

TREATMENT OF VACUUM COMPONENTS FOR USE WITH
ELECTROSTATIC SEPARATORS

P. Simon

I. NEW COMPONENTS

A. Vacuum pipes in anticorodal without treatment
(Surface Treatment Workshop - see A, Boulmier)

- Degreasing with perchlorethylene vapour at 120° C
- Pickling in caustic soda
- Rinsing in water
- Neutralization and light pickling in nitric acid
- Rinsing in tap water and/or demineralized water
- Air-drying

B. Vacuum chambers and pipes in anticorodal with welded flanges
(Surface Treatment Workshop - see A, Boulmier)

- All parts, except welded flanges, to be treated as above before welding
- After welding, the chamber or pipe to be degreased in a hot bath of perchlorethylene vapour (120° C)
- Drying in hot air

C. Vacuum chambers and pipes in stainless steel, with or without flanges
(Surface Treatment Workshop - see A. Boulmier)

- Degreasing with perchlorethylene vapour at 120° C,
15-20 minutes
- * - Washing with alkaline soap powder + ultra-sonics 2 x 20 min.
- Hosing down and then immersion in demineralized water
- Drying in oven under primary vacuum for 1 hour, 150° C
- * Not acquired if welding has been done outside

C. Collimators

The two types of collimators developed by A. Dind (PS) (beam k11) and J. Carrier (EF) (TC version "C") can serve as models.

E. Seals

- Viton seals baked for 24 hours at 180° C or metallic seals
- Enquire of P. Simon, or O. Martin or S. Bastin (catalogue of metallic seals for vacuum normally used in PS Divison - PS/ML 76-1).

II. USED COMPONENTS

Contact O. Martin or P. Simon in order to decide requirements for treatment,

III. PUMPING-OUT AND BAKING, MEASUREMENTS OF DEGAZING RATE AND GAZ ANALYSIS BEFORE INSTALLATION IN THE BEAM

These operations are essential, Contact P. Simon,

Distribution:

° ✓ W. Albrecht . 5 ex. (Bureau technique) EP

° ✓ J. Birabeau . 5 ex (atelier principal) SB

° ✓ A Boulmier . SB

° ✓ Chaminaud

° ✓ Coccoli

° ✓ Danloy

x version franç.

° ✓ Dind A.

envoyé le 25.3.80

° - Ferro Juzzi Michele

° angl. vers.

sent 28.3.80

° - Forrat -

° - Hoffmann . 1.

° - Lafaverge S

° - Martin O.

° - Simon J.D.

° - Vigneau .

° ✓ Lima P

° 11. Zahnd 26.3.80

J. CARRIER

EF

beide vers.

S. BASTIV

PS

28.3.80