Mon. 14 Oct. 2020

YYYY-MM-DD	09:30~20:00 With 1hr lunch break	Session Leaders	Physics Operators (CPO/APO)
2020-			

Proposed experiments

Proposal number*	Title	First author

* The 'registered number' is the number that was given to your submission on the web-board. You can find and check it from the web-page (https://kstar.nfri.re.kr)

Resources

Parameter	Default values or ranges		Use	Excessive values or ranges
Ip	≤ 700 kA Clockwise from the top (Co-NBI) Ip ramp ≤ 0.2 MA/s after t > 1 sec		▣	☐ Ip > 800 kA : Max = ( ) kA ☐ Counter-clockwise (Counter-NBI) ☐ Ip ramp > 0.2 MA/s after t > 1 sec : Max = ( ) MA/s
Pulse	t_{pulse} ≤ 20 sec at Ip ≥ 100 kA			☐ t_{pulse} > 20 sec : Max = ( ) sec ☐ Other request : ( )
TF	≤ 3 T (default: 2.0 T)		▣	☐ > 3 T : Max = (3.0) T
IVCC-IPS	Select scenario number of patch panel		▣	IVCC patch-panel scenario = (MXD-CMB)
IVCP	LHe (top/bot.operation)		▣	Normal operation as default No IVCP, please make open blank as ☐
Fueling	D2	Main fueling (G port) Divertor fueling (D port) Density control fueling(J port) LHCD Fueling (P port)	▣ ☐ ☐ ☐	PCS valve name : GAS1 PCS valve name : PVD PCS valve name : GAS2
	Ar	Diagnostic (GAS3)	☐	PCS valve name: GAS3
	impurity (D port)	N2 Kr Ne	☐ ☐ ☐	
	SMBI	SMBI – 10 bar, room temp. SMBI – 10 bar, 105K Custom	☐ ☐ ☐	Gas species: D2 Gas species: D2 Gas species: ( ), temperature : ( ) K
	MGI	D2 40 bar Impurity	☐ ☐	Gas species: ( )
Heating & CD	EC1	170 GHz : Unavailable		
	EC2	Choose frequency : 105 GHz 140 GHz	☐ ☐	
	EC3	Choose frequency : 105 GHz 140 GHz	☐ ☐	
	EC4	Unavailable		
	ICRF	30 MHz, > 0.5 MW, 10 sec	☐	☐ Change strap phase, mainly 180°: ( ) °
	NB1A NB1B NB1C	≤ 95 keV (1.6 MW) ≤ 90 keV (1.5 MW) ≤ 90 keV (1.5 MW)	☐ ▣ ☐	NBI P_total MAX = ( ) MW ☐ Operation under shine-through conditions: ne <1.5e19 m-3 : Min = ( ) e19 m-3
	NB2A NB2B NB2C	Unavailable ≤ 70 keV (0.8 MW) Unavailable	☐	
	LHCD	5 GHz, Max 0.3 MW, 2 sec	☐	
Wall condition	GDC (He)	Morning (before 8AM) Evening (after 6PM) Other hours	▣ ▣ ☐	☐ Other than He : ( ) ☐ Other than He : ( ) ☐ Start : ( ) for ( ) hrs
	Boronization		▣	☐ Start : ( ) for ( ) hrs
	ICWC		☐	☐ Start : ( ) for ( ) hrs
Others				☐ Check if you have other requests
				☐ Check if you have other requests

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Diagnostics (daily available*)

Name	Use	Contact Person	Remark
MD (Rogowskii coil, Flux loop, Magnetic field probe, Lock mode coil / Saddle loop, Diamagnetic loop, Mirnov coil, Halo current monitor)	▣	Jun-Gyo Bak (jgbak@nfri.re.kr)	Need request for high time resolution
Fixed probe array	▣		Measurement of Ion saturation current (with probe bias) : 1st half during a campaign Measurement of SOL current (without probe bias) : 2nd half during a campaign
Visible spectroscopy (H-alpha, Filterscope, Survey spec, Bremss. array)	▣	Juhyeok Jang (jjh4368@nfri.re.kr) Dongcheol Seo (dcseo@nfri.re.kr)	Need request for high time resolution
Thomson scattering	▣	Jong-Ha Lee (jhlee@nfri.re.kr)	
ECE radiometer	▣	Kyu-Dong Lee (kdlee@nfri.re.kr)	Need request for high time resolution
Interferometer	▣	June woo Juhn (jwjuhn@nfri.re.kr)	
Hard X-ray monitor	▣	Hee-Soo Kim (hskim21@nfri.re.kr)	

Diagnostics (on request)

Name	Use	Consult	Contact Person	Remark
Edge reflectometer	☐	☐	Seong-Heon Seo (shseo@nfri.re.kr)	Need request for measurement time setting
CES	☐	☐	Won-Ha Ko (whko@nfri.re.kr) Hyungho Lee (jdfm@nfri.re.kr)	NBI modulation required
MSE	☐	☐	Jinseok Ko (jinseok@nfri.re.kr)	NBI power setting required
BES	☐	☐	Yong Un Nam (yunam@nfri.re.kr) Jae-Wook Kim (ijwkim@kaist.ac.kr)	Measurements position setting required
XICS	☐	☐	Sang Gon Lee (sglee@nfri.re.kr)	Ar puffing required
ECEI	☐	☐	Jaehyun Lee (jaehyun@nfri.re.kr)	Need consult for operation (Bt, view windows, sampling rate, etc)
RF Spectrometer	☐	☐	Gunsu Yun (gunsu@postech.ac.kr) Minho Kim (minhokim@nfri.re.kr)	
MIR	☐	☐	Woochang Lee (wclee@nfri.re.kr)	Need consult for operation (Bt, view windows, etc)
Collective Scattering	☐	☐		In commissioning
Fast Reciprocating Probe	☐	☐	Jun-Gyo Bak (jgbak@nfri.re.kr)	Probe setting required
Survey IRTV	☐	☐	Hyungho Lee (jdfm@nfri.re.kr)	Need consult for operation
Divertor IRTV	☐	☐		Need consult for operation
FILD	☐	☐	Junghee Kim (kimju@nfri.re.kr) Sangil Lee (silee@nfri.re.kr)	Need consult for operation
FIDA	☐	☐	Jeongwon Yoo (jwyoo@nfri.re.kr) Junghee Kim (kimju@nfri.re.kr)	Need consult for measurements, NBI modulation required
AXUV	☐	☐	Seungtae Oh (stoh@nfri.re.kr)	In commissioning
X-ray pinhole camera	☐	☐	Juhyeok Jang (jjh4368@nfri.re.kr)	In commissioning
Poloidal Filtered AXUV Array	☐	☐	Juhyeok Jang (jjh4368@nfri.re.kr)	In commissioning
Toloidal Filtered AXUV Array	☐	☐		In commissioning
VUV survey spectrometer	☐	☐	Younghwa An (younghwaan@nfri.re.kr)	Need consult for operation
He-3 detector, Fission chamber	☐	☐	Young Seok Lee (yslee@nfri.re.kr)	Need consult for operation
Neutron Sci-fi detector	☐	☐	Jungmin Jo (jungmin@nfri.re.kr)	Need consult for operation

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Shot plan in sequence (outline only)*

Time	Shots (# of shots, for example)	Comments
09:00 – 09:10	Session briefing / summary meeting	Session briefing should be short
09:00 – 09:30	System checking, TF/PF charging, MD calibration shot etc	A daily session starts after wall reference shot
09:30 ~ 20:00	Day-1	NBI requested from 00 :00
20:00 – 20:30	TF/PF discharging	Closing session

*This table is for outline only. Feel free to add your own plan in the box below this table.

Shot plan in detail (free-format, optional)