

Dose rates in mSv/h around the bridge section of the JF (calculation by M. Morev)





Dose rates in mSv/h around the TAS collimator (calculation by I. Dawson and G. Stevenson using omega factors)



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- 6. The two fixed supports inside the toroid shielding are unlocked.
- 7. The fixed support at the end of the toroid shield is removed and replaced with a rolling support.
- 8. The HF platform is removed.







- 14. The toroid is moved completly back.
- 15. The VT beampipe is removed by hand.
- 16. The toroid is moved sideways out of the beamline.





- 17. The fixed support is removed.
- 18. The scaffolding is removed.
- 19. A second HF truck is moved into position.



Dose rates in mSv/h at the back of the JD plug (calculation by M. Morev)



- 20. The disk shield is moved back.
- 21. Scaffolding is built around the disk shield.

HAD

EM

INNER

- 22. A motor and a rack is installed.
- 23. The disk shield is opened up.



Contact doserate calculated by Shupe and Hedberg using omega factors. 30 day run / 1 day cooling



Doserates in the small wheel after 100 days of running and 5 days of cooling. Calculation by M. Morev.



- 24. The disk shield is moved back onto the HF truck.
- 25. Scaffolding is built around the disk shield.
- 26. A lifting frame is attached to the disk shield.



- 27. The scaffolding is removed.
- 28. The disk shield is lifted to the surface.



- 29. The calorimeter is moved back.
- 30. Scaffolding is built.
- 31. The flange is undone.
- 32. The VA beampipe is hold by hand.



HAD Dose rates in mSv/h from the VA beampipe after a 100 day run and 5 days cooling. Calculation by M. Morev.





HAD Dose rates in mSv/h from the VA beampipe after 10 years of running and 5 days cooling. Calculation by M. Morev.



Dose rates in mSv/h from the VA beampipe after 10 years running and 5 days cooling.



- 33. The calorimeter is moved furher back.
- 34. The VA beampipe is removed by hand.





Dose rates in μ Sv/h from the pixel detector after a 100 day run and 5 days cooling. Calculation by M. Morev.



Dose rates in µSv/h from the VI beampipe. Calculation by M. Morev.



Dose rates in μ Sv/h from the Pixels+SCT+TRT+LAr cal.+VI beampipe after a 100 day run and 5 days cooling. Calculation by M. Morev.



Dose rates in μ Sv/h from the Pixels+SCT+TRT+LAr cal.+VI beampipe after 10 years of running and 5 days cooling. Calculation by M. Morev.



Dose rates in μ Sv/h from the Pixels+SCT+TRT+LAr cal.+VI beampipe after a 100 day run and 5 days cooling. Calculation by M. Morev.

