pfRICH updates

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13 Jan 2025

End Ring #4 manufacturing updates

End Ring #4 assembled and ready for machining CMSC

End Ring #1 and #2 in inspection at Purdue CMSC

- 4th end ring is assembled as a stock
  - Layup for 4 quarters done
  - Stock/bonding machining for 4 quarters done
  - Stock assembled for 4th end ring
- Machining scheduling meeting this week.
- Expected lead time – first half of Feb

pfRICH mirror updates

- Meeting with Preet and Kong at 2pm on Monday 13th Jan to discuss next steps.

- Tool for curved mirror substrate design completed. Next steps –
  - Manufacturing simulation
    - ETA 2 weeks.

3. Mirror substrate manufacturing	
started ✓ Finalize design	
• Start tool manufacturing simulations for outer mirror	2 weeks
• Tool machining for outer mirror	1 week
• Outer mirror prototyping	3 weeks for FEA (in parallel)
• Co-bonding for outer mirror	~2 weeks
• Inner mirror (repeat – can be in parallel with 2 week offset/delay start from outer mirror work)	~1 week ~1 week

Summary of Activities at Purdue on pfRICH

#	Sub task	Next steps / on-going activities
1.	End Ring (#4)	a. Machining end ring with procedure listed last week
		b. Metrology and shipping to SBU
2.	Sensor Plane	a. FEA simulation for new web/flange design
		b. Sealing test for picture frame (stand off design change)
		c. Prototyping of full plane
3.	Aerogel Plane	a. Tests for flatness of large scale layups / blanks for machining
4.	Inner and Outer Mirror	a. Procedure for tool design is ready – waiting on final go ahead after the evaporation tests on curved substrates