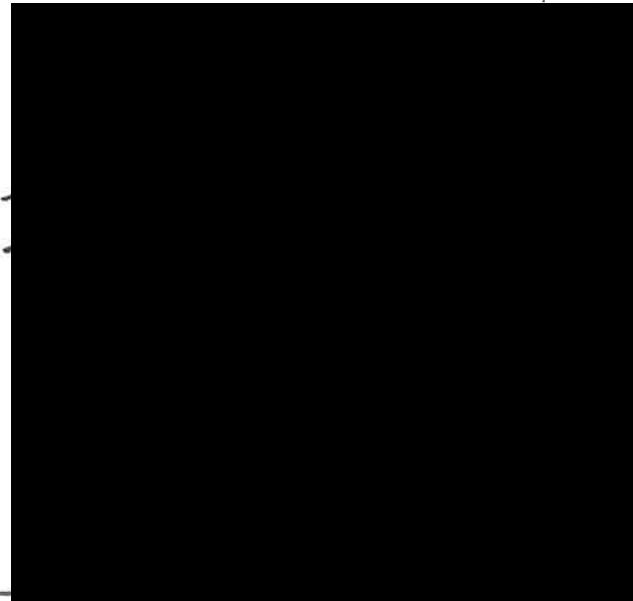


COURRIER

TIHANGE 2



AFFAIRE : TIHANGE 2 - DOEL 3

Concerne : Cure - ANNEAU SPHERIQUE
30811-002 - Réparations
Date : 8.1.76
Fournisseur : FRANACECO / Rotterdam
Nucleaire

PLANS RECUS

No	Titre
	- Rappat de la réunion du 8.1.76 à Sebourg
	- Relevé des défauts
	- Plan E1.048 - Appropriation pour réparations

Reunion : EBL. TE. FRA. RN. CKL.

Drawing 8-1-76.

Objet : Spherical Ring (Th.2.)

MM.

1. The situation

1.1 Magnaphone showed indications out of the standards.

R.N. send CKL a PV which indicated that the piece was rejected.

Then because of delay CKL and RN decided to recheck the piece. (RN estimated that a repair was possible.) RN asked then to have the authorization to machine the defects (CKL accepted but refused that the repair be done in Cockwill).

CKL asked to RN to present all the examination of this area. (CKL assisted this extra examination).

To day RN presents the results of those examinations.

1.2. A new indication was found in the piece by UT yesterday-

dimensions : 50 x 10 mm.

10 mm below the machining surface.

(CKL asked to RN to not remove this indication because the groove is already at $\frac{1}{3}$ T.)

2. R.N. explanations:

719

- 2.1 RN explains that this defect are due to hydrogen ~~flakes~~. flakes.
2. - FRA states that the delay are very possible even in case of repair because this operation is very difficult.
RN answers that the new ingot is already ordered.
3. - CKL insists on the fact that he did not ask the repair.
4. - FRA says that the weld would take place in an area with a important hydrogen content. (RN answers that this region has not a too high hydrogen content.)
5. - The new ingot will be at RN early next week (in any case RN will preforge the new ingot.)
6. - If RN machined more than $\frac{1}{3} T$ then the repair has to be examined in service (ASME XI.).
7. - The ASME SA 508 asks that one examine the defect by preparing or other way but then one go wider than $\frac{1}{3} T$ for the remaining defects. (mainly for the mentioned § 1.8 of this minute.)

3. C. running:

- 3.1 The new piece would be ready for the 23 april.
- 3.2 If the qualifications are accepted by CKL and the Customers and FRA, the repaired piece would be ready end of february. (Spec. accepted for the 22/1/76.)

4. Framework conclusions:

- 4.1. It is necessary to remove all the defects of the piece.
- 4.2. " " " perform some extra tests before welding. In front of this position the Customers can not accept the repair. (ASME XI.)

5. Qualifications:

The qualifications of RN are done on SA 533 and not 508.

SA 654 asks for same grade and same type in case of repair.
(This requirement is met by the RN qualifications.)

6. General conclusions:

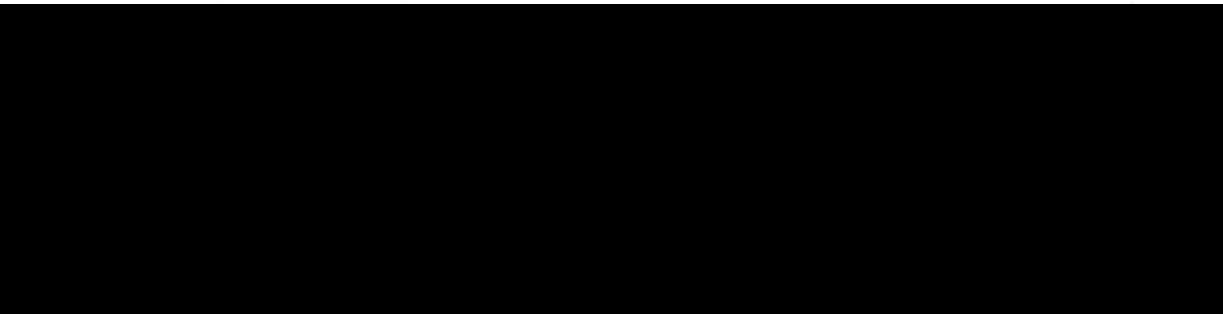
Repair is unacceptable:

- suspect metal at the boundary of the weld repair.
- indications remaining (after $\frac{1}{3}$ T.)
- qualifications ^(possibly) not in accordance with ECA (with probable delay.)
- delay very probable due to the repair - (costs of contract.)

All these considerations bring to rejection of this item.

- According to ASME ^{§ 3.12} if the defect is in the range of the acceptable weld defect (EBL ref. 1WB-35II.1)

The customers and CNE and FRA ask to R&D not to scrap this piece, because in the future it's in front of a big delay problem (due to the fact that the new piece would not be good.) The customers would accept eventually a successive inspection of this repair.



7 JAN. 1976

Rotterdam Nuclear		
MACHINING FOR BASE METAL REPAIR OF SPHERICAL RINGS ITEM 308II-002		
SCHAAL	2 : 1	20 mm
SCALE	1 : 1	40 mm
	1 : 2	100 mm
	1 : 5	200 mm
	1 : 10	400 mm
	1 : 25	1000 mm
DRAWN BY: HZEK		REVISED
DATE: 24-1-1975		APPROVED BY:
SHEET NO. 1 OF 1		DESIGNER:
SUB ORDER NO. 308II		DATE:
GEWICHT		WEIGHT

VOOR AFMETINGEN SPHERICAL RING OC2 ZIE TEK ED.006

G

F

E

D

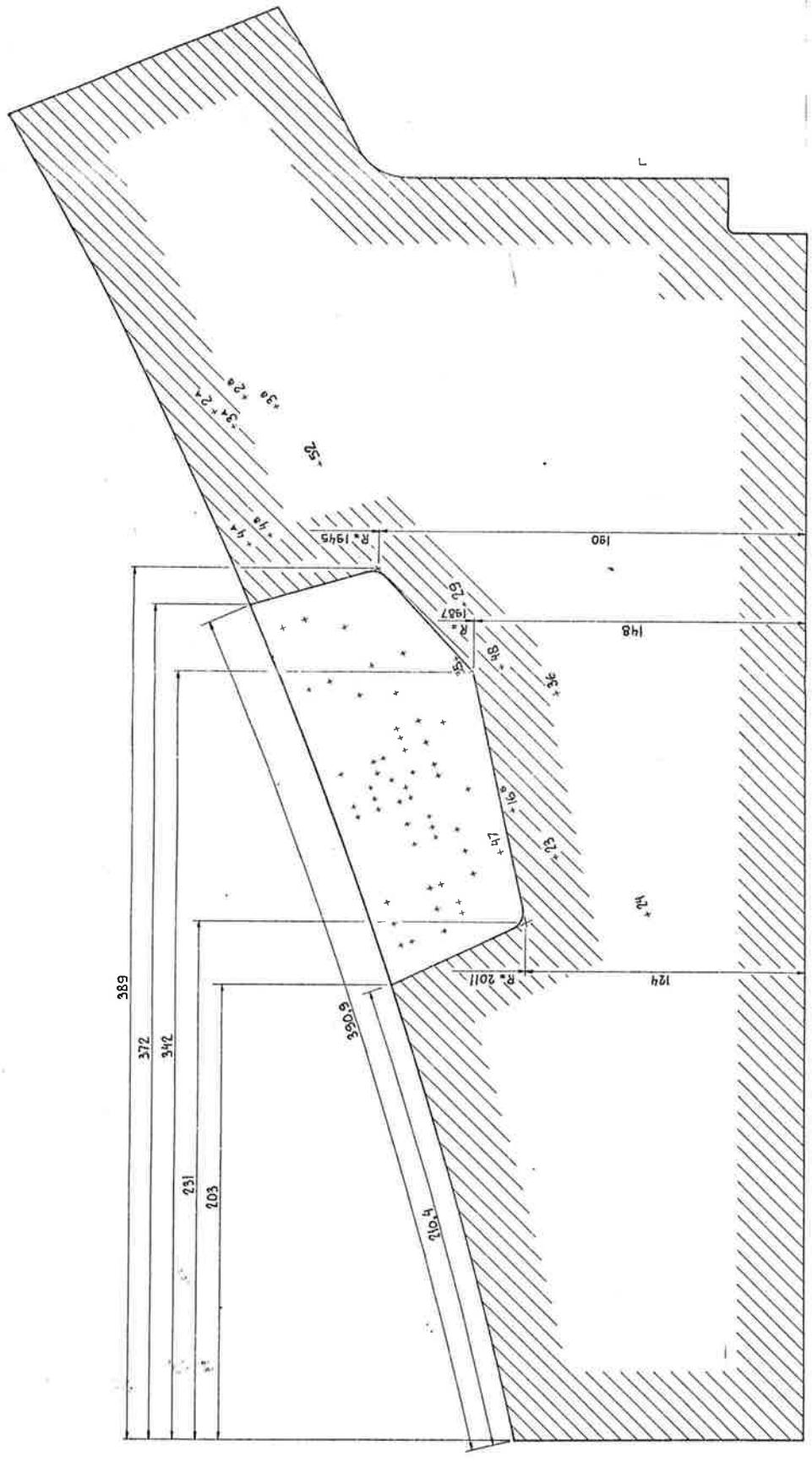
C

B

A

13.21.11 N

Anomale V12-
Réf. ou 8-3-16.



85

10	30/40	40
mm	mm	mm
80		

10

9

8

90

10/20

10/20

35

10

11

10

90

90

110

W.M. from R.W. 44 22/12/75

0-2081.

R.W. 44

NET

Soil sample location

Date, 1:10

Permeability ID

25/45
Wet
mm2035
mm

F

1030 ← depth

6

3

2

5

40
mm
soil30
mm35.50
mm45
mm40/55
mm40/50
mm30/40
mm25/30
mm10/25
mm

6

5

4

7

70
mm
soil50
mm30
mm20/35
mm30
mm80
mm
soil

5

8

30/40
mm50
mm60
mm20/35
mm30
mm40
mm50
mm
soil

5

9

40/50
mm50
mm60
mm20/35
mm30
mm40
mm50
mm
soil

5