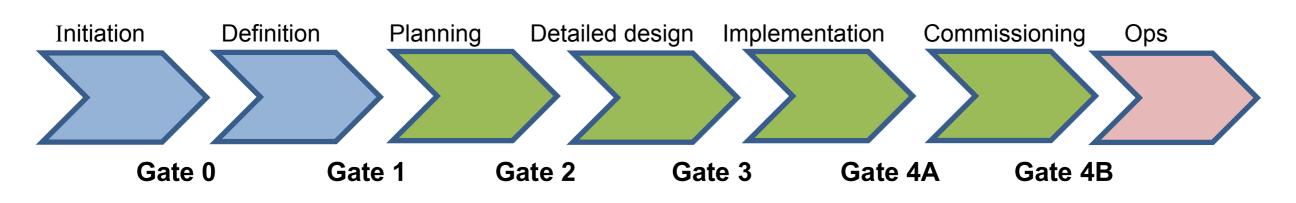
Reviews, milestones, and general schedule

Kate Pachal

Revales Report for Document-### P###



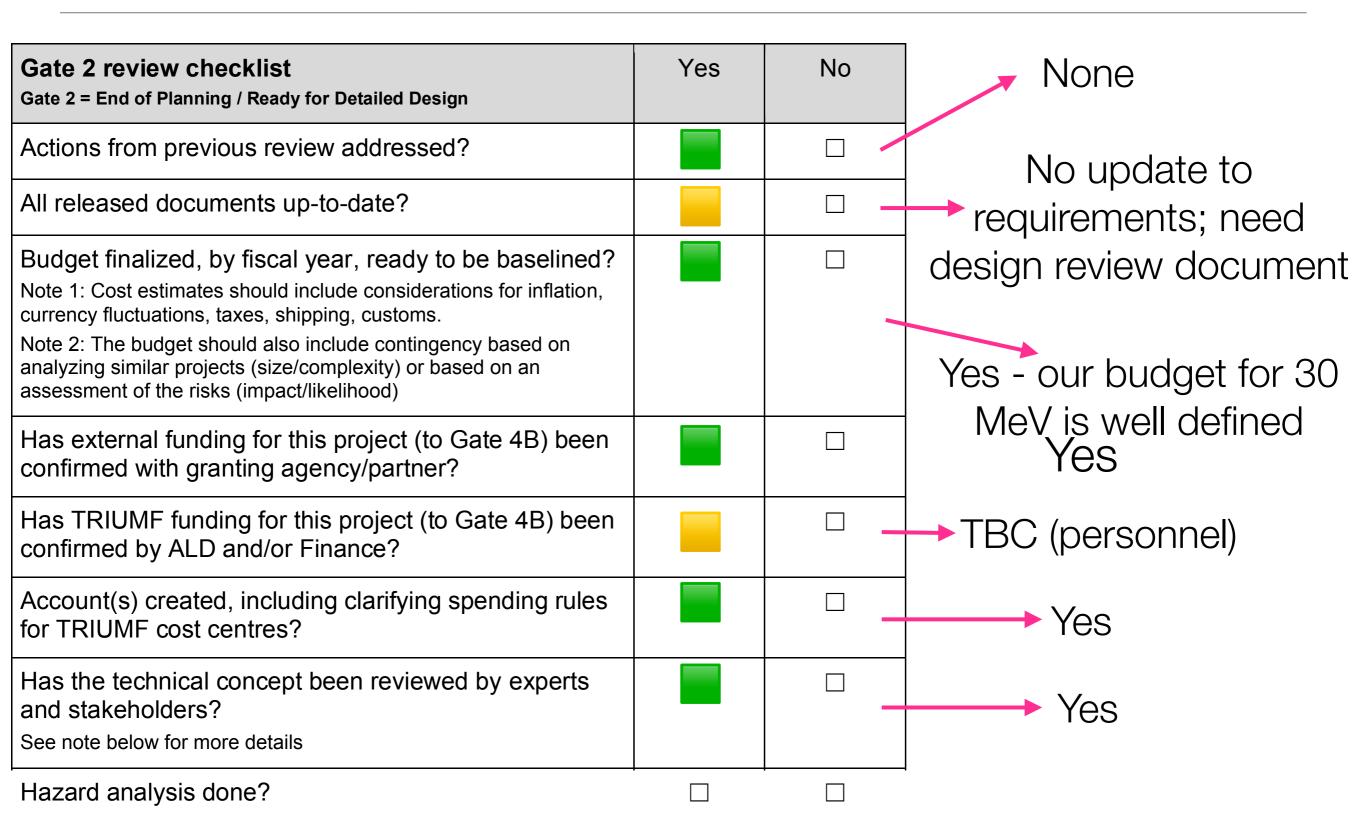
Projection tered "planning" stage (passed Gate 1) last spring

Gate (check more 0 1 1 3 4A 4B 4B than 6 and technically put anything into the beam line, we need to have compared)Gate 4A

Project Sponsor: Therefore we should get through 2 & 3 as soon as we can. These are not the External Report affect our schedule, but they will be part of it, and help guide Investigator (if applicable):

 Prevalenté Page Aving forward with 30 MeV experiment ONLY for now and will Leader): hold separate gate approvals for the 50 MeV upgrade if we get the funding **Project Manager (if** different than **Proponent**):

Gate 2 needs



confirmed with granting agency/partner? Has TRIUMF funding for this project (to Gate 4B) been \square \square confirmed by ALD and/or Finance? Yes - done Accountest created, including capitying spending rules for TRIDIME cost centres? \square \Box for Gate 1 Has the technical concept been reviewed by experts Can make the case this and stakeholders? See note below for more details isn't needed here; show Hazard analysis done? existing schedule Microsoft Project resource-loaded schedule, using TRIUMF project template and resource pool? Yes (I think) Note: For projects that are managed by a vendor (for example, a major construction project or a major software project), has the vendor produced an acceptable equivalent? Easy to get permission Is the schedule critical path understood? Do you have major items (>\$50k), with long lead time, Probably yes. Do not that should be procured before Gate 3? If so, do you have your project sponsor's authorization to do so? need to be signed off Does your project have one or engineering designs that \square at this point but need requires professional engineer sign-off, per TSOP-06? to ensure we know Will your project result in a change to TRIUMF's physical security? If so, have you notified Facilities? how to proceed Is there a risk to TRUMF's cyber-security? If so, have \square you notified IS&T? Only radiation safety changes; Rick is aware

No risk

Gate 3 needs

			Yes - done
Gate 3 review checklist	Yes	No	
Gate 3 = End of Detailed Design / Ready for Implementation			
Actions from previous review addressed?			Not done but easy
Did you receive a letter from the Director/CEO in support of your project, after your successful Gate 2?			$\langle \rangle$
Note: This is applicable for projects who received Gate 2 after November 2021			
All released documents up-to-date?			This is the hard one. I think we need
Commissioning plan <u>drafted?</u>			everything in the
Note: Different types of projects have different criteria and terminology for 'commissioning'			design ~finalised:
Drawings, diagrams or schematics released by ECO?			experiment,
All Requirements Specification documents released to			shielding,
Docushare?			integration with the
Schedule critical path understood?			•
		ļ	beamline,

Gate 3 needs

,	F	
		Yes - done
		Not done but easy
_		
Yes	No	
		These might also be required. Not a bad idea to work out controls
	1	
	Yes	Image: Constrained state stat

Gates summary

- Groups often do Gate 2 and 3 simultaneously I think the advantage is it means one less meeting to coordinate a review panel for, but we could also do them separately if we see an advantage there
- Nearly ready for Gate 2; I think we could do it anytime
- Not ready for Gate 3. Need to have engineering drawings finalised, plus probably a firmer plan for controls/DAQ. I think this includes shielding.
- Should we wait and do both together once we have the design finalised, or go ahead with Gate 2 now in order to keep the upcoming project needs more firmly in peoples' minds?

Other documentation and approvals we will need

- As discussed in yesterday's session, we need the shielding design and updated safety analysis report
- Following this, as soon as possible, we must start on the update of the CNSC license this will take an unknown amount of time
- Everyone at the lab whose assistance we will require needs to be made aware of our schedule
- Need Petr to keep us high in the priority ranking so we can actually access person power
- Determine with the lab if we will need non-TRIUMF collaboration help for installation, and what training they'll require

Overall schedule

А	В	С	D	E	F	G	Н	I	J	К	
	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	
Optics design note											
30 MeV program concept review											
Collimator design											
Collimator fabrication											
Shielding design											
Update the SAR											
Update CNSC license											
magnet procurement											
design chamber, stands, etc											
beamline comp. fabrication											
test new taget chamber											
installation											
commissioning											
Beam test											

- We are slipping. TRIUMF is responsible for collimator design and shielding design bottleneck is person power but we are doing our best
- Design for chamber and stands etc under way, not concerned there. Need to finalise angles, but given in-house construction of chamber, not nearly as big a rush.
- Magnet procurement: is bottleneck knowing that lowered acceptance is OK? If so we need to converge on that as fast as possible (or decide we will simply have to live with whatever it is). Other bottlenecks?

Milestones (reviews + large timeline items)

- In a rough guess of order:
 - Order magnets
 - Complete collimator requirements and start design
 - Gate 2
 - Complete shielding design and finalise experiment design. Start on CNSC license update
 - Gate 3
 - Construct everything, etc
 - Gate 4a -> ready to begin installation

Discussion?