

FSCF Schedule Milestones

	as outcome of	
	30% final design	for planning
Completion of Pre-excavation	Nov 2020	
Start of Excavation	Nov 2020	
AUP for North Cavern and CUC	Mar 2023	Oct 2022
AUP for South Cavern	Dec 2023	Jul 2023

*AUP = Acceptance for Use and Possession

- Continued evolution of the design and working through details of how work will be executed has revealed some challenges with available ventilation that potentially affects pace of excavation.
- Workshop last week at SURF further evaluated what can be done – work in progress

Design and possible changes to durations

- Continued evolution of design and working through details of how work will be executed with CM/GC has revealed some challenges with available ventilation that potentially affects pace of excavation.
- Workshop last week at SURF further evaluated how to address concerns – work in progress
- Looking at opportunities to reduce the time to cavern occupancy
 - Little opportunity to reduce Pre-excavation duration (23 months)
 - Other ideas suggested by CM/GC with 60% final design are under evaluation with them right now, including possibility of moving some early excavation scope (e.g., blast doors) to pre-excavation scope and finding ways to do things more efficiently. Expecting response in several weeks.

Status of VE for rock removal management

- Evaluating value engineering idea to change from moving rock on surface to Open Cut, to beneficial use for a new road on SURF site. Main considerations to make decision – deadline is by June before conveyor fabrication starts
 - 30% design just received – technical feasibility in review
 - Associated cost/schedule due at end of January – can't be more expensive or take longer overall
 - Must go through formal supplemental NEPA process for environmental review & DOE approval – in early stages, but believe can get Finding of No Significant Impact by end of June
- For schedule, could eliminate conveyor and thus remove that from Pre-excavation critical path, but Ross shaft scope is only weeks behind that, so right now, not a lot of time savings.