

Tasks

Name	Begin date	End date	Duration
In-air SQZ tables procurement	2/1/17	10/13/17	183
Laser/optics/opto-mech	2/16/17	8/2/17	120
Fabrice in-air fibers on site (for 532nm and 1064nm CLF/Seed)	7/28/17	7/28/17	0
Electronics	2/1/17	10/13/17	183
RF/slow control	2/16/17	8/1/17	119
in-air cables on site	10/2/17	10/2/17	1
CIT electr/photodet	2/1/17	10/13/17	183
VOPO SUS coil-drivers (already on site, test-end)	2/1/17	6/30/17	108
HAM5 and HAM6 tip-tilt coil-drivers on site	10/16/17	10/16/17	0
In-air photodetectors for SQZT6 on site	10/16/17	10/16/17	0
VOPO cavity and HAM6 in-vacuum cables on site	10/16/17	10/16/17	0
Squeezer assembly in room near LVEA entrance	4/17/17	9/29/17	120
ISCT6 moves to LVEA, laser hazard area around ISCT6	10/9/17	10/9/17	0
SQZ work in LVEA	10/2/17	10/27/17	20
<i>Requires laser safe area around tables</i>			
Electronics work	10/2/17	10/27/17	20
<i>Some work can start during O2 Tuesday maintainance/ run measurement close-out</i>			
install racks, power supplies and RF distribution	10/2/17	10/13/17	10
install chassis	10/2/17	10/13/17	10
pull cables for controls, short-run RF cables	10/2/17	10/13/17	10
slow control and DAQ checkout	10/16/17	10/20/17	5
install electronics for HAM5 and HAM6 tip-tilt	10/23/17	10/27/17	5
move VOPO SUS electronics from test-end to LVEA	10/23/17	10/27/17	5
Run 100m long fibers from PSL	10/2/17	10/6/17	5
Configure SQZ with electronics (SHG, AOMs, diodes, TTFSS)	10/16/17	10/27/17	10
Lock SHG	10/16/17	10/20/17	5
If possible, test PSL fibers and TTFSS lock (when PSL and TTFSS available)	10/23/17	10/27/17	5

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Squeezer table assembly ready	10/30/17	10/30/17	0
In-vacuum components	2/20/17	11/6/17	186
VOPO cavity	3/6/17	10/3/17	152
FDR #2 documents ready	3/6/17	3/6/17	0
FDR #2 review completed	3/21/17	3/21/17	0
Procurement (Limerick)	4/25/17	6/9/17	34
Cleaning @ LLO	6/20/17	8/21/17	45
Assembly and testing @ MIT	8/22/17	10/2/17	30
VOPO cavity ready to ship to LLO	10/4/17	10/4/17	0
Fiber patch cords and feedthroughs	9/27/17	10/19/17	17
Fiber feedthroughs C&B, leak check at MIT	9/27/17	10/13/17	13
Fibers on site	10/13/17	10/13/17	0
Feedthroughs on site	10/20/17	10/20/17	0
VOPO Suspension	2/20/17	10/23/17	176
Procurement and cleaning	2/20/17	6/2/17	75
Assembly @LHO	6/5/17	6/23/17	15
Finish assembly @ LLO	7/10/17	7/21/17	10
Basic TFs meas and damping loops - Test stand	7/24/17	9/13/17	38
Class B components for VOPO installation in HAM6 ready	10/23/17	10/23/17	0
HAM6 ARM ready	10/23/17	10/23/17	1
VOPO injection platform (VIP)	7/24/17	11/6/17	76
Component inspection, testing, cleaning	7/24/17	10/13/17	60
<i>Still to C&B:</i>			
* diodes			
* diode enclosures			
* screws for diode			
* collimator adapters			
VOPO cavity on site	10/11/17	10/11/17	0
VOPO integration on VIP	10/24/17	11/6/17	10
<i>Including re-positioning of OPO crystal and check of OPO escape efficiency</i>			

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Cable and stages check	10/24/17	10/25/17	2
VIP ready to move	10/25/17	10/25/17	0
HAM6 tip-tilt assembly	10/2/17	10/6/17	5
HAM6 Feed-throughs installation (C1 and D4)	10/23/17	10/27/17	5
Integration	10/30/17	2/28/18	88
VOPO installation in HAM6	10/30/17	11/10/17	10
VOPO lock in air	11/13/17	12/13/17	23
Finish assembly SQZT6	11/13/17	11/24/17	10
Lock/OPO CLF	11/27/17	12/8/17	10
ISCT6/SQZT6 Slow control interface, DAQ models, basic auto-locker	11/13/17	12/13/17	23
Alignment/mode match check to OMC single bounce (need CLF/SEED beam)	12/14/17	12/21/17	6
In-vacuum measurements during full IFO commissioning break (TBD)	12/22/17	2/28/18	49
Standalone SQZ testing / commissioning with full IFO (TBD)	3/1/18	3/1/18	0
<i>This part is to be decided depending on IFO configuration</i>			

Gantt Chart

