

Risks to sPHENIX								
Sphenix installation delay due to TPOT	Agreed with BNL that TPOT must not delay sPHENIX: "If the components are not ready to meet sPHENIX schedule, including meeting milestones for design work, the TPOT will not be installed"							Low
Electronic noise from TPOT	Careful design of ground connections, decoupling from other detectors, EM shielding around FEE board, around detector							Low
Local temperature variations in TPC	Only FEE generate heats. Shielded by detector Need detailed FEE cooling studies, FEA							Low
Degradation of EMCAL performances due to additional material	Detector + FEE rad. length < 10% x_0 Need detailed study including support structure and cables Expected low impact wrt TPC support. Can control online by comparing regions of acceptance w, w/o TPOT							Low
FEE cooling water leaks	Water cooling system identical to TPC. Operated in sub atmospheric pressure							Low
Gas Flammability	Gaz mixture at the detector has low flammable gas fraction. Foresee sniffers around the TPOT detectors. Equip gas barrack to handle flammable gases, based on experience with PHENIX							Low
Data volume	Anticipated data volume is ~2% of that of the TPC							Low
TPOT failure, (detector, FEE)	No impact on current sPHENIX capabilities. Will make calibration of the TPC more difficult, take longer							Low