Replacement procedure for the TPS15 with is spare

(Activity foreseen during LS2 in the PS)

See documents:
Work Dose Planning WDP No. 1259/1
Zone definition

U - Upstream
D - Downstream

1 – Outside PS ring
2 – Inside PS ring
ZONE D2, Inside ring PS – Equipment BI (BTV)

1. Close the valve for the compressed air.
ZONE U1, Outside PS ring – Team BI + TE-ABT

Intervention time: 1-4, 60 secs, 1 pers. BE-BI

1. Disconnect HP compressed air
2. Disconnect camera cable 1
3. Disconnect camera cable 2
4. Remove camera assembly

Intervention time: 1-4, 30 secs, 1 pers. (TE-ABT)
1. Close valves (1/4 Tour) TPS15 blade cooling.
2. Disconnect hose HP (Quick coupling ‘Walther’)
3. Disconnect hose LP (Quick coupling ‘Walther’)

22/06/2018
Mike Hourican (TE-ABT)
ZONE U1 & U2, Upstream flanges, Inside and outside PS ring – Team VSC

Nota: Intervention time 60 secs – 2 pers

Loosen and remove the clamping ring from the flange and insert Kapton sheet to protect the flange faces.
ZONE D1 + D2, Brides aval cote Interieure et exterieure anneau PS – Equipe VSC

Nota: Temps d’intervention 60 secs – 2 pers

Enlever le collier sur la bride en aval et inserer du Kapton pour proteger les faces des brides.

Interieure PS

Exterieure PS
ZONE D1, Outside PS ring – Shielding removal, Team EN-HE

Intervention time: 5 mins 2 pers.

Attach the lifting hook and remove the upper block.

Attach the lifting hook and remove this block
Attach the lifting hook and remove the upper block.

This allows better access to the upstream flange.

To confirm with TE-VSC
Loosen the 2 screws and fold back the articulated clamp.

ZONE U1: loosen the TPS15 clamping system – Team ABT

Intervention time: 60 secs
1 pers.
ZONE U1 et U2: Removal of the complete TPS15 assembly – Team EN-HE et ABT

Intervention time: 60 – 90 secs

Attach the lifting straps to the lifting points and lift the assembly from its locating sockets.

Remove the tank and place on its transport support.

Note: The lifting straps should be attached as shown in the image (2 additional shackles to be fitted to the upstream side. This ensures the system is well balanced when lifting.
ZONE U2, Equipment ABT – Interlock / controls

When the assembly is sufficiently raised, remove the cable from the interface box. The photo shown shows the assembly with the shielding block removed for clarity.

During the dismantling these lower shielding blocks shall not be removed.
Place the TPS15 on a temporary support and transport to North Hall for long term storage.

Time required: 10 - 15 mins

Note: The temporary support shall be mounted a mobile trolley and shall be pushed / pulled to the north hall using extended rods to reduce radiation dose.

Temporary support used in conjunction with PS rolling trolley (SMH16 exchange)