



PM meeting (mainly the slides from the OHEP call)

3/23/2023

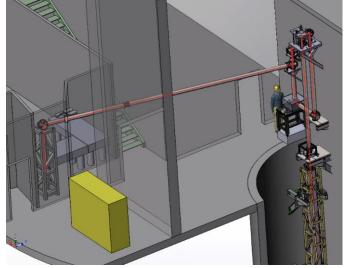
Updates since last meeting

- Laser lab PO is assigned
- Other updates from Linda or Mandy ...
- Status reporting nearly in
 - Request went out more than a week ago
 - Will be reported against our Dec-2022 schedule, including logic changes
- Expert help assigned to work with us (Peter Wilson)
 - Started regular meeting, going through EVM and reporting, BOE management, contingency, how to reduce risk in commissioning phase with testing, intermediate milestones
 - Review of ongoing task list to keep on target for completing baseline and moving through the "PD" process



Schedule work underway

- Major focus has been working through a final review and update to our installation schedule before freezing everything by the end of the month.
- Activities and relationships easier to understand (critical path example next slide)
- Better partitioning of installation work between laser lab, ground level, and in (or above) shaft
- This week:
 - Resources are being reviewed
 - Expect status reporting for Jan/Feb 2023 complete and compared against Dec 2022 schedule





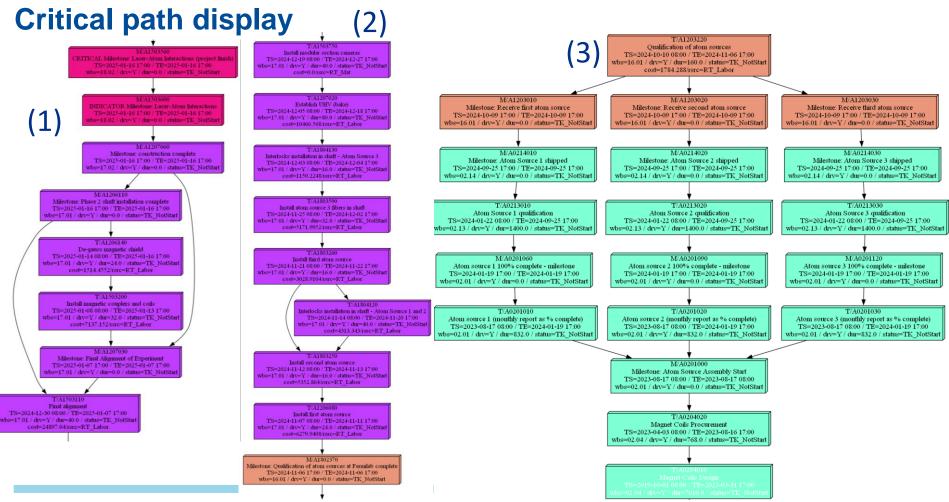
Latest estimate of completion

- Last column includes latest updates to installation sequence.
- Completion date of 1/16/2025 is still in our estimated range of first half of FY25
- Awaiting current status reporting

nple	tion			including
•		Corrected	First review	revised in- shaft
		August 2022		installation
	Milestone comparisons for various schedules	U		
	Analysis date	update 12/16/2022	update 1/25/2023	sequencing 3/17/2023
Activity ID	Critical milestones	12/10/2022	1/25/2025	5/17/2025
ACTIVITY ID	Critical milestones			
A1503500	Civil design complete	4/12/2023	6/5/2023	6/5/2023
A1503520	Shaft modular section installation complete	5/15/2024	9/12/2024	9/5/2024
A1503530	Two atom sources installed	6/26/2024	11/13/2024	11/13/2024
A1503540	First laser beam	7/15/2024	12/3/2024	10/16/2024
A1803240	First atoms	7/17/2024	12/5/2024	12/18/2024
A1503560	Laser-atom interactions	8/7/2024	12/30/2024	1/16/2025
	Other milestones			
A1503280	Adjustable Supports designs complete - milestone	12/29/2022	5/23/2023	5/23/2023
A1503760	Milestone - laser room construction complete	2/27/2023	6/6/2023	12/7/2023
A1503220	Installation of LTS complete - milestone	11/30/2023	2/1/2024	9/26/2024
A1503770	Milestone - Inst of structural systems (shaft) complete	2/20/2024	5/1/2024	6/6/2024
A1503780	Milestone - Assembly of 17 modular sections complete	5/13/2024	9/10/2024	8/19/2024
A1206100	Phase 1 shaft installation complete - milestone	5/15/2024	9/12/2024	9/5/2024
A1206110	Phase 2 shaft installation complete - milestone	7/12/2024	12/2/2024	1/16/2025
A1207060	Construction complete - milestone	8/7/2024	12/30/2024	<mark>1/16/2025</mark>



Dec 2022



Contingency

- Risks moving to lab-wide risk registry
 - In the data entry phase
 - Goal is to be finished by end of this week
- BOE update
 - Estimate Uncertainties now applied to all activities in BOE
 - Integrating with P6
 - Meetings in progress to check resources, which will feed back to the schedule
 - Utilize the BCR process, keep costs down as much as possible

× 1	Edit	RI-ID	Title	Project	Summary	Risk Type	Risk Area (RBS)	Owner	WBS / Operations Activity	IPPM Lab Activity
-		RT-1903- 01-001	Title goes here	Magis- 100		Threat			1903.01 Magis-100 Project Management, Safety, & Quality	LA-04160: MAGIS- 100 Project
1		RT-1903- 02-001	Title goes here	Magis- 100		Threat			1903.02 Strontium Atom Sources	LA-04160: MAGIS- 100 Project
1		RT-1903- 03-001	Title goes here	Magis- 100		Threat			1903.03 Interferometry Laser Systems	LA-04160: MAGIS- 100 Project
		RT-1903- 04-001	Title goes here	Magis- 100		Threat			1903.04 Frequency Comb	LA-04160: MAGIS- 100 Project
		RT-1903- 05-001	Title goes here	Magis- 100		Threat			1903.05 Atom Source Connection Node	LA-04160: MAGIS- 100 Project
1		RT-1903- 06-001	Title goes here	Magis- 100		Threat			1903.06 Magnetic Field Systems	LA-04160: MAGIS- 100 Project
1		RT-1903- 07-001	Title goes here	Magis- 100		Threat			1903.07 Lower optics system	LA-04160: MAGIS- 100 Project
		RT-1903- 08-001	In-kind contributions delayed (UK)	Magis- 100	If UK In-kind contributions are delayed long enough they can impact critical path.	Threat	External Risk / Collaborators		1903.08 Camera System	LA-04160: MAGIS- 100 Project
1		RT-1903- 09-001	Title goes here	Magis- 100		Threat			1903.09 Vacuum System Components	LA-04160: MAGIS- 100 Project
6	•	RT-1903- 10-001	Title goes here	Magis- 100		Threat			1903.10 DAQ Computing and Front End	LA-04160: MAGIS- 100 Project
1		RT-1903- 11-001	Title goes here	Magis- 100		Threat			1903.11 Structural Systems	LA-04160: MAGIS- 100 Project
		RT-1903-	Title ones here	Magis-		Threat			1003 11 Structural Systems	LA-04160: MAGIS-



Steps to complete baselining

- 1. Complete schedule updates with latest reporting
- 2. Check resource levels
- 3. Finalize risk analysis
- 4. Review and update MOA
- 5. Generate funding profile
- 6. Update PMP

- Still on target to complete first five items by end of March
- Plan to settle on quarterly update and reporting after baselining



Punch list

- Still expect to complete core recommendations for establishing baseline by end of March
- Most effort has been going towards freezing baseline schedule
 - This cannot be completed until latest reporting is in and processed
 - Final set of changes are in for installation scheduling
- PM10 is moved out to the end of March alongside the freeze

OHEP Call

3/20/2023

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	Recommendation		Promised Expected			
	(if applicable)	Item	Date	Date	% Done	Comment and Status
	2020 M1	Funding Guidance	10/1/2022		65%	Profile studies. In discussion with OHEP.
•	2020 M8	PMP	7/15/2022	5/17/2023	75%	Needs update after new 2023 baseline established.
te	2020 M4	MOA	8/1/2022	5/17/2023	50%	Sent for signatures.
S	2020 M6	I-CRADA		3/30/2023	90%	Proceeding with new system. Data entered.
		Freeze basline schedule		3/15/2023	50%	Process Dec status update first, then final schedule vetting and
						resource leveling (has been 1 year since last leveled).
	2022 PM10	Milestone table		3/15/2023		Draft list in Dec 2022. Modeled after SBN style.
	2022 CS6	Update estimate uncertainty	8/1/2022	3/30/2023		Updated affected BOE's. Remaining line by line update to other
						BOE's to be done in 2023. Update to P6 reports needed.
		Procurement Table		3/30/2023	75%	Updated to match schedule 1/13/23. Awaiting Dec status update,
						then ready to put into ALP tool. Priority given to laser room.
	2022 ESHQ2	High level HA report	6/1/2023	5/17/2023		By next director's review
g	2022 ESHQ3	QA Plan	10/1/2022	5/17/2023		Also 2020 ESHQ25. Testing with stakeholders. Doc done.
9	2022 CS7	Variance analysis reporting		3/30/2023		Reports are ready to implement after Dec status update. Follow SBN?
						Think about using spreadsheet. Quarterly may be enough. Talk to
						Peter Wilson.
	2022 CS8	EAC and ETC tracking	12/15/2022	3/30/2023	50%	Reports are ready to implement after Dec status update. Follow SBN?
ŀ						Might be to track convergence now (ealier than later)
	2022 PM9	Tailored status approach	12/15/2022		70%	Reports are ready to implement after Dec status update.
	2022 PM12	2020 recommentations				Duplicate with individual recommendations in this list.
	2020 M7	Decision Process	8/1/2022		50%	Document needed for succesful method previously demonstrated.
						Make sure this is written down and acknowledgements
	2020 AI14	Interconnections	8/1/2022		50%	Collaboration-wide edits to interface table in progress July-Aug 2022
	2020 AI18	Shipping Risk	Ongoing		30%	
	2020 ESHQ29	Thermal Loads	9/1/2022			Awaiting bake of Stanford prototype: measure then run analysis
	2020 M2	Project Support	8/1/2022	9/9/2022	100%	Duplicate - Deputy PM search.
	2022 PM11	Deputy PM		9/9/2022	100%	Done.
)	2022 CS4	Align cost codes to WBS		10/15/2022	100%	Implemented.
	2022 CS5	BOE updates	8/1/2022	12/1/2022	100%	Done. Duplicates 2020 TS11
		Schedule update after CS5		1/11/2023	100%	Done. Links to CS5
		(and partial CS6)				
	2020 ESHQ24	QA Needs	7/15/2022			Done. Engaged with Fermilab ES&H, QA plan being tested with
						collaborators.
	2022 ESHQ1	ESH Project Support Group	9/1/2022		100%	First meeting end of June 2022. Likely done.

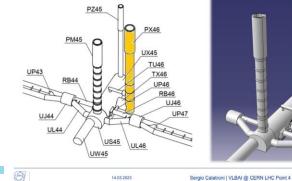


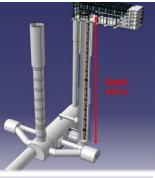
MIGA galleries at LSBB





Selected location: PX46





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