20190116 ESS-0513197

Risk analysis for common shielding project PDR

P=Probability (1-5) I=Impact (1-5)

Performance:

Risk	Р	I	Mitigation
Shielding is insufficient	4	1	Install additional shielding on outside, or create
			local unrestricted controlled areas
Shielding is incompatible with	2	4	Effective communication with instrument teams
guide design			

Cost

Risk	Р	I	Mitigation
Cost estimates are insufficient	2	3	Maximise standardisation
			Modular design which is well-adapted to serial
			production
			Ensure quick buy-in from instrument teams
			Effective competitive tendering
Shielding is insufficient	4	3	Neutronics calculations during detailed design
			phase, allowing some re-design if required
PSS turns out to be complex	2	3	Effective communication with PSS team
and expensive			

Schedule

Risk	Р	I	mitigation
Shielding may not be installed	1	4	Ensure quick buy-in from instruments
in time			Apply lessons learnt from bunker procurement

Operability

Risk	Р	I	mitigation
Shielding is insufficient	4	2	Neutronics calculations during detailed design
			phase, allowing some re-design if required
PSS is inconveniently slow and	2	3	Effective communication with PSS team
cumbersome			
Frequent access is needed to	2	3	Allocate gantry cranes to particular chopper pits
chopper pits			
Shielding is incompatible with	2	3	Effective communication with instrument teams
guide design			