

Preparation for joining O3 through Engineering Runs

target: +
done: 0

Over all

task name	description/comments	Responsible Person	6/8	7/13	registered date	last update
Shift Manual		Miyakawa			2019/5/28	2019/5/28
Shift assignment					2019/5/28	2019/5/28
Log book		Miyakawa	o		2019/5/28	2019/6/6
Observation log system		Oshino			2019/5/28	2019/5/28
Definition of observation	Observation intent (GRD) switch and Observing flag	Yamamoto		+	2019/6/5	2019/6/5

Commissioning

task name	description/comments	Responsible Person	6/8	7/13	registered date	last update
Arm cavity mass lock					2019/6/5	2019/6/5
DRMI lock					2019/6/5	2019/6/5
DRFPMI lock					2019/6/5	2019/6/5
ASC for DRFPMI					2019/6/5	2019/6/5
(Semi-)automated initial alignment procedure					2019/6/5	2019/6/5
Locking automation / automatic lock-loss detection					2019/6/5	2019/6/5
Noise budget					2019/6/5	2019/6/5
Increase power to ~ 10Watt					2019/6/5	2019/6/5
10MPc sensitivity					2019/6/5	2019/6/5

MIF

task name	description/comments	Responsible Person	6/8	7/13	registered date	last update
Main interferometer				+	2019/5/29	2019/5/29
Analog and digital circuits to control the interferometer				+	2019/5/29	2019/5/29
Output optical tables and covers				+	2019/5/29	2019/5/29
Beam shutters around OMC					2019/5/29	2019/5/29
High power beam dump at REFL table					2019/5/29	2019/5/29
Correct OSTM					2019/5/29	2019/5/29
OMMT1 and OMMT2 safety guard					2019/5/29	2019/5/29
KOACH, FFU, and AC operation					2019/6/10	2019/6/10
IMC ASC modification					2019/6/10	2019/6/10

IOO

task name	description/comments	Responsible Person	6/8	7/13	registered date	last update
Making the shift manual				+	2019/5/26	2019/5/26
Modification of the guardian of IO				+	2019/5/26	2019/5/26
IMC commissioning (noise budget and noise hunting)					2019/5/26	2019/5/26
OMC commissioning					2019/5/26	2019/5/26
Long term stability check of the HPIO (~20W at the output of the IMC)					2019/5/26	2019/5/26
prepare the laser status panel (MEDM)				+	2019/5/26	2019/5/26
install the emergency button				+	2019/5/26	2019/5/26
install the temperature monitor for the high power beam dump at PRM				+	2019/5/26	2019/5/26

OMC

task name	description/comments	Responsible Person	6/8	7/13	registered date	last update
manufacture a spare pd mount to train a pd replacement					2019/5/27	2019/5/27
replace qpd drivers					2019/5/27	2019/5/27
replace pzt drivers					2019/5/27	2019/5/27
perform an analog beam shutter					2019/5/27	2019/5/27
implement digital ostrm miscentering for slow beam shut					2019/5/27	2019/5/27
lock the omc with a decent amount of dc beam from mif					2019/5/27	2019/5/27
measure the omc finesse					2019/5/27	2019/5/27
perform an alignment control with qpds					2019/5/27	2019/5/27
perform an alignment control with dc pds					2019/5/27	2019/5/27
lock the omc with a central michelson or drmi					2019/5/27	2019/5/27
perform the alignment controls					2019/5/27	2019/5/27
measure and reduce noise					2019/5/27	2019/5/27
put more beam dumps if necessary					2019/5/27	2019/5/27
lock the mi/drmi/fpmi with a signal from omc					2019/5/27	2019/5/27
operate the omc in vacuum					2019/5/27	2019/5/27

VIS

task name	description/comments	Responsible Person	6/8	7/13	registered date	last update
Hierarchical control of Type-A (with CRY)				+	2019/5/27	2019/5/27
Improved watchdog					2019/5/27	2019/5/27
IP control with/without inertial damping for Type-A				+	2019/5/27	2019/5/27
IP control with/without inertial damping for Type-B				+	2019/5/27	2019/5/27
Guardian					2019/5/27	2019/5/27
Status monitor screens					2019/5/27	2019/5/27

Operation manuals						2019/5/27	2019/5/27
L2P diagonalization for all the suspensions						2019/5/27	2019/5/27
Automatic off-load system						2019/5/27	2019/5/27
AEL							
task name	description/comments	Responsible Person	6/8	7/13	registered date	last update	
Switching the +/-18V power line for the racks to the newly laid cables. GND check of the electronics. Especially, check if the GND is properly connected to the rack.	However, we should not touch the electronics as long as they are working fine.				+	2019/5/27	2019/5/27
						2019/5/27	2019/5/27
DGS							
task name	description/comments	Responsible Person	6/8	7/13	registered date	last update	
Replace RTFE to faster one					+	+	2019/5/26 2019/7/8
Replace power supply of IO chassis from ATX AC-DC to stable DC-DC					+	+	2019/5/26 2019/7/8
Add BIO, ADC, DAC cards to IO chassis					o		2019/5/26 2019/7/8
Recording time of one frame file change to 64 seconds							2019/5/26 2019/5/26
Add 20TB storage to frame writer					o		2019/5/26 2019/7/8
Fix daq trouble on k1dc0							2019/7/8 2019/7/8
CAL							
task name	description/comments	Responsible Person	6/8	7/13	registered date	last update	
Provide C0#	Online h(t)				+		2019/5/29 2019/5/29
Provide C1#	Low latency h(t)						2019/5/29 2019/5/29
Provide C2#	Offline h(t)						2019/5/29 2019/5/29
Online model (IMC, Y-arm, X-arm, MICH, PRCL, SRCL, DARM, Pcal, FSM)					+		2019/5/29 2019/5/29
Low latency model (IMC, DARM, Pcal, FSM)							2019/5/29 2019/5/29
Offline model (DARM, Pcal, FSM)							2019/5/29 2019/5/29
Injection test (Unexpected time delay, tool development)							2019/5/29 2019/5/29
Measurement of Actuator response under the cryogenic condition							2019/5/29 2019/5/29
I/O TF measurement (Automatic measurement)							2019/5/29 2019/5/29
Actuator TF measurement (Automatic measurement)							2019/5/29 2019/5/29
Development of error estimation code							2019/5/29 2019/5/29
DARM model (A and C-1 filters)							2019/5/29 2019/5/29
Preparing the Offline server environment							2019/5/29 2019/5/29
Preparing the Event-focused analysis environment							2019/5/29 2019/5/29
DMG							
task name	description/comments	Responsible Person	6/8	7/13	registered date	last update	
Bulk raw data transfer from Kamioka to Kashiwa main storage					+		2019/5/30 2019/5/30
Bulk raw data transfer to Tier-1					+		2019/5/30 2019/5/30
Low latency data transfer from Kamioka (CAL subsystem) to Kashiwa					+		2019/5/30 2019/5/30
Low latency data exchange with LV					+		2019/5/30 2019/5/30
Dump/Merge low latency data to files at Kashiwa							2019/5/30 2019/5/30
Toss low latency data to analysis pipelines							2019/5/30 2019/5/30
Online proc data file (generated by CAL, C1#, 4096sec) transfer from Kamioka to Kashiwa							2019/5/30 2019/5/30
Proc data file (C1#) exchange with LV with latency of hours							2019/5/30 2019/5/30
Software for Tier-2 data transfer							2019/5/30 2019/5/30
Offline proc.data C2# transfer to / store on main storage							2019/5/30 2019/5/30
Prepare the DMG operation manual							2019/5/30 2019/5/30
Operator assign							2019/5/30 2019/5/30
DET							
task name	description/comments	Responsible Person	6/8	7/13	registered date	last update	
Glitch trigger generation for main IFO signal					+		2019/5/26 2019/5/26
Glitch visualization for main IFO signal					+		2019/5/26 2019/5/26
Coincidence search with environmental channels					+		2019/5/26 2019/5/26
Preparing Glitch database							2019/5/26 2019/5/26
Line visualization for main IFO signal					+		2019/5/26 2019/5/26
Investigating peak frequency and source of noise					+		2019/5/26 2019/5/26
Preparing Line database							2019/5/26 2019/5/26
Providing online data quality flag							2019/5/26 2019/5/26
Providing data quality category							2019/5/26 2019/5/26
Merging data quality category with proc. data							2019/5/26 2019/5/26
Providing data quality report (DQR)							2019/5/26 2019/5/26
Sharing DQR with LV							2019/5/26 2019/5/26
Preparing daily(?) check items							2019/5/30 2019/5/30
Preparing a manual of DetChar tools							2019/5/30 2019/5/30
Preparing a trouble shooting manual							2019/5/30 2019/5/30
PEM							
task name	description/comments	Responsible Person	6/8	7/13	registered date	last update	
Installation of the more PEMs					+		2019/5/26 2019/5/26
KAGRA environmental characterizations	For suspension, cryogenic, optical tables, underground				+		2019/5/26 2019/5/26
Noise evaluation by PEM injection							2019/5/26 2019/5/26
Data/Detector quality flag from PEM							2019/5/26 2019/5/26
Coherent analysis between PEMs and GW signals					+		2019/5/26 2019/5/26

MIR							
task name	description/comments	Responsible Person	6/8	7/13	registered date	last update	
OSTM procurement		Matteo		+	2019/6/3	2019/6/3	
"Large optics" database		Matteo			2019/6/3	2019/6/3	
FCL							
task name	description/comments	Responsible Person	6/8	7/13	registered date	last update	
Environmental simulation with minimum FCL stuff operation for Observation Mode	Minimize FFU operation, Turn off unnecessary instruments, Find optimum operation of air conditioners	Miyoki		+	2019/6/6	2019/6/6	
Request for task							
task name	description/comments	Requester/Responder	6/8	7/13	registered date	last update	
Real time camera		COM/Yokozawa			2019/6/8	2019/6/8	
DAQ Guardian		DGS/DGS		+	2019/6/8	2019/6/8	