintenance Division personnel files. The Maintenance Division Safety foreman shall maintain a vision

SERVICE	Procedure of Handlin	for Certification of Inspect g Equipment and Rigging	ND. MA-20		
Ascrance another			REV. O	DATE 8-26-80	
MAINTENANCE DIVISION	APPR.	APPR.	PAGE 5	DF 8	

MD F-1 REV.O

examination sheedule for all Rigging Inspectors.

The Engineering Section, Engineer-in-Charge or his designated alternate shall maintain a list of "Personnel Certified as Qualified Inspectors of Handling Equipment and Rigging."

Training

6.3.7

- {

6.4

6.4.1

All Rigging Inspectors shall receive periodic indoctrination and training in QA/QC requirements in accordance with MA-18. Training shall include indoctrination in: (1) MA-7 and other related Maintenance Division Procedures, (2) the applicable codes and standards, and (3) the duties and responsibilities of a Rigging Inspector.

- 6.4.2 If the Rigging Inspector's background and experience is such that he lacks the necessary skill and knowledge in the use of any tools, gages, instruments, or any other inspection equipment that he may be required to use, the Foreman, Testing and Training Section, shall arrange for the Rigging Inspector to be given the necessary training in the use of such equipment. When the training is complete, the Foreman, Testing and Training Section, shall document its completion by recording it in the "Other Training" Section of the Rigging Inspectors Certificate of Qualification form.
- 6.4.3 The Foreman, Training and Testing, shall administer and document the indoctrination and training program in accordance with MA-18 and MA-9.

6.5 Inspection Program

- 6.5.1 The Maintenance Rigging Supervisor shall ensure that frequent and periodic inspections of the handling equipment and rigging as required by MA-7 are made. Inspections shall be performed in accordance with the program described therein.
- 6.5.1.1 If there is no inspection program available for a particular piece of handling equipment or rigging, a Maintenance Engineer shall prepare a proposed inspection program which will ensure compliance with the various codes and specification associated with the item. He shall submit the proposed inspection program to another Maintenance Engineer for independent review.
- 6.6 Record of Inspection Assignments
- 6.6.1 Each Rigging Inspector shall document his inspection assignments by completing a "record of Division Inspections" (Form T-24, Exhibit NA-20.3) and submitting it to the Rigging Supervisor. A form shall be submitted at least yearly.
- 6.6.2 The Rigging Supervisor shall review and verify each form submitted by the Rigging Inspectors under his supervision. He shall forward the verified originals to the Engineering Section, Engineer-in-Charge for placement in the Inspector's file.
- 6.7 Evaluation of Performance

SERVICE D	Procedure fo of Handling	r Certification of Inspectors Equipment and Rigging	NO. MA-20			
ALCINE COUPAN			REV.	0	DATE	8-26-80
MAINTENANCE DIVISION	APPR.	APPR.	PAGE	6 0	F 8	

ND F-1 REV.D 2/79

6.7.1	Perfo certi evalu pabil knowl and a	if ication and at peri ation shall include lity, the activities ledge and observance any other pertinent for	all prepare an evaluat in his group using th ation shall be perform odic intervals not to a review of the Riggin he is currently qualif. of the applicable proce- acts. The Rigging Sup- ring Section, Engineer	e "Evalua ed at the exceed tw g Inspect ied to pe edures ar	ation of Job e time of initial wo years. The tor's current ca- erform, his ad specifications		
6.7.2	each eappro	Rigging Inspector and	Engineer-ir-Charge, sha upervisor. He shall re d shall indicate his er "Approval" section of t	eview the	capability of		
6.7.2.1	acceo as a	it is determined that the capabilities of a Rigging Inspector are in cordance with the qualifications specified for the job, his certification a qualified inspector of handling equipment and rigging may be contin- for a period not to exceed two years.					
6.7.2.2	so no Inspe has b Certi	tified and shall be a ctors until such time een re-certified as a ficate of Qualificati	the capabilities of a H alifications specified removed from the list of a as he has been trained being qualified to perf ion form shall be prepa the re-certification of	for the of certified in the form the	job, he shall be ied Rigging needed skills and work. A new		
6.7.3	The conduction	ompleted form T-24 (H s personnel file.	Exhibit MA-20.1) shall	be place	d in the indivi-		
7.0	DOCUM	EDUPATION:					
7.1	the c:	e Maintenace Division Form T424 (Exhibit MA-20.1) shall document te credentials and qualification level of each Rigging Inspector and kep the personnel files at Oregon Shops.					
7.2 d	docume	he "Evaluation of Job Performance" for MDF-5 (Exhibit MA-20.2) shall ocument the Rigging Inspector's performance and kept in the personnel iles at Oregon Shops.					
7.3	in	ng" Form 1-24 (Exhibi ction assignments and s files. Upon comple	Division Inspection o t MA-20.3) shall docum shall be kept in the tion shall be signed b aced in the personnel	ent the l Peach Bot v the End	Rigging Inspector's ttom Rigging Super-		
8.0	EXFIB	ITS:					
8.1	Certif	ficate of Qualificati	on of Maintenance Divi	sion Insp	pectors of Handling		
CAN SERVIC	THIN	Procedure for Certi	fication of Inspectors	1			
AL ET MIC CO	PANT	of Handling Equipme	nt and Rigging	REV. O	DATE 8-25-80		
MAINTENAN DIVISIO		APPR.	APPR.	PAGE 7 C			
			-J	1	ND 5-1 REV.D		

t

6

N'S

3/18

.

7.1.

· . 1'

1.1

°.Y

1.5

1. .

10

The state

10.10.20

1 21 2

0

(hij

	Equipment and Rigging (Form T-25, Exhibit MA-20.1).
8.2	Evaluation of Job Performance - Handling Equipment and Rigging Inspec- tion (Form MDF-5, Rev. 0,), Exhibit MA-20.2
8.3	Record of Inspections (Form T-21,), Exhibit MA-20.3
8.4	Field Inspection Report, Exhibit MA-20.4
	ser.r.r

•

~

1.14 1 •••

i.

1.

a2.

15

ŝ

CHURSE MIN	torsof Han	for Certification of Inspe dling Equipment and Riggin	es NO. 1	MA-20
CINE COMPANY			REV. O	DATE 8-26-80
DIVISION	APFR.	APPR.	PAGE 8 C	

-

.

NO F-1 REY.D 3/19

	OUALIFICATION OF IN HANDLING EQUIPMENT AN		
N({	Payroll No.	Social Security No	
ACTIVITY QUALIFIED TO PERFORM	1		
LEVEL OF CAPABILITY			• • • • •
EFFECTIVE PERIOD OF CERTIFICAT (Certification not to ex-	TION: From	To	
BASIS USED FOR CERTIFICATION:			
Education: High School: graduated for City & State		High School	DATE
College: Degree:			
Other Training:		· · · · · · · · · · · · · · · · · · ·	
6			
. Employment Record:			
POSITION	DATE	FOSITION	DATE
Testing and/or Inspection	experience:		
VISION REQUIREMENTS VERIFIED	The undersigned ve	rifies that the individual r	amed above has

at the visual requirements of par.3.2.1(1)ANSI N45.2.6-1973

We certify that the statements in this record are correct and that the individual named above is qualified to perform the activities listed, in accordance with Philadelphia Electric Co. Maintenance Division Procedure MA-12.

Signed Date

1			Star Harrison
C	HAINTENANCE DIVISION	PEACH BOTTOM ATOMIC POWER PLANT MAINTENANCE DIVISION EVALUATION OF JOB PERFORMANCE	
		HANDLING EQUIPMENT AND RIGGING INSPECTION	
	NAME:		
	MAL10,	PAYPOLL NO .:	
		The capabilities of this inspector are in accordance with the gualifications specified for the job. I recommend extension of his current certification as a gualified inspector for a period not to exceed two years.	
		The capabilities of the inspector are not in accordance with the qualifications specified for the job. He should be removed from the list of certified inspectors until such time as he has received the additional training noted below.	
6.			

Rigging Supervisor

Date

ADDITIONAL TRAINING REQUIRED:

APPROVED:

Engineer-In-Charge, Maintenance Division/Date

Form MDr-5

	that 436 od while te Division	Date	.							
Sac. Sec. No.	The undersigned certifies th performed the duties listed assigned to the Maintenance	Verification								Date
P.R. No.	I I I I eit Results ret Inspection ret Results	s/no Repo							 	•
a. 	el I ement Insp. Procedures	Ves/no						 1.		
PHILADELPHIA ELECTRIC COMPANY	RECORD OF INSPECTION ASSIGNMENTS	Name of Equipment (Peach Bottem, unless otherwise specified)								Approved by:
1		4								



PEACH BOTTOM ATOMIC POWER PLANT

MAINTENANCE DIVISION RICGING & HANDLING EQUIPMENT

FIELD INSPECTION REPORT

EQUIPMENT NO.

EQUIPMENT DESCRIPTION:

PURPOSE OF INSPECTION:

RESULTS:

COMMENTS:

Prepared by:			
	Maintenance	Rigging	Supervisor
Date:			
Reviewed by:			
	Engineering	Section	Representative
Date:			· · · · · · · · · · · · · · · · · · ·

•

