

Release for transferred
Production

D. 7-11

THE UNDERSIGNED AGREE TO

RELEASE FOR TRANSFERRED
PRODUCTION

OF INSTRUMENT CATHODE-RAY TUBE

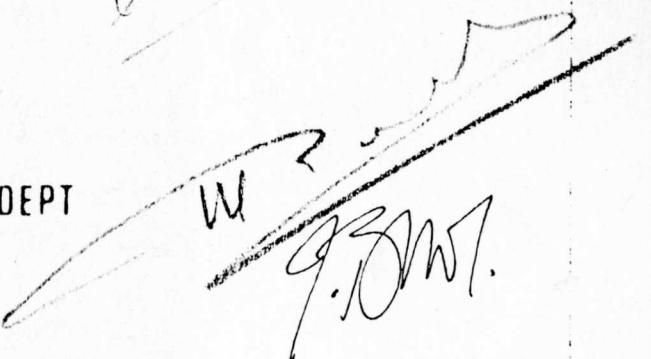
TYPE D.7-11

(Production Centre: Brive)

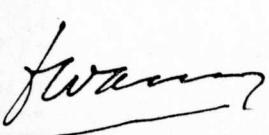
NAME	DEPARTMENT	SIGNATURE
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Mr. Modderman	COMMERCIAL DEPT	
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Mr. Verhoeven	DEVELOPMENT DEPT	
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Mr. Radstake	MANUFACTURING DEPT	
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Mr. Bru

Mr. Wassenaar	QUALITY LABORATORY	
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Mr. Menet



DATE 18.2.1975

ELCOMA

KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR-84/75.034

2-1

75-02-21

ONDERWERP : Release for transferred production in Brive of type:
DH7-11

The CRT type D7-11 made in Brive has been tested in Eindhoven on several parameters according to the F,L and life test specifications, to come to a.

"Release for transferred production" in Brive.

Annexed reports give test-and measuring-results of the above mentioned CRT -types.

As can be seen from the results, summarised in report RAR 34/75035 dated 75-02-21, these type can be given, "Release for transferred production" in Brive..

K. Wassenaar.

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KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR-84/75.034

2-1

75-02-18

ONDERWERP : Release for transferred production DH7-11

1) Content : Resume of test II results

RAR-84/74-125 content test II results batch 1
74.141 content test II results batch 2
74.142 content test II results batch 3
74.155 content test II results batch 4
74.156 content test II results batch 5
74.164 content test II results batch 6
74.179 content test II results batch 8
RAR-84.74.166 content L-test results batch 1
75.003 content L-test results batch 2
75.027 content L-test results batch 3
50.144 content lifetest results batch 1
50.150 content lifetest results batch 2 en 3
50.153 content lifetest results batch 2
50.155 content lifetest results batch 3
resume of lifetest results

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2) Summary of test II results

a. batch 1 up to and 6 received 363 pieces
measured 363 pieces
good after repair 278 pieces
rejected 85 pieces

Rejected: 12x gasvalue too high 8x insulation F/G1 too high
3x bad screen quality 7x G1-modulation too high
18x dirt in diaphragm 29x spotcharging T plates
3x usefull scan too small 4x If too high
2x dirt on defl.plates 1x heater broken
1x broken

In the first 6 batches we rejected tubes due to:

- a) gasvalue
 - b) emission
 - c) focusfaults
 - d) insulation F/G1
 - e) sparking at high + tension
- All these problems are solved

b. Batch 7 up to and 16 received 1352 pieces
measured 124 pieces
rejected 4 pieces : 2x insul.F/G1
1x screen qual.
1x usefull screen

We did not meet problems with the quality of these batches,
it was not necessary to reject any of these batches.

3

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Kwaliteits Laboratorium Professionele Katodestraalbuizen

RAH-84/75.034

2-2

75-02-18

ONDERWERP :

3) Summary of L-test results

- batch 1 The electrical and mechanical measurements are satisfactory
batch 2a The mean value of -Vg1 is rather low, but within tolerances
 b Modulation of some tubes is rather high, but within tolerances.
 The remaining electrical and mechanical measurements
 are satisfactory.
batch 3 1 Tube -Vg1 and Ik rather low but within tolerances
 The remaining electrical and mechanical measurements
 are satisfactory.

Remark: Except the faults occurring in the first batches as
already mentioned in summary of test II results,
the results are good.

4) Summary of lifetest results

- batch 1 The results are satisfactory
batch 2 The results are satisfactory
batch 3 2 Tubes Ik after 1000 hours rather low but within
 tolerances.
 2 Tubes gasvalue good after 1000 hours

Burned over tubes(50.150):1 tube insulation K/C1 after 1000 hours
(to repair gas and/or emission):1 tube modulation too high after
1000 hours.

Remark: The general impression is good.

5) Conclusion

From the results we conclude that there is no objection against
release of C.P.T. type DH7-11 for production and measuring in
Brive.

G.Geevers

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 Menet
 Varekamp
 Wassenaar

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QUALITY LABORATORY PROFESSIONAL TUBES

RAR-83 74 125

- 1 -

1971-10-02.

RELEASE FOR TRANSFERRED PRODUCTION DIL-11

Received 15 samples.

6 x poor insulation E/G1 2 x 300 uA

1 x 165 uA

1 x 140 uA

1 x 24 uA

1 x 16 uA Limit \leq 1 uA.

Result analysis:

tube number 83

The poor insulation is caused partly by a big getter mirror.
The other part is caused by a depositing proces in grid one.
Metal and/or barium is deposited on the cathode holder.
(wrong sweeping?)

2 x gas value too high 72mA

70mA Limit \leq 50mA

1 x modulation too high (black cathode)

1 x IT too high 101 mA Limit \leq 100 mA.

5 x tubes are good.

L test and life test will be measured.

6. Gevers.

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Dechering

Meneet

Varekamp

Wassenaar.

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KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR 84/74.141

1

74-10-24

ONDERWERP : Release for transferred production DR/-11 batch 2

Received 65 pieces

marked C23
E41

Results 22 pieces good

33 pieces gasvalue too high

6 pieces modulation too high

2 pieces dirt in diaphragm.

1 piece spot burned in

1 piece stains in powder

39 pieces for sweeping to the factory

After sweeping and 1 week shelflife test

33 pieces good

6 pieces gascross

Total results after repair: 55 ex good, 10 rejected

G. Geevers.

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KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR 84/74.142

5-1

74-11-08

ONDERWERP : Release for transferred production DH-11

Batch 3

Received 35 pieces

marked C23
E41

Results: 26 pieces gasvalue too high

1 piece	spotcharging Y
2 "	dirt in diaphragm
1 "	modulation too high
5 "	good

From this batch 10 pieces sweepead again in Eindhoven.

After sweeping: 1 tube gascross

1 tube	modulation too high
8 tubes	good

Afterwards: 5 tubes on shelflife test for 1 week

5 tubes on life test for 1 week

The tubes on life test better than before (will be kept on life test until 1000 hours)

The tubes on shelflife test, no changing of values of the good tubes
The bad tubes are worse.Afterwards we have send the lot of 17 tubes for sweeping to
the factory (The rest of the batch)

After 1 week shelflife test

Results: 3 pieces gascross
14 pieces good

Total results after sweeping in Eindhoven

22 tubes	good
1 tubes	spotcharging Y
2 tubes	dirt in diaphragm.
4 tubes	gascross
1 tube	modulation too high
5 tubes	on life test.

G. Geevers

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Menet
Varekamp
Wassenhaar

KWALITEITS-LABO

TORIUM PROFESSIONELE KATODESTRAALBU

Type : DH.7-11

Instellingen brandraam, nr.

Buisnr.

pos.

V_FV_{kantoor}

V

Speciale metingen of wensen:

Aantal : 5

1 245

V

V_{g4}

:

V

V

KV

Datum : 74-10-28

2 354

V

V_{nav.}

:

V

V_I

:

μA

Inzender:

3 218

V

Raster

:

x

mm

Poederp.:

4 263

V

V

V

V

Pomvoorschr.:

5 289

V

V+K/-F

:

V

V

Brandvoorschr.:

6

V

V-K/+F

:

V

Fabr. datum :

Gepulst/niet gepulst

aantal branduren

-

-V_{g1}

15 μA

I_L

Kat. opp.

I_kI_L

bij

bij

V61-0V

V62-0V

V

V

V

0h

36-76

NOT.

NOT.

≥ 600

NOT.

NOT.

Eenheid

V

V

μA

μA

V

174-10-28

0

48

32

0

1080

0

24

GEEN

74-11-06

160

48

26

0

1110

0

22

"

500

500

0

0

0

1000

1000

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ELCOMA

KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAK 84/74.155

1

74-11-26

ONDERWERP : Release for production DH7-11 batch no 4

Received 88 piecescode nr. C23
E4J

Results: measured 16 pieces

good 5 "

2 pieces dirt on diaphragm

2 " modulation too high

2 " " " " + gasvalues too high

4 " " " " + " " " " +

1 " gascross

gascross

86 ex for sweeping to factory Eindhoven

1x for analysing to Mr. Radstake (dirt diaphragm)

1x broken in Eindhoven

Results after repair:

After sweeping 86 pieces

6x spotcharging Y

5x modul. too high

1x broken heater

74x good (delivered to the store)

G.Geevers

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Menet

Varekamp

Wassenaar

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RAI 84/74.1 pt

1

74-11-26

ONDERWERP : Release for transferred production DH7-11 batch5

Received: 44 pieces : a. 34 pieces with yellow mark
b 10 pieces without mark code nr C23
E4J

a) Results 34 pieces

10 pieces gascross
3 pieces modulation too high
5 pieces spotcharging Y
1 piece dirt on deflection plate
1 piece dirt on diaphragm.
7 pieces high tension
7 pieces good delivered to the store

27 pieces for sweeping send to the factory in Eindhoven for repair.

b) results 10 pieces

9 pieces good delivered to the store
1 piece at high tension sparking near aquadag
1 piece for sweeping send to the factory.

After sweeping 28 pieces(a+b)

3x dirt on diaphragm
1x " defl.plate
8x spotcharging Y

16x good(delivered to the store)

Total result of 44 pieces:

32 pieces good
12 rejected.

G.Geevers

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RAR 84/14.164

1

74-11-27

ONDERWERP : Release for transferred production DH7-11 batch 6

Received 116 pieces

code nr. C25
E4J

Results 85 pieces good

14	"	spotcharging (2x analyse)
10	"	dirt in diaphragm(2Xanalyse.)
3	"	gascross (repair)
2	"	useful scan x too small
1	"	dirt on defl.plate
1	"	modulation too high(repair)

Remarks:

1. Flash-over/ emission.

Several tubes of the 85 "good" pieces have flash-overs aquadag gun, without influence on cathode emission, therefore they are accepted.

2. Spotquality: (dirt in diaphragm, charging Y-plate.)

Of the 85 accepted tubes, about 30% show dirt on diaphragm and spotcharging. According to normal criteria they would have been rejected. Because of a backlog in production we have accepted this tubes in consult with the Commercial Department.

Analysis: Cathode oblique welded.

G1-G2 oblique: 1,71 - 1,83

1,69 - 1,71

1,69 - 1,84. Limit 1,7 \pm 0,02

Also found fingerprints on Y plates.

3. Screenburning.

The result of 2 tubes was 9,5 and 8,5%. Of the tubes which were swiped over (previous batch.) the burning in values were 2,3 and 4,9%.

This burning in results are found at a high screenloading, therefore not the absolute values are important, but the difference.

Conclusion: The sweeping in Brive is presumably not optimal.
(too wide scan?)

4. Lifetest. Of this batch 6 tubes are put on lifetest.5. L-test: Of this batch 5 tubes will be measured on L-test.6. Total result after repair. (sweeping.)

4 tubes after sweeping good.

Total: 69 pieces Good.

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G. Gevers.

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KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR - 84/74.150

1-1

74-10-10

ONDERWERP : Release for transferred production D H 7 - 11 batch 8

Received 253 pieces

Measured 32 pieces(normal inspection)

Good 30 pieces(2 tubes have fl.shover aquadag-gun
without any influence on the modu-
lation/emission)

1 piece spotcharging Y plates.

1 piece insulation F/g1

Batch is good.

Delivered to the store 247 pieces

Will be used for L-test and life test

4 pieces + 1 piece spotcharging
to be scrapped 1 piece insulation F/g1

Remark: The Vg1(cut-off) is rather low, see figures below:

The range for the Vg1 for cut-off is 30 to 50 V, so the average value should be about 50 to 55 V. In that case the risk of rejects on too low Vg1 is smaller.

Tube nr. Vg1 (v)

916	46	G.Geevers.
945	46	
962	42	
963	44	
973	46	
979	36	
981	42	
983	38	
987	39	Copie messrs. Decherding
1063	39	Menet
1065	47	Varekamp
1067	44	Wasseniar
1075	41	
1076	39	
1080	42	
1084	40	
1087	45	
1094	42	
1104	47	
1114	45	
X	44,7	
S	5,2	
X-3S	29,1	
X+3S	60,3	

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KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR 24/11.162

11-1

74-11-22

ONDERWERP : Release for transferred production DH-11

First batch

Test results are given on attached sheet.
no 2 up to and 8 incl. I-test sheet.
no 9 and 10 lifetest sheet.

Conclusion

0 hours results: Brightness of some tubes is rather low. ~~measurements~~.
The remaining electrical and mechanical are
good. See also RAR-24/11.162

1000 hours: The results are satisfactory.

G.Geevert

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196-8/24/66 Phil.

STEMPEL:	C 43 649.	ONTVANGEN OP:	VOOR:	GEZIEN:						DN 7-11.	
				Recl. los. brand. 8 setel 1.							
V _E (V:)	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
V _{G1} (V:)	0	-2.50	adj. adj. adj. adj. adj. adj.								
V _{G2} (V ^a)	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
V _{G3} (V ^b)	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
V _{G4} (V ^c)	300	300	300	300	300	300	300	300	300	300	300
V _{G5} (V:)	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
V _H (V:)	R	R	R	R	R	R	R	R	R	R	R
V _J (V:)	100	100	100	100	100	100	100	100	100	100	100
I ₁ (MA)											
I ₂ (MA)											
Met. Remm. shot carb. corne. screen shot displacement Dif. flat current											
METING	9 ₁	9 ₂	9 ₃	9 ₄	9 ₅	9 ₆	Y ₁	Y ₂	X ₁	X ₂	X ₁
REMARK (T.)	1-99	7	7	7	7	7	7	7	1-8	5	1
A ₁	A ₁	A ₁	A ₁	A ₁	A ₁	A ₁	A ₁	A ₁	A ₁	A ₁	A ₁
S ₁ by	More	>250	>1800	>1200	>800	>400	2350	2350	Good	Good	Good
S ₂	"	>250	>1800	>1200	>800	>400	2350	2350	"	"	"
S ₃	"	>100	>100	>100	>100	>100	2350	2350	"	"	"
S ₄	"	>100	>100	>100	>100	>100	2350	2350	"	"	"
S ₅	"	>100	>100	>100	>100	>100	2350	2350	"	"	"
S ₆	"	>100	>100	>100	>100	>100	2350	2350	"	"	"
S ₇	"	>100	>100	>100	>100	>100	2350	2350	"	"	"
S ₈	"	>100	>100	>100	>100	>100	2350	2350	"	"	"
S ₉	"	>100	>100	>100	>100	>100	2350	2350	"	"	"
X	>250	>1800	>1200	>800	>400	>200	2350	2350	"	"	"
R	0.	0	0	0	0	0	280000	280000	"	"	"
S P 5 STUKS 100.											
EISEN											
BLADEN BLÄTTER FEUILLES SHEETS											
BLAD BLATT FEUILLE SHEET											
EENHEIDEN											
CONCLUSIE.											
DN 7-11.											
DN 7-11.											
N.V. PHILIPS' GLOEILAMPENFABRIEKEN, EINDHOVEN, NEDERLAND.											
22000-529 8											

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199 - 84/74/66 their's
N: 74301

EISEN		S.P. 5 STUKS	100%	EENHEDEN	BLADEN	PLAAT
BUSNUSMNR	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
14 (V=)	6.3	6.3	6.3	6.3	6.3	6.3
141 (V=)	adj. adj.	adj. adj.	adj. adj.	adj. adj.	adj. adj.	adj. adj.
142 (V=)	1200 1200	1200 1200	1200 1200	1200 1200	1200 1200	1200 1200
143 (V=)	fore fore	fore fore	fore fore	fore fore	fore fore	fore fore
145 (V=)	300 300	300 300	300 300	300 300	300 300	300 300
146 (V=)	1200 1200	1200 1200	1200 1200	1200 1200	1200 1200	1200 1200
147 (V=)	0 0	head head	line line	adj. adj.	0 0	line 0
148 (V=)	0 0	time time	head head	0 0	adj. adj.	line line
149 (V=)	0 0	time time	head head	0 0	adj. adj.	line line
146 (V=)	SSIV SSIV	SSIV SSIV	SSIV SSIV	SSIV SSIV	SSIV SSIV	SSIV SSIV
Effect (mm)	20 20	do do	do do	6/100 6/100	8/100 8/100	12/100 12/100
METING	Y X	Y ₁ Y ₂	X ₁ X ₂	K ₁ K ₂	K ₂ . const.	aligning bar
Comment (T)	2/11-12-13/11-12-15					20%. between given grades, grades
		A ₁		B ₁		
				B ₁		
49 -10 0	3.25 3.25	10.65 10.65	+1.0 -1.5	+1.5 +2.0	+2 +2	90 -1
59 -10 0	3.60 3.60	11.75 11.75	-1.5 +3.2	-2 -2	+5 +5	90
20 +0.6 +0.8	3.25 3.25	11.0 11.0	-8 -9	-1.5 -1.5	+4 +4	91 +1.5
84 -0.8 -0.8	3.55 3.55	11.55 11.55	-2.0 +1.4	-6 -1.3	+5 +5	91 +4.5
95 0 0.2	3.65 3.65	11.3 11.3	-1.3 +1.3	+1.3 +1.3	+0.5 +0.5	90 -0.5
X -0.8. +0.5	3.66 3.66	11.35 11.35	-2 +1	+3 +1	+5 +5	90.6 +1.1
R 1.6. 0.8.	0.20. 0.20.	4.05 4.05	3.0 3.0	2.9 2.9	3.3 3.3	4. 4.5
MIN. -6 -6	3.3 3.3	9.5 9.5			-9.5 9.5	
MAX. +6 +6	4.0 4.0	11.9 11.9	2.0 2.0	2.0 2.0	+9.5 9.5	+9
X MIN.						
X MAX.						
R MAX.						
MIN.						
MAX.						

CONTROLE - CONTROL
KONTROLLE - TEST

Voorlezer

N.V. PHILIPS' GLOEILAMPENFABRIEKEN, EINDHOVEN, NEDERLAND

PAR
SIGN

BLADEN	BLAD
BLÄTTER	BLATT
FEUILLES	FEUILLE
SHEETS	SHEET

DH 9-11

22000.529

94264

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Form siehe oben ohne solche
Gemeinsamkeit der Eigentum uner-
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20

PAGE. 04/14/66 Sheet 2.

STAMPEL:	ONTVANGEN OP:	VOOR:	GEZIEN:	D47-11	
				247-11	
$\frac{V}{V}$	(V=)	2	2	2	6.3
$\frac{V_1}{V_2}$	(V=)			11	2
$\frac{V_2}{V_3}$	(V=)	1/1053	1/1053	2902	2902
$\frac{V_3}{V_4}$	(V=)			4069	4069
$\frac{V_4}{V_5}$	(V=)			3069	3069
$\frac{V_5}{V_6}$	(V=)			3069	3069
$\frac{V_6}{V_7}$	(V=)			3069	3069
$\frac{V_7}{V_8}$	(V=)			3069	3069
$\frac{V_8}{V_9}$	(V=)			3069	3069
$\frac{V_9}{V_{10}}$	(V=)			3069	3069
$\frac{V_{10}}{V_{11}}$	(V=)			3069	3069
$\frac{V_{11}}{V_{12}}$	(V=)			3069	3069
$\frac{V_{12}}{V_{13}}$	(V=)			3069	3069
$\frac{V_{13}}{V_{14}}$	(V=)	1/0	10	600	600
$\frac{V_{14}}{V_{15}}$	(V=)	1/0	100	600	600
$\frac{V_{15}}{V_{16}}$	(V=)	1/0	100	600	600
$\frac{V_{16}}{V_{17}}$	(V=)	1/0	100	600	600
$\frac{V_{17}}{V_{18}}$	(V=)	1/0	100	600	600
$\frac{V_{18}}{V_{19}}$	(V=)	1/0	100	600	600
$\frac{V_{19}}{V_{20}}$	(V=)	1/0	100	600	600
$\frac{V_{20}}{V_{21}}$	(V=)	1/0	100	600	600
$\frac{V_{21}}{V_{22}}$	(V=)	1/0	100	600	600
$\frac{V_{22}}{V_{23}}$	(V=)	1/0	100	600	600
$\frac{V_{23}}{V_{24}}$	(V=)	1/0	100	600	600
$\frac{V_{24}}{V_{25}}$	(V=)	1/0	100	600	600
$\frac{V_{25}}{V_{26}}$	(V=)	1/0	100	600	600
$\frac{V_{26}}{V_{27}}$	(V=)	1/0	100	600	600
$\frac{V_{27}}{V_{28}}$	(V=)	1/0	100	600	600
$\frac{V_{28}}{V_{29}}$	(V=)	1/0	100	600	600
$\frac{V_{29}}{V_{30}}$	(V=)	1/0	100	600	600
$\frac{V_{30}}{V_{31}}$	(V=)	1/0	100	600	600
$\frac{V_{31}}{V_{32}}$	(V=)	1/0	100	600	600
$\frac{V_{32}}{V_{33}}$	(V=)	1/0	100	600	600
$\frac{V_{33}}{V_{34}}$	(V=)	1/0	100	600	600
$\frac{V_{34}}{V_{35}}$	(V=)	1/0	100	600	600
$\frac{V_{35}}{V_{36}}$	(V=)	1/0	100	600	600
$\frac{V_{36}}{V_{37}}$	(V=)	1/0	100	600	600
$\frac{V_{37}}{V_{38}}$	(V=)	1/0	100	600	600
$\frac{V_{38}}{V_{39}}$	(V=)	1/0	100	600	600
$\frac{V_{39}}{V_{40}}$	(V=)	1/0	100	600	600
$\frac{V_{40}}{V_{41}}$	(V=)	1/0	100	600	600
$\frac{V_{41}}{V_{42}}$	(V=)	1/0	100	600	600
$\frac{V_{42}}{V_{43}}$	(V=)	1/0	100	600	600
$\frac{V_{43}}{V_{44}}$	(V=)	1/0	100	600	600
$\frac{V_{44}}{V_{45}}$	(V=)	1/0	100	600	600
$\frac{V_{45}}{V_{46}}$	(V=)	1/0	100	600	600
$\frac{V_{46}}{V_{47}}$	(V=)	1/0	100	600	600
$\frac{V_{47}}{V_{48}}$	(V=)	1/0	100	600	600
$\frac{V_{48}}{V_{49}}$	(V=)	1/0	100	600	600
$\frac{V_{49}}{V_{50}}$	(V=)	1/0	100	600	600
$\frac{V_{50}}{V_{51}}$	(V=)	1/0	100	600	600
$\frac{V_{51}}{V_{52}}$	(V=)	1/0	100	600	600
$\frac{V_{52}}{V_{53}}$	(V=)	1/0	100	600	600
$\frac{V_{53}}{V_{54}}$	(V=)	1/0	100	600	600
$\frac{V_{54}}{V_{55}}$	(V=)	1/0	100	600	600
$\frac{V_{55}}{V_{56}}$	(V=)	1/0	100	600	600
$\frac{V_{56}}{V_{57}}$	(V=)	1/0	100	600	600
$\frac{V_{57}}{V_{58}}$	(V=)	1/0	100	600	600
$\frac{V_{58}}{V_{59}}$	(V=)	1/0	100	600	600
$\frac{V_{59}}{V_{60}}$	(V=)	1/0	100	600	600
$\frac{V_{60}}{V_{61}}$	(V=)	1/0	100	600	600
$\frac{V_{61}}{V_{62}}$	(V=)	1/0	100	600	600
$\frac{V_{62}}{V_{63}}$	(V=)	1/0	100	600	600
$\frac{V_{63}}{V_{64}}$	(V=)	1/0	100	600	600
$\frac{V_{64}}{V_{65}}$	(V=)	1/0	100	600	600
$\frac{V_{65}}{V_{66}}$	(V=)	1/0	100	600	600
$\frac{V_{66}}{V_{67}}$	(V=)	1/0	100	600	600
$\frac{V_{67}}{V_{68}}$	(V=)	1/0	100	600	600
$\frac{V_{68}}{V_{69}}$	(V=)	1/0	100	600	600
$\frac{V_{69}}{V_{70}}$	(V=)	1/0	100	600	600
$\frac{V_{70}}{V_{71}}$	(V=)	1/0	100	600	600
$\frac{V_{71}}{V_{72}}$	(V=)	1/0	100	600	600
$\frac{V_{72}}{V_{73}}$	(V=)	1/0	100	600	600
$\frac{V_{73}}{V_{74}}$	(V=)	1/0	100	600	600
$\frac{V_{74}}{V_{75}}$	(V=)	1/0	100	600	600
$\frac{V_{75}}{V_{76}}$	(V=)	1/0	100	600	600
$\frac{V_{76}}{V_{77}}$	(V=)	1/0	100	600	600
$\frac{V_{77}}{V_{78}}$	(V=)	1/0	100	600	600
$\frac{V_{78}}{V_{79}}$	(V=)	1/0	100	600	600
$\frac{V_{79}}{V_{80}}$	(V=)	1/0	100	600	600
$\frac{V_{80}}{V_{81}}$	(V=)	1/0	100	600	600
$\frac{V_{81}}{V_{82}}$	(V=)	1/0	100	600	600
$\frac{V_{82}}{V_{83}}$	(V=)	1/0	100	600	600
$\frac{V_{83}}{V_{84}}$	(V=)	1/0	100	600	600
$\frac{V_{84}}{V_{85}}$	(V=)	1/0	100	600	600
$\frac{V_{85}}{V_{86}}$	(V=)	1/0	100	600	600
$\frac{V_{86}}{V_{87}}$	(V=)	1/0	100	600	600
$\frac{V_{87}}{V_{88}}$	(V=)	1/0	100	600	600
$\frac{V_{88}}{V_{89}}$	(V=)	1/0	100	600	600
$\frac{V_{89}}{V_{90}}$	(V=)	1/0	100	600	600
$\frac{V_{90}}{V_{91}}$	(V=)	1/0	100	600	600
$\frac{V_{91}}{V_{92}}$	(V=)	1/0	100	600	600
$\frac{V_{92}}{V_{93}}$	(V=)	1/0	100	600	600
$\frac{V_{93}}{V_{94}}$	(V=)	1/0	100	600	600
$\frac{V_{94}}{V_{95}}$	(V=)	1/0	100	600	600
$\frac{V_{95}}{V_{96}}$	(V=)	1/0	100	600	600
$\frac{V_{96}}{V_{97}}$	(V=)	1/0	100	600	600
$\frac{V_{97}}{V_{98}}$	(V=)	1/0	100	600	600
$\frac{V_{98}}{V_{99}}$	(V=)	1/0	100	600	600
$\frac{V_{99}}{V_{100}}$	(V=)	1/0	100	600	600
$\frac{V_{100}}{V_{101}}$	(V=)	1/0	100	600	600
$\frac{V_{101}}{V_{102}}$	(V=)	1/0	100	600	600
$\frac{V_{102}}{V_{103}}$	(V=)	1/0	100	600	600
$\frac{V_{103}}{V_{104}}$	(V=)	1/0	100	600	600
$\frac{V_{104}}{V_{105}}$	(V=)	1/0	100	600	600
$\frac{V_{105}}{V_{106}}$	(V=)	1/0	100	600	600
$\frac{V_{106}}{V_{107}}$	(V=)	1/0	100	600	600
$\frac{V_{107}}{V_{108}}$	(V=)	1/0	100	600	600
$\frac{V_{108}}{V_{109}}$	(V=)	1/0	100	600	600
$\frac{V_{109}}{V_{110}}$	(V=)	1/0	100	600	600
$\frac{V_{110}}{V_{111}}$	(V=)	1/0	100	600	600
$\frac{V_{111}}{V_{112}}$	(V=)	1/0	100	600	600
$\frac{V_{112}}{V_{113}}$	(V=)	1/0	100	600	600
$\frac{V_{113}}{V_{114}}$	(V=)	1/0	100	600	600
$\frac{V_{114}}{V_{115}}$	(V=)	1/0	100	600	600
$\frac{V_{115}}{V_{116}}$	(V=)	1/0	100	600	600
$\frac{V_{116}}{V_{117}}$	(V=)	1/0	100	600	600
$\frac{V_{117}}{V_{118}}$	(V=)	1/0	100	600	600
$\frac{V_{118}}{V_{119}}$	(V=)	1/0	100	600	600
$\frac{V_{119}}{V_{120}}$	(V=)	1/0	100	600	600
$\frac{V_{120}}{V_{121}}$	(V=)	1/0	100	600	600
$\frac{V_{121}}{V_{122}}$	(V=)	1/0	100	600	600
$\frac{V_{122}}{V_{123}}$	(V=)	1/0	100	600	600
$\frac{V_{123}}{V_{124}}$	(V=)	1/0	100	600	600
$\frac{V_{124}}{V_{125}}$	(V=)	1/0	100	600	600
$\frac{V_{125}}{V_{126}}$	(V=)	1/0	100	600	600
$\frac{V_{126}}{V_{127}}$	(V=)	1/0	100	600	600
$\frac{V_{127}}{V_{128}}$	(V=)	1/0	100	600	600
$\frac{V_{128}}{V_{129}}$	(V=)	1/0	100	600	600
$\frac{V_{129}}{V_{130}}$	(V=)	1/0	100	600	600
$\frac{V_{130}}{V_{131}}$	(V=)	1/0	100	600	600
$\frac{V_{131}}{V_{132}}$	(V=)	1/0	100	600	600
$\frac{V_{132}}{V_{133}}$	(V=)	1/0	100	600	600
$\frac{V_{133}}{V_{134}}$	(V=)	1/0	100	600	600
$\frac{V_{134}}{V_{135}}$	(V=)	1/0	100	600	600
$\frac{V_{135}}{V_{136}}$	(V=)	1/0	100	600	600
$\frac{V_{136}}{V_{137}}$	(V=)	1/0	100	600	600
$\frac{V_{137}}{V_{138}}$	(V=)	1/0	100	600	600
$\frac{V_{138}}{V_{139}}$	(V=)	1/0	100	600	600
$\frac{V_{139}}{V_{140}}$	(V=)	1/0	100	600	600
$\frac{V_{140}}{V_{141}}$	(V=)	1/0	100	600	600
$\frac{V_{141}}{V_{142}}$	(V=)	1/0	100	600	600
$\frac{V_{142}}{V_{143}}$	(V=)	1/0	100	600	600
$\frac{V_{143}}{V_{144}}$	(V=)	1/0	100	600	600
$\frac{V_{144}}{V_{145}}$	(V=)	1/0	100	600	600
$\frac{V_{145}}{V_{146}}$	(V=)	1/0	100	600	600
$\frac{V_{146}}{V_{147}}$	(V=)	1/0	100	600	600
$\frac{V_{147}}{V_{148}}$	(V=)	1/0	100	600	600
$\frac{V_{148}}{V_{149}}$	(V=)	1/0	100	600	600
$\frac{V_{149}}{V_{150}}$	(V=)	1/0	100	600	600
$\frac{V_{150}}{V_{151}}$	(V=)	1/0	100	600	600
$\frac{V_{151}}{V_{152}}$	(V=)	1/0	100	600	600
$\frac{V_{152}}{V_{153}}$	(V=)	1/0	100	600	600
$\frac{V_{153}}{V_{154}}$	(V=)	1/0	100	600	600
$\frac{V_{154}}{V_{155}}$	(V=)	1/0	100	600	600
$\frac{V_{155}}{V_{156}}$	(V=)	1/0	100	600	600
$\frac{V_{156}}{V_{157}}$	(V=)	1/0	100	600	600
$\frac{V_{157}}{V_{158}}$	(V=)	1/0	100	600	600
$\frac{V_{158}}{V_{159}}$	(V=)	1/0	100	600	600
$\frac{V_{159}}{V_{160}}$	(V=)	1/0	100	600	600
$\frac{V_{160}}{V_{161}}$	(V=)	1/0	100	600	600
$\frac{V_{161}}{V_{1$					

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R&R - D4/34166 Zeld S.

DH 2-11.

STEMPEL:	ONTVANGEN OP:	VOOR:	GEZIEN:	METING						CONCLUSIE
				19	20	21	22	23	24	
				59	59	59	59	59	59	
				60	60	60	60	60	60	
				61	61	61	61	61	61	
				62	62	62	62	62	62	
				63	63	63	63	63	63	
				64	64	64	64	64	64	
				65	65	65	65	65	65	
				66	66	66	66	66	66	
				67	67	67	67	67	67	
				68	68	68	68	68	68	
				69	69	69	69	69	69	
				70	70	70	70	70	70	
				71	71	71	71	71	71	
				72	72	72	72	72	72	
				73	73	73	73	73	73	
				74	74	74	74	74	74	
				75	75	75	75	75	75	
				76	76	76	76	76	76	
				77	77	77	77	77	77	
				78	78	78	78	78	78	
				79	79	79	79	79	79	
				80	80	80	80	80	80	
				81	81	81	81	81	81	
				82	82	82	82	82	82	
				83	83	83	83	83	83	
				84	84	84	84	84	84	
				85	85	85	85	85	85	
				86	86	86	86	86	86	
				87	87	87	87	87	87	
				88	88	88	88	88	88	
				89	89	89	89	89	89	
				90	90	90	90	90	90	
				91	91	91	91	91	91	
				92	92	92	92	92	92	
				93	93	93	93	93	93	
				94	94	94	94	94	94	
				95	95	95	95	95	95	
				96	96	96	96	96	96	
				97	97	97	97	97	97	
				98	98	98	98	98	98	
				99	99	99	99	99	99	
				100	100	100	100	100	100	
										EINDHOVEN
										25/3/1964

ELCOMA

KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR-64/7 .005

14-1

7-01-07

ONDERWERP : Release for transferred production DH 7-11 batch 2
L-test and lifetest results.

1) Content:

Test results, given on attached sheets.

Sheet no 2 up to and 8 gives L-test results

Sheet no 9 gives life test results of tubes sweeped
again in Eindhoven.

Sheet no 10 and 11 gives lifetest results of the 2nd
release batch.

2) Summary of results

a. 0 hours (see also RAR-64/74.141 and RAR-64/74.142)

1) The mean value -Vgl (cut off) is rather low,
but within tolerances.

2) The modulation of some tubes is rather high,
but within tolerances

3) The other electrical and mechanical measurements,
are satisfactory.

b. 1000 hours

1) Of the tubes that were burned over (life testnr. 50150)
the results of 5 tubes is:

1 tube : insulation k/g1

1 tube : modulation too high

2) life test nr 50153: good (7 tubes)

3) Conclusion

Except the faults occurred in the first batches (gas,
spotcharging and sparking at high tension) as
already mentioned before, the results are good.

G.Geevers

Copy Masters.: Dechering

Menet

Varekamp

Wassenaar

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P
E
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E
d'obligations étrangères,
l'annulation à des
est perdue qu'avec

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Kintbury en. La reproduction
sans quelque forme
d'autorisation écrite de la
maire.

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四

**CONTROLE - CONTROL
KONTROLLE - TEST**

Voorlopi

N.V. PHILIPS' GLOEILAMPENFABRIEKEN, EINDHOVEN, NEDERLAND

22000 529

DH 2-1

48254

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PPR-84/2505 Blad 3

D47-11.

STEMPEL:	ONTVANGEN OP:	VOOR:	GEZIEN:	
			1/4/1947	2/4/1947
V.E. (V=)	6.3	6.3	6.3	6.3
V.G. (V=)	adj. adj.	adj. adj.	adj. adj.	adj. adj.
V.G. (V=)	1200	1200	1200	1200
V.G. (V=)	far far	far far	far far	far far
V.G. (V=)	300 300	300 300	300 300	300 300
V.G. (V=)	1200	1200	1200	1200
V.Y. (V=)	0 0	dead dead	live live	0 0
V.Y. (V=)	0 0	dead dead	dead dead	0 0
V.Y. (V=)	0 0	live live	dead dead	live live
V.Y. (V=)	0 0	adj. adj.	adj. adj.	0 0
Ig. 1 (469)	S/J/V S/J/V	S/J/V S/J/V	S/J/V S/J/V	Ig. 1 (469)
diff. (mm)	20 20	do do	do do	do do
METING	Y X	Y ₁ Y ₂ X ₁ X ₂	Y ₁ Y ₂ X ₁ X ₂	Y ₁ Y ₂ X ₁ X ₂
Remark (T.)	11-12-30 11-12-34	5-11-12-15	12-12-64	40 11-12 14
A1	A1	A1	A1	A1
1654 -0.5 +0.5	4.5 4.5	10.0 10.0	5.2 5.2	<2 <2 <2 <2
2655 -0.5 -1.0	9.62 9.62	10.85 10.85	4.2 4.2	<2 <2 <2 <2
3661 -2.0 -2.5	8.65 8.65	10.9 10.9	4.8 4.8	<2 <2 <2 <2
4713 -0.5 0	9.0 9.0	10.9 10.9	4.2 4.2	<2 <2 <2 <2
5720. +5.5 0	9.7 9.7	10.85 10.85	<2 <2 <2 <2	0 0 0 0
X	0 -0.6	3.65 3.65	10.86 10.86	<2 <2 <2 <2
R	5.5 3.0	0.3 0.3	0.1 0.1	0 0 0 0
MIN	-6	-6	-6	5. 5. 5.
MAX	+6	+6	+6	+9 +9 +9 +9
X MIN.				
X MAX.				
R MAX.				
MIN				
MAX				
S.P. 5 STUKS 100%				
EENHEDEN	mm mm	mm mm	mm mm	mm mm
CONCLUSIE				

CONTROLE - CONTROLE

KONTROLLE - TEST

Voorlopig

L
CODE N.
TYPE

BLADEN
BLÄTTER
FEUILLES
SHEETS

BLAD
BLATT
FEUILLE
SHEET

D49-11.

N.V. PHILIPS' GLOEILAMPENFABRIKEN, EINDHOVEN, NEDERLAND.

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STEMPEL:	ONTVANGEN OP:	VOOR:	GEZIEN:		DH 9-11.
			DH 9-11.		
1/1	(V=)	6.3	6.3	6.3	
1/1	(V=)	0	0	0	
1/2	(V=)	1200	1200	1200	
1/2	(V=)	par	par	par	
1/2	(V=)	300	300	300	
1/2	(V=)	1200	1200	1200	
1/4	(V=)	R	R	R	
1/1	(V=)	40x50	35φ	30x40	
1A	(mA)	read	read	read	
1g6	(mA)	had read ejnu.	6	cjv	
					10 10
					CJV CJV Lijv Lijv CJNv
METING		date	last	mod	
1A.	1g2	current	current	1g1	
		2g6	2g6	1g1	
REMARKS Q)	10	1.9	1.9.20.	21	
					1-23-63
					1-25-1-1-22-26-27-28-66
					1-22-11-29-60
					1-10-2
BUSINESSNUMBER					
637	890	630	644	935	
635	960	560	70	365	
636	930	550	0	35	
471.5	1300	830	0	93	
520.	1130.	790	0	92	
X	966	684	0	68	
R	950	300	0	62	
MIN	600		14	95	
MAX			18	96	
					X MIN
					X MAX
					R MAX
					MIN
					MAX
EISEN					
S P 5 STUKS. 100					
BLADEN					
PAR					
PAR					
PAR					
SIGN					
BLÄTTER					
FEUILLES					
LEAVES					
BLAD					
BLATT					
FEUILLE					
362-5.					
CONCLUSIE					
CODE N.					
TYPE					
DH 9-11.					
Voorlopig					
CONTROLE - CONTROLE					
KONTROLLE - TEST					
N.V. PHILIPS GLOEILAMPENFABRIEKEN EINDHOVEN, NEDERLAND					
22000 529 B					
CONCL					

Eigendom van de N.V. Philips' Gloeilampenfabrieken, Eindhoven. Vereeniging radicale of uitschelding aan dieven in heel Vlaanderen. Is vondens schriftelijke toestemming van eigenares niet gesoekt.

Figurinentum der N. V. "Philistia" (Gesamtansicht mit Säulen, Türländern, Verteilung, oder Formen nach, ohne Schild und Gestalter).

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Kinderon. Reproduction or disclosure to third
in any form whatsoever, not allowed without written
of the proprietors.

DH 7-11					
STEMPEL	ONTVANGEN OP:	VOOR:	GEZIEN:		
V.E. (U°)	6.3	6.3	6.3		
V.E. (U°)	avg.	avg.	avg.		
V.E. (U°)	1800	1200	1200		
V.E. (U°)	par	par	par		
V.E. (U°)	300	300	300		
V.E. (U°)	1200	1200	1200		
V.E. (U°)	1200	1200	1200		
V.E. (U°)	R	o	o		
V.E. (U°)	40x40	10x10	10x10		
Z.E. (avg.)	40	5/cm²	7.		
6					
Bren. strong made in am. has changeing coloration					
7.					
brightness after glow.					
METING					
Reward (7)					
1-81					
R1					
1654					
2655					
3161					
4913					
5220					
X					
R					
MIN 1.6					
MAX					
X MIN					
X MAX					
R MAX					
MIN					
MAX					
EENHEDEN					
PAR PAR PAR SIGN					
CODE N. TYPE					
BLADEN BLATTER FEUILLES SHEETS					
BLAD BLATT FEUILLE SHEET					
CONCLUSIE					
26					
CONTROLE - CONTROLE					
KONTROLLE - TEST					
Voorlopig					
N.V. PHILIPS GLOEILAMPENFABRIEKEN, EINDHOVEN, NEDERLAND.					
DH 7-11.					
(T) - See RV 6-S-0/402					

Eigenaam van de N.V. Philips' Gloeilampenfabrieken, Eindhoven. Vermogen vergoeding van derden in wille voorn ook, is zonder schriftelijke toestemming van eigenaam niet toegestaan.

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Property of the N.V. Philips' Gloeilampenfabrieken, Eindhoven. Reproduction or disclosure to third parties in any form whatsoever, not allowed without written consent of the proprietors.

27

STEMPEL:		ONTVANGEN OP:		VOOR:		GEZIEN:		DH 2-11.	
1F	000	6.3	6.3	6.3	6.3	6.3	6.3		
1G ₁	(1=)	avg.	avg.	avg.	avg.	avg.	avg.		
1G ₂	(1=)	1200	1200	1200	1200	1200	1200		
1G ₃	(1=)	par	par	par	par	par	par		
1G ₄ RC	(1=)	300	300	300	300	300	300		
1G ₆	(1=)	1200	1200	1200	1200	1200	1200		
1Y	(1=)	R	R	R	R	R	R		
1K	(1=)	45	6	60	60	60	60		
1G ₁	end	0	0	0	0	0	0		
<i>Dimensie X.</i>									
<i>Dimensie Y.</i>									
METING	X	X	no.	left	left	right	right	left	right
Remark (D)	1-11-33-73-65-65 22-126-139	1-11-33-64-62-92-126-129	no.	down	down	down	down	up	up
1-11-33-64-62-92-126-129									
A1.									
A1.									
1 No linearit measured due to phototransistor Y.									
2									
3									
4									
5									
X									
R									
S P 5 STUKS 100.		EISEN		BLADEN		BLATT			
BUISNUMMER		EENHEDEN		BLATTER		FEUILLES			
		PAR		FEUILLES		SHEETS			
		PAR							
		PAR							
		SIGN							
		CODE Nr.							
		TYPE							
CONTROLE - CONTROLE		L		CODE Nr.		BLAD			
KONTROLLE - TEST		VOORLOPIG		TYPE		BLATT			
						FEUILLE			
						362-5.			
N.V. PHILIPS' GLOEILAMPENFABRIEKEN, EINDHOVEN, NEDERLAND									
22000 529 8									
CONCLUSIE									
98254									

(T) = See R/6-3-0/402.

Eigentuinen van de N.V. Philips' Gloeilampenfabrieken, Eindhoven. Vernamevolutieing of uitschrijving aan derden is welke vorm ook, is onder schriftelijke voorwaarde van eigenaars niet toegestaan.

genium der N.V. Philipp Glusius und Sohnen, Emden, ver-
trieben durch die Firma H. C. Stolzenburg, Bremen, und
hergestellt von der Firma H. C. Stolzenburg, Bremen, unter
Beteiligung der Firma H. C. Stolzenburg, Bremen.

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tieres, sans quelque forme qui
l'autorisation n'ait été de la Pl.

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Vervielältigung oder Benutzung an Dritte, in welche
Form auch, ohne seine Genehmigung der Eigentümern
nicht gestattet.

Eigenhout van de N.Y. Philips' Grootkamersfabriek te Eindhoven. Verenigingvalding of veredeling van derden in welle vorm ook. In zender schriftelijke toestemming van elektronische niet bewerkte

ELCOMA

KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR-84/75-027

10-1

75-02-03

ONDERWERP : release for transferred production DH7-11 Batch 3
L test and life test results

1) Contents:

Test results given on attached sheets.
Sheet no.2 up to and 8 give L-test results
Sheet no.9 and 10 give life test results.

2) Summary of results:

- a L-test results(see also RAR-84/74.179)
 - 1. 1 tube spot quality bad caused by charging Y plates(already known)
 - 2. 1 tube -Vgl and lk rather low but within tolerances.
 - 3. The other electrical and mechanical measurements are satisfactory.
- b Lifetest(Remark: For this test rejected tubes of a previous batch are used)
 - 1. 0 hours
 - 1 tube modulation too high(after 320 hours good)
 - 1 tube modulation rather high(after 320 hours)
 - 2 tubes gasvalue.
 - 2. 1000 hours
 - 2 tubes lk rather low but within tolerances
 - 2 gasvalues good after 1000 hours.

3) Conclusion

The total results are satisfactory.

G.Geevers

Cop. messrs.: Bechering
Menet
Varekamp
Wassenaar

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27000 529 R

(T) = See RT. 6-3-0/402

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Die Verwendung eines solchen Körpers ist eine ungewöhnliche Form der Spiegelung, aber sie ist sehr einfach, so daß sie auch ohne viel Erkenntnis des Experimentum gestaltet.

vereniging uit te stellen en daarvan een derde in welke van oek is onder schriftlike bestemming van genoeg met groetveld.

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Ergebnisse der Neurophysiologie des zentralen Nervensystems, die die Verteilungsfähigkeit solcher Formen auch ohne aktive Erregung bestätigen.

Eigenlijk van de N.V. Philips' Elektroneerfabrieken, te Haarlem, vermoedt volgtende oorzaak: we denken dat de vorm en ook de zachte aard van de gemaakte teregtmaat van eigenaars niet genoegdij.

Eigendom van de N.V. Philips' Gloeilampenfabrieken, Eindhoven. Verveilijding of uitlevering aan derden in welke vorm ook, is zonder schriftelijke toestemming van eigenares niet toegelaten.

STEMPEL:		ONTVANGEN OP:		VOOR:		GEZIEN:		DH 7-11.	
V _F	(V=)	6.3	6.3					6.3	
V _{G1}	(V=)	act.	act.					act.	
V _{G2}	(V=)	1200	1200	1200				1200	
V _{G3}	(V=)	for	for	for				for	
V _{G45}	(V=)	300	300	300				300	
V _{G6}	(V=)	1200	1200	1200				1200	
V _R	(V=)	R	R	R				R.	
V _X	(V=)	45	60	45				60	
for	for	40	40	40				40	

lineairdeel.
centee.

MEETING X Y.

1-11-33 35-61. 1-11-33 61-65
Demand (Y) : 72-126-129. 72-126-129

A1.

B1.

lineairdeel.
Y.

MEETING X Y.

1-11-33 35-61. 1-11-33 61-65
Demand (Y) : 72-126-129. 72-126-129

A1.

B1.

lineairdeel. X.

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PH 2-11.

GEZIEN:

VOOR:

CONTINUENCE OF

סימוכין

**CONTROLE - CONTROL
KONTROLLE - TEST**

VOORLOPI

N.V. PHILIPS GLOEILAMPENFABRIEKEN, EINDHOVEN NEDERLAND

KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

Type	DH.7-11	Instellingen brandraam, nr.				METEN EN BRANDEN VOORSCHRIFT d.d.: 30-3-71 Type: DH.7-11				GEWENSTE LEVENSDUUR 1000 UUR										
Proefnr.	50150	Buisnr.	pos.	V _F	V _{Kanon}	: 1200	V	Speciale metingen of wensen:												
Aantal : 5		1296		5,7 V	V _{d4}	: 300	V					Afwikking t.o.v. normale productie:								
Datum : 74-10-28		2324		6,3 V	V _{nav.}	: 1,2	KV	20 on 30 SERIE DRIVE OVERGEBRAND OP 226:29												
Inzender: QUL LAB.		3346		6,3 V	I _L	: 3	μA	BUIZEN MET MODULATIE EN GAS TE HOOG.												
Poederp.:		4259		7,0 V	Raster	: 40	x 60 mm	Tubes from Drive production												
Pomvoorsch.:		5252		7,0 V	V+K-F	: 110	V	Bad on modulation and gasvalue												
Brandvoorsch.:		6		V	V-K+F	:	V	Swept again in Eindhoven (after sweeping: tubes are good)												
Fabr. datum	SEPT. 74							Isolaties				Opmer-kingen.								
buis- nr.	meet- datum	aantal brand- uren		-V _{g1} bij I _L	Kat. opp.	I _k bij VG1-DV _y	I _L bij VG1-DV _y	I _{nav.} bij VG1-DV _y	Mod. V _{g1} bij I _L	Kat. eff.	Gas- kruis	Scherf- kwal.	Held. △	Scherf- opi.	Lek- stroom	Gas +K/-F -K/+F	II	III	IV	
Eis	0 h	1000h		NOT.	NOT.	600		NOT.	≤ 23	NOT.	≤ 12,0	NOT.	≤ 18	≤ 25	≤ 25	≤ 3	≤ 3	≤ 3		
	Eenheid	V	V	μA	μA	μA	V	μA	%	V	cd/m ²	%	V	μA	μA	μA	μA	μA		
1	74-10-30	0	55	38	1390	100	20	3,19	GEEN	GOED	10,0	iets	9,9	9	23	0,2	1,8	0,4	0,5	
	74-11-06	160	52	37	1280	100	14	3,41	"	"	6,4	"	"	0,1	0,1	0,2	0,3	0,3	0,4	
	74-11-20	500	52	37	1060	60	14	2,82	"	"	9,6	"	"	1	4,4	0,2	0,3	0,3	0,4	
	74-12-11	1000	52	36	865	80	12	2,39	"	"	9,0	15,1	"	8	1	0,8	0,5	0,4	0,3	
2	0	41	25	782	55	14	2,99	GEEN	GOED	10,6	iets	9,3	12,3	10	17	3,4	2,8	0,4	0,5	
	160	40	25	870	80	13	3,44	"	"	"	"	"	"	10	6	2,5	0,2	0,3	0,3	
	500	39	26	750	50	12	2,92	"	"	"	"	"	"	10	4	0,5	0,1	0,2	0,3	
	1000	39	26	755	70	12	3,10	"	"	"	"	"	"	10	10	3,4	0,3	0,3	0,3	
3	0	48	32	996	90	17	3,00	GEEN	GOED	11,0	iets	11,2	5,1	10	32	0,4	2,2	0,4	0,4	
	160	46	32	1010	90	13	3,24	"	"	"	"	"	"	9	7	0,3	0,9	0,3	0,3	
	500	45	33	880	80	12	2,92	"	"	"	10,9	7,6	"	9	6	1,5	0,1	0,3	0,3	
	1000	43	23	839	83	12	3,92	"	"	"	22,9	22,6	"	9	6	2,3	0,3	0,3	0,3	
4	0	52	34	1260	70	17	3,36	GEEN	GOED	11,8	iets	9,9	16,1	10	35	0,3	0,8	0,4	0,4	
	160	54	35	1310	90	18	3,30	"	"	"	"	"	"	10	6	0,2	0,1	0,2	0,3	
	500	52	36	1150	80	16	3,07	"	"	"	"	"	"	9	3	5,5	0,4	0,3	0,3	
	1000	52	33	1075	40	19	2,92	"	"	"	8,0	32,2	"	9	1	0,4	0,3	0,3	0,3	
5	0	44	30	956	60	14	3,25	GEEN	GOED	10,8	iets	9,9	16,1	9	40	0,4	3,2	0,4	0,4	
	160	44	28	990	80	16	3,39	"	"	"	"	"	"	9	3	4,5	0,5	0,3	0,4	
	500	43	28	730	60	13	2,59	"	"	"	9,6	20,2	"	8	2	12	1,0	0,3	0,3	
	1000	38	NTH	410	10	38	1,75	"	"	"	8,6	27,1	"	8	NTM	209	1,6	0,3	0,3	
6	0	160														0,0	0,0	0,0	0,0	
	500																0,0	0,0	0,0	0,0
	1000																0,0	0,0	0,0	0,0

KWAALITEITS-LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

LEVENSDUUR OSCILLOGRAAFBUIZEN

Type : DH 7-11 Instellingen brandraam, nr. 17 METEN EN BRANDEN VOORSCHRIFT d.d. 30-3-71 Type: DH 7-11 GEWENSTE LEVENSDUUR: 1000 uur.

Proefnr.: 50153 Speciale metingen of wensen:

Aantal : 6 serie Brive

Datum : 74-11-21 2° vrijgave serie

Inzender: qual. lab.

Poederp.:

Pomproorsch.:

Brandvoorsch.:

Fabr. datum : Okt. 74

Gepulst/dit geputst

Opmer-kingen.

buis-nr.	meet-datum	aantal branduren	-V _{g1}	-V _{g1} 15 μA	Kat. bij opp.	I _k bij V _{g1} =0V	I _{bij} / V _{g1} -0V	Mod. bij V _{g1} -0V	Kat. eff.	Gas- kruis I _{nav.}	Scherm- kwal.	Hel- der heid	Schem- lēk/ opt.	Held. △	Lek- stroom	Isolaties				
			0 h	30-76	not.	not.	≥ 600	≥ 14	≤ 23	not.	≥ 23	not.	≥ 12,0	not.	≥ 4,18	≤ 4,18	≥ 25	≤ 25	≥ 3	≤ 3
1	74-11-21	0	Eis	1000h	V	V	μA	μA	V			cd/m ²	%	V	μA	nA	μA	μA	μA	
			Eenheid																	
74-11-23	160	49	35	0	1230	90	13	3,59	geen	goed	12,8		5	20	0,1	0,1	0,2-0,2	0,2-0,2	0,2-0,2	
74-12-12	500	47	32	0	1095	78	12	3,30	"	iets	12,5	2,3	5	10	0,2	0,1	0,2-0,2	0,2-0,2	0,2-0,2	
75-01-02	1000	47	31	0	1132	42	12	3,32	"	matic	11,8	7,8	5	10	0,2	0,2	0,2-0,2	0,2-0,2	0,2-0,2	
						58	12	3,83	"	"	11,2	12,8	5	8	0,4	0,1	0,2-0,2	0,2-0,2	0,2-0,2	
2	0	50	33	0	1270	80	13	3,60	geen	goed	12,2		7	10	0,1	0,1	0,2-0,2	0,3-0,3	0,3-0,3	
		50	35	0	1220	80	13	3,45	"	iets	11,5	5,7	7	2	0,2	0,2	0,3-0,3	0,3-0,3	0,3-0,3	
		500	34	0	1210	50	13	3,42	"	matic	10,9	10,7	7	2	0,2	0,1	0,2-0,2	0,3-0,3	0,3-0,3	
		1000	50	34	0	1223	43	14	3,46	"	"	10,9	10,7	7	1	0,6	0,1	0,2-0,2	0,2-0,2	0,2-0,2
3	0	50	35	0	1250	90	14	3,54	geen	goed	12,8		9	35	0,1	0,1	0,2-0,2	0,3-0,3	0,3-0,3	
		50	34	0	1200	100	15	3,39	"	iets	12,2	4,7	9	6	0,5	0,1	0,2-0,2	0,3-0,3	0,3-0,3	
		500	34	0	1202	42	15	3,39	"	matic	11,5	10,2	9	5	0,4	0,1	0,2-0,1	0,2-0,1	0,2-0,1	
		1000	50	34	0	1086	56	14	3,07	"	"	11,5	10,2	9	4	0,6	0,2	0,2-0,2	0,2-0,2	0,2-0,2
4	0	48	34	0	1210	90	12	3,64	geen	geed	16,0		9	25	0,1	0,1	0,2-0,3	0,3-0,3	0,3-0,3	
		48	32	0	1150	90	13	3,45	"	iets	14,4	10,0	9	9	0,2	0,1	0,2-0,2	0,3-0,3	0,3-0,3	
		500	32	0	1153	62	13	3,45	"	matic	13,8	13,8	9	7	0,2	0,2	0,2-0,3	0,2-0,2	0,2-0,2	
		1000	48	32	0	1020	40	13	3,05	"	"	13,8	13,8	9	5	1,4	0,2	0,2-0,2	0,2-0,2	0,2-0,2
5	0	46	33	0	1070	70	12	3,46	geen	goed	15,7		4	16	0,1	0,1	0,2-0,2	0,3-0,3	0,3-0,3	
		46	29	0	1040	60	16	3,23	"	iets	15,0	4,5	4	6	0,1	0,1	0,2-0,2	0,3-0,3	0,3-0,3	
		500	46	29	0	1060	40	15	3,40	"	matic	14,4	8,3	4	5	0,1	0,1	0,2-0,2	0,3-0,3	0,3-0,3
		1000	46	30	0	937	37	14	3,19	"	"	14,1	10,2	4	4	0,6	0,1	0,2-0,2	0,2-0,2	0,2-0,2
6	0	44	26	0	1000	50	18	3,42	geen	goed	14,1		9	43	0,1	0,1	0,2-0,2	0,3-0,3	0,3-0,3	
		46	28	0	1000	80	12	3,42	"	iets	12,8	9,2	9	4	0,2	0,1	0,2-0,2	0,3-0,3	0,3-0,3	
		500	44	28	0	1050	60	12	3,60	"	matic	12,2	13,5	9	4	0,2	0,2	0,2-0,2	0,2-0,2	0,2-0,2
		1000	44	29	0	1031	51	12	3,53	"	"	11,8	16,3	9	4	1,2	0,1	0,2-0,2	0,2-0,2	0,2-0,2

KWALITEITS-LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

LEVENSDUUR OSCILLOGRAAFBUIZEN

Type : DH 7 = 11 Instellingen brandraam, nr. 17 METEN EN BRANDEN VOORSCHRIFT d.d.: 30-3-71 Type: DH 7 = 11 GEWENSTE LEVENSDUUR: 1000 uur
 Proefnr.: 50155 Buisnr. pos. VF Vkanon : 1200 V Speciale metingen of wensen:
 Aantal : 5 1 655 7 ovolus V Vg4 : 300 V
 Datum : 74-12-20 2 713 8 " V Vnav. : 1,2 KV
 Inzender: Qual. Lab. 3 720 14 " V I : 3 μ A
 Poederp.: 4 654 15 V Raster : 40 x 60 mm
 Pompvoorschr.: 5 661 16 " V V+K/-F : 110 V
 Brandvoorschr.: 6 " V V-K/+F : V

relatieve for transferred productie Drive batch 3

Afwijsing t.o.v. normale productie:

Ommer-
kingen.

Ommer-

