

Almost Final Model. All W-pwdr replaced with Lead, except of DS. High Dose Eq. at CPS exit.



Almost Final Model. Dose Eq. at various distances form the CPS Exit.

50

100

DoseEQ profile US CPS -70<z/cm<-60 dxdydz =0.05*0.05*0.2 |X/cm|<20 B=0.24/0.25/0.22T CPSKPTELL080822 23 1x10⁶ US CPS 0' 36 mrem/hr 100000 pSv/s 10000 1000 -200 -150 -100 -50 100 y/cm DoseEQ profile-0' 370<z/cm<400 dxdydz =0.05*0.05*0.2 |X/cm|<20 B=0.24/0.25/0.22T CPSKPTELL080822 23 1×10⁶ DS CPS 0' 100000 pSv/s 10000 1000 DoseEO profile -1' : 400<z/cm<430 dxdvdz =0.05*0.05*0.2 |X/cm|<20 B=0.24/0.25/0.22T CPSKPTELL080822 23 DoseEO profile-2*: 420<z/cm<450dxdvdz =0.05*0.05*0.2 |X/cm|<20 B=0.24/0.25/0.22T CPSKPTELL080822 23 1x10⁶ 100000 10000 Svis 10000 10000 DS CPS 2' DS CPS 1' 1000

-200

-150

-100

-50

y/cm

50

100

-200

-150

-100

-50

y/cm



Almost Final model+tail. After 1Hr Dose Eq. Effect of cylindrical Tail at CPS exit.



Effect of wider beam channel at CPS exit. Not final model. After 1Hr Dose Eq.



• Positive Effect of Channel transition needs to be dowblechecked with final model.

Effect of while beam channel at CI S exit. Final model. After The Dose Eq.



Dose Eq. at KPT. Dose 10^5 pSv/s = 36 mrem/hr.



After 1000Hr+1 Week Dose Eq KPSKPT-BOX-CM-CU 26



After 1000 Hr +1 Day Dose Eq KPSKPT-BOX-CM-CU 24



1000 Hr+1Month Dose Eq. [pSv/s] CPSKPTELL080822TRA 30



K-Long from KPT and on H2-Target at 12 GeV. To compare with 24 GeV. 10^6 primary electrons. Acceptance of H₂ target = 0.00125 sr.



THE END