List of photo-detectors for one squeezer unit (no filter cavity)

IN AIR:

- FSS1 PD Qty: 1 Newfocus 1611 (commercial): https://www.newport.com/p/1611FS-AC
- **DC monitoring diodes** Qty: 6 Commercial - Thorlabs SM1PD1A or others (similar to ALS monitoring: https://dcc.ligo.org/LIGO-E1200938)
- SHG PDH diode Qty: 1
 LSC RF PD style @ 35MHz, 532nm
 → commercial alternative might be feasible (1811)
- WFS, 42.4 MHz Qty: 2 Same design as for 45 MHz aLIGO WFSs.
- 1 homodyne detector @ 3.1 MHz Qty: 1
 Diagnostic diode, prototype built (see https://dcc.ligo.org/T1500040-v1)

IN VACUUM:

- In-vacuum DC diode for CLF monitor Qty: 1
 In-vacuum DC diode for monitoring @ 1064nm CLF beam
 Typical power: ~ 1 uW, max 50 mW
 (need to be able to handle SEED power level)
- In-vacuum DC diode for GREEN PUMP monitor Qty: 1 In-vacuum DC diode for monitoring @ 532nm green pump beam Typical power: 20 uW, need to be able to handle 50 mW green
- Coherent locking field frequency is now set to 3.1 MHz because of current OMC PDs response (see figure 6 in https://dcc.ligo.org/DocDB/0121/E1500358/002/E1500358-v2.pdf); if redesign is done we can relax requirement on CLF frequency

PREFERIBLY IN VACUUM:

- **OPO REFL diode** (preferably in-vac) Qty: 1 LSC RFD PD style, 85 MHz, 532nm
- **CLF 2f diode** (preferably in-vac) Qty: 1 LSC RF PD style, 6.2 MHz, 1064nm