Clean Track LITHIUS PRO-V

INTEL Finger Print Document

PRO-V Immersion System TD
&
PRO-V System TD

All Tools except Dry tools
Software version : 100.0.58.226
Sub Operation Panel version : 5.01.40

Dry Tools
Software version : 100.0.58.218
Sub Operation Panel version : 5.01.39

TBL Only
Software version : 100.0.58.228
Sub Operation Panel version : 5.01.40

Teaching Version: 1.28
Temperature Version : 1.30

Revision 7.03

For the P1274 Tool
Created by TEA I-Pro
6/1/2021

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Hardware Finger Print

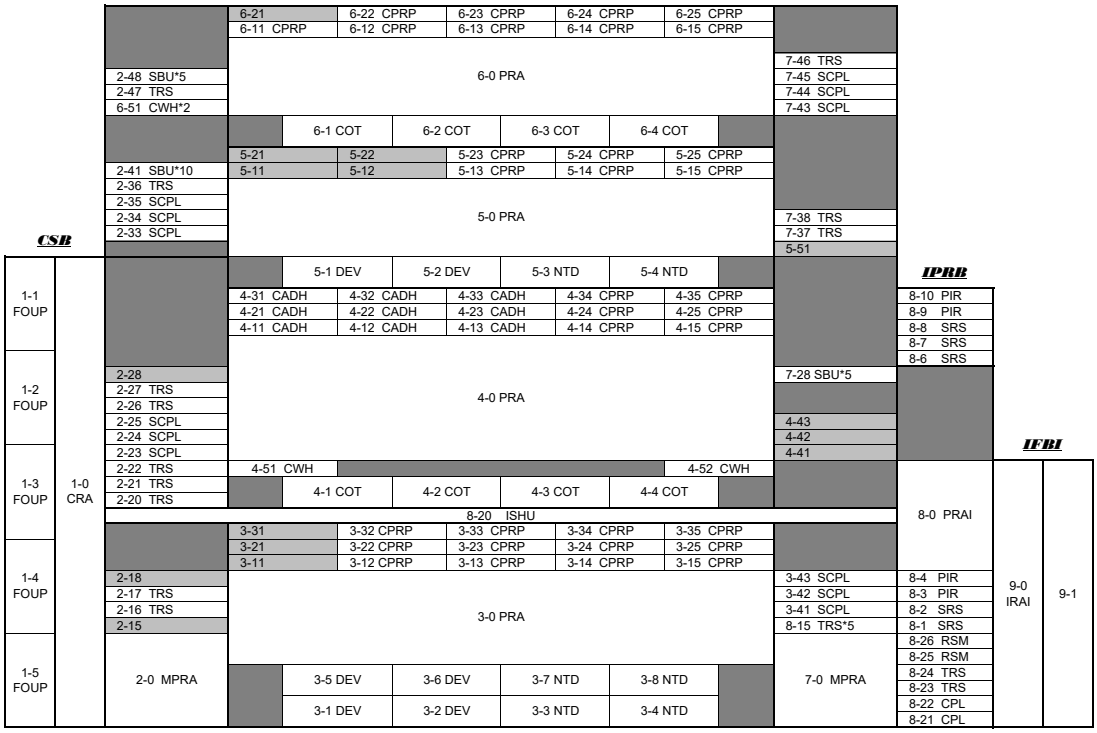
Software Finger Print

Revision History

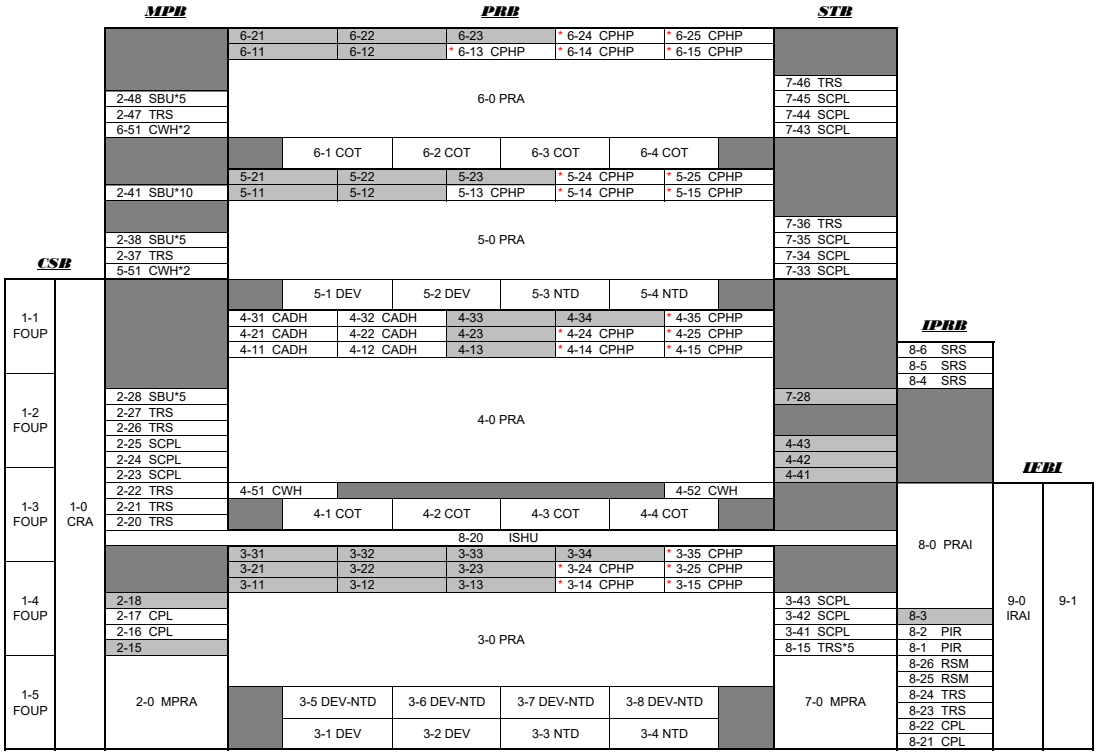
LITHIUS ProV Hardware Fingerprint

1. Overview (Configuration)

1.1 [NTD 6x6] Immersion Configuration (Resist Tracks)

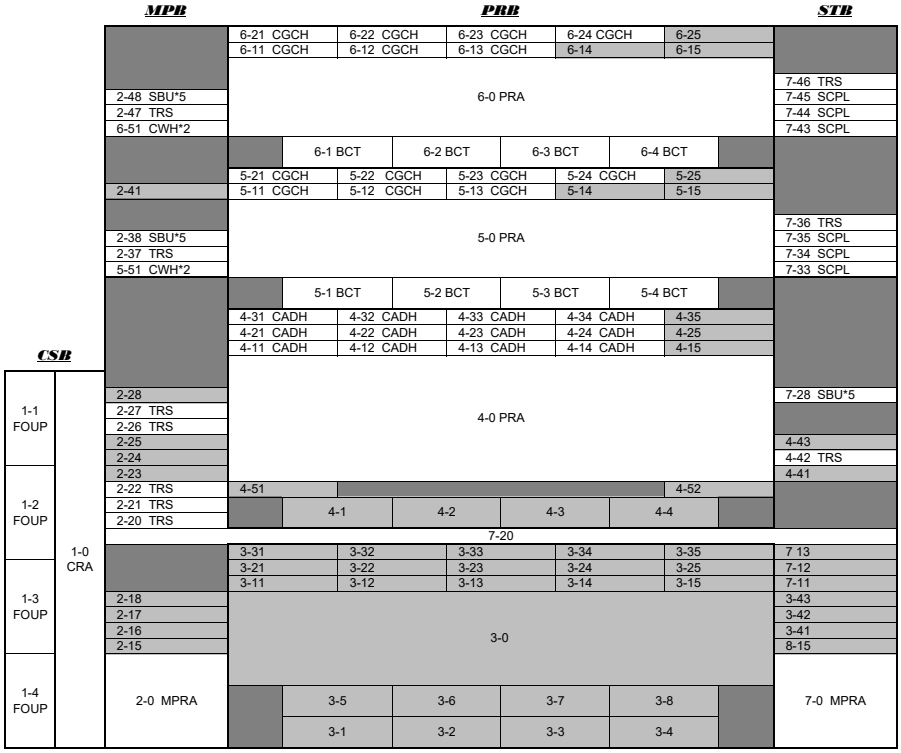


1.2 [NTD 4x4] Immersion Configuration (Resist Tracks)

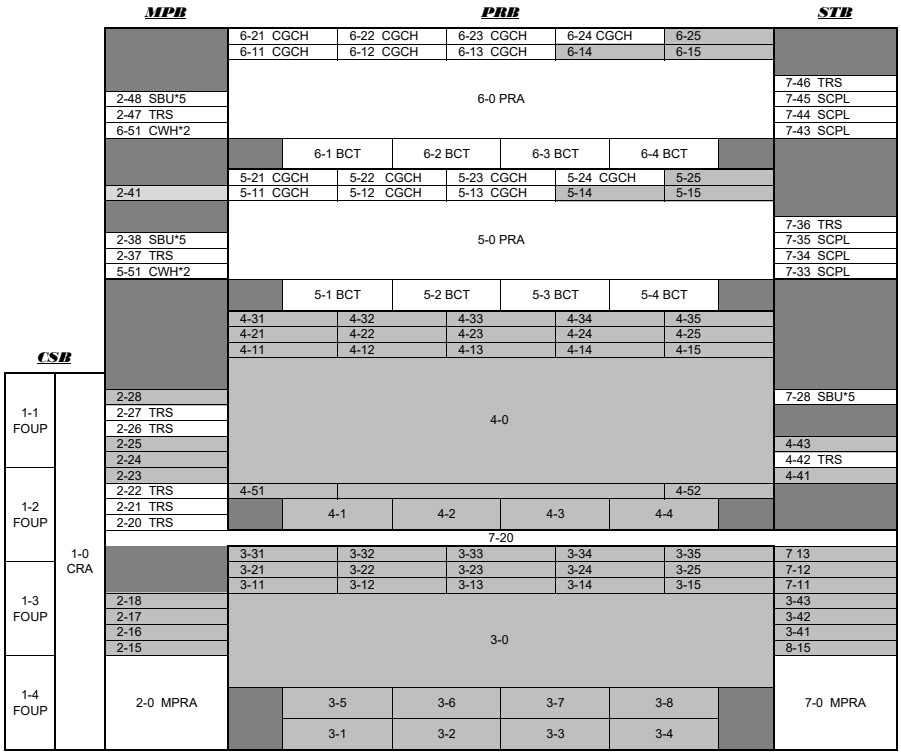


1. Overview (Configuration)

1.3 BARC Configuration TBC/TBE

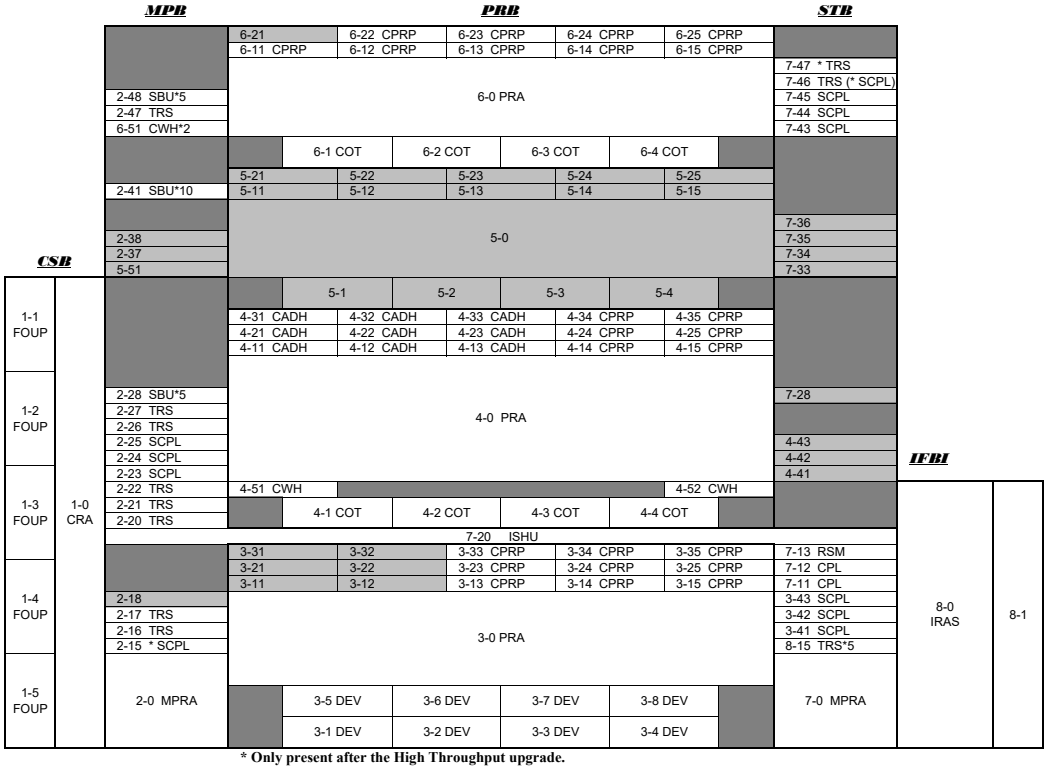


1.4 BARC Configuration TBEna



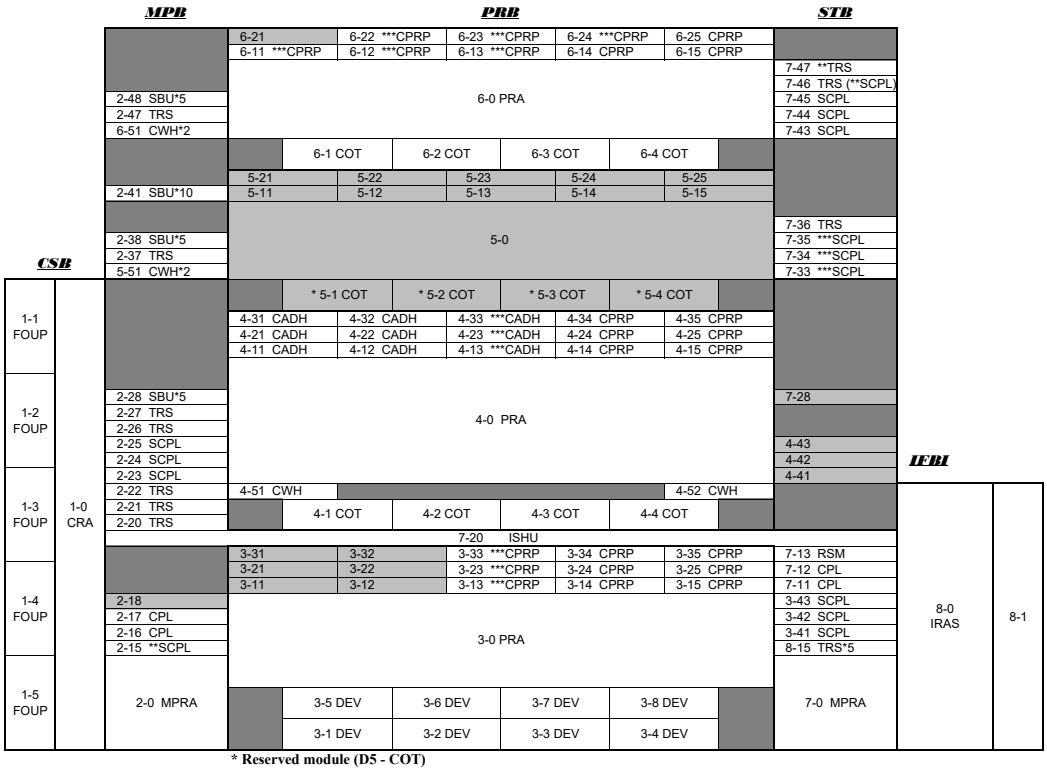
1. Overview (Configuration)

1.5 CE TNE Configuration



*** Only present after the High Throughput upgrade.**

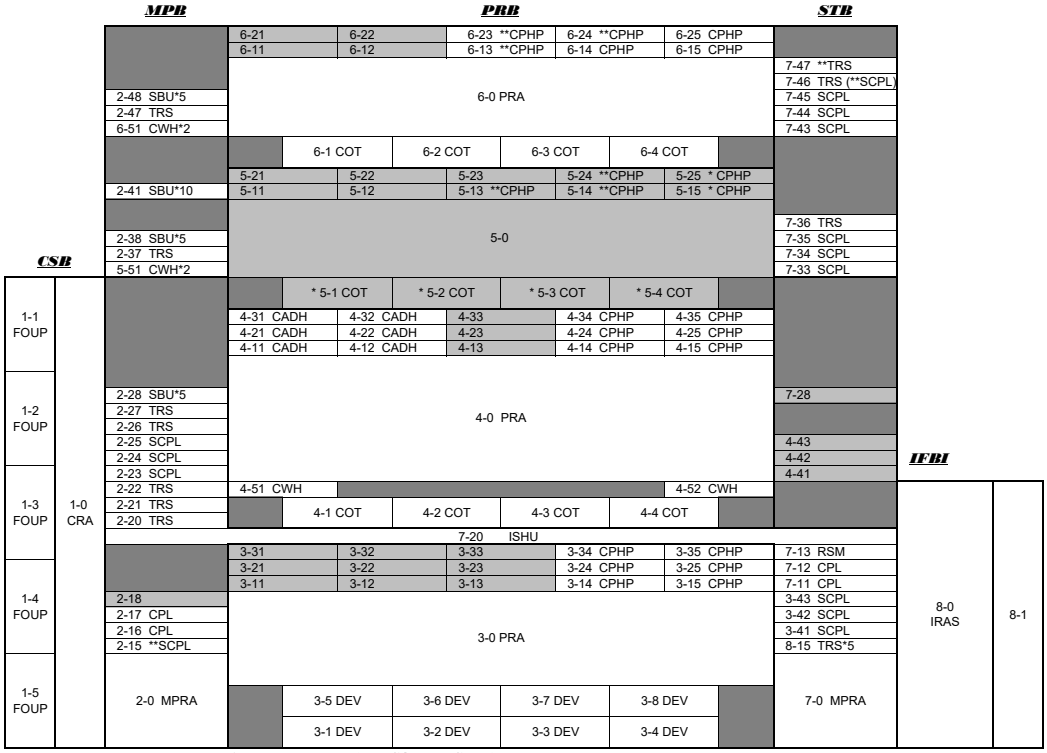
1.6 Non-CE TNE Configuration



*** Reserved module (D5 - COT)**
**** Only present after the High Throughput upgrade.**
***** Not present on HVM conversion tool.**

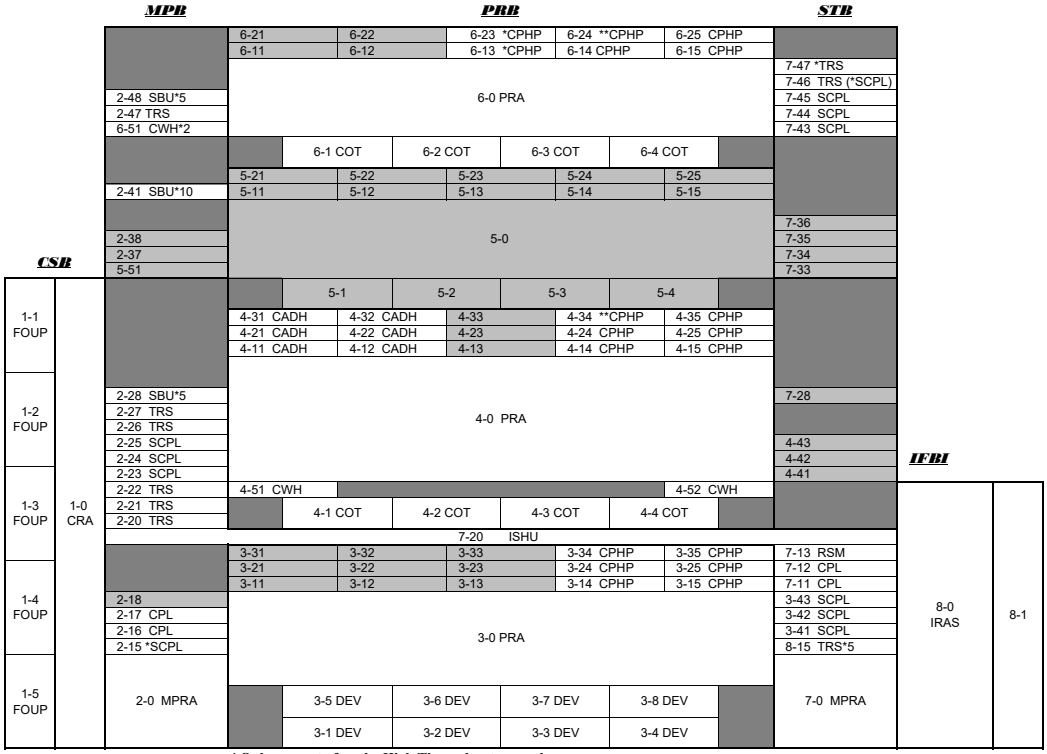
1. Overview (Configuration)

1.7 HVM TNE Configuration_D5 Reserved



*** Reserved module (D5 - COT and CPHP)**
**** Only present after the High Throughput upgrade. (5-13/14/24 CPHP relocate to 6/13/23/24 CPHP)**

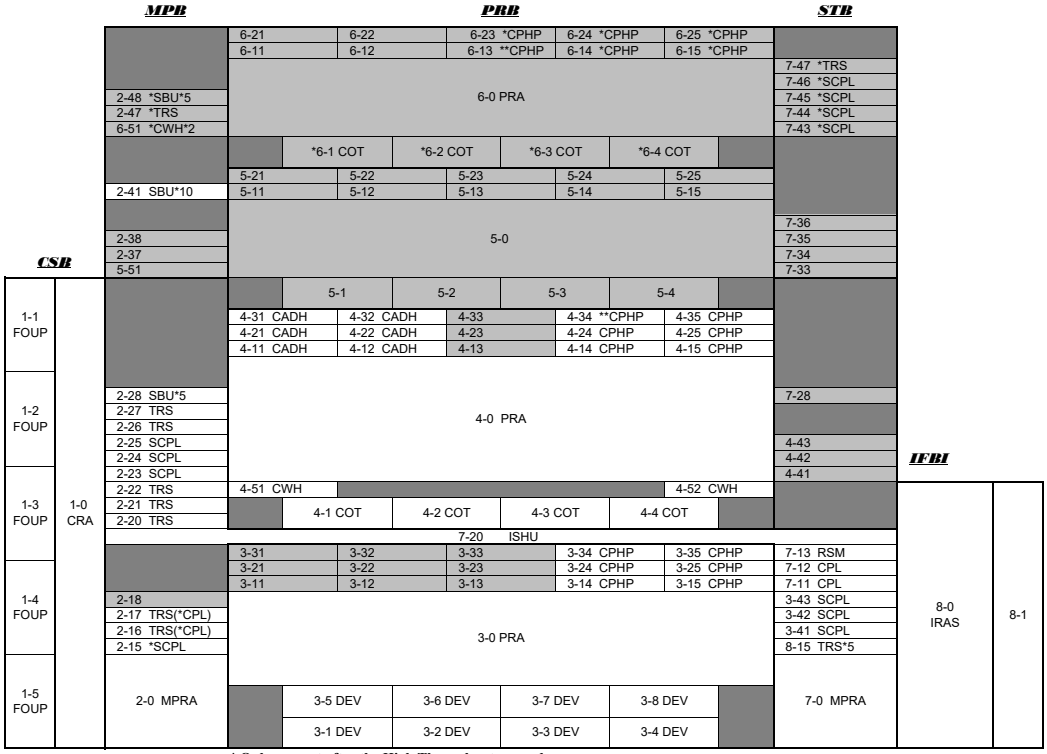
1.9 HVM TNE Configuration_D5 Blanked



*** Only present after the High Throughput upgrade.**
**** 4-33 CPRP relocate to 6-24**

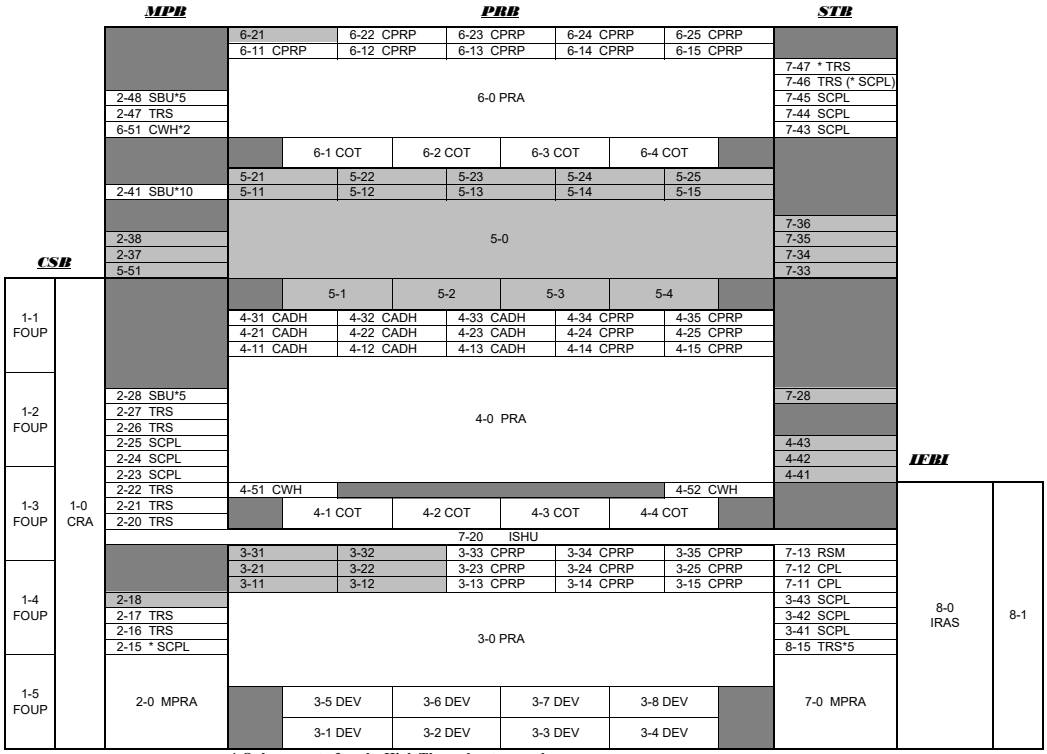
1. Overview (Configuration)

1.10 HVM TNE Configuration_D5/D6 Blanked



*** Only present after the High Throughput upgrade.**
**** 4-33 CPRP relocate to 6-13 after the High Thoughput upgrade.**

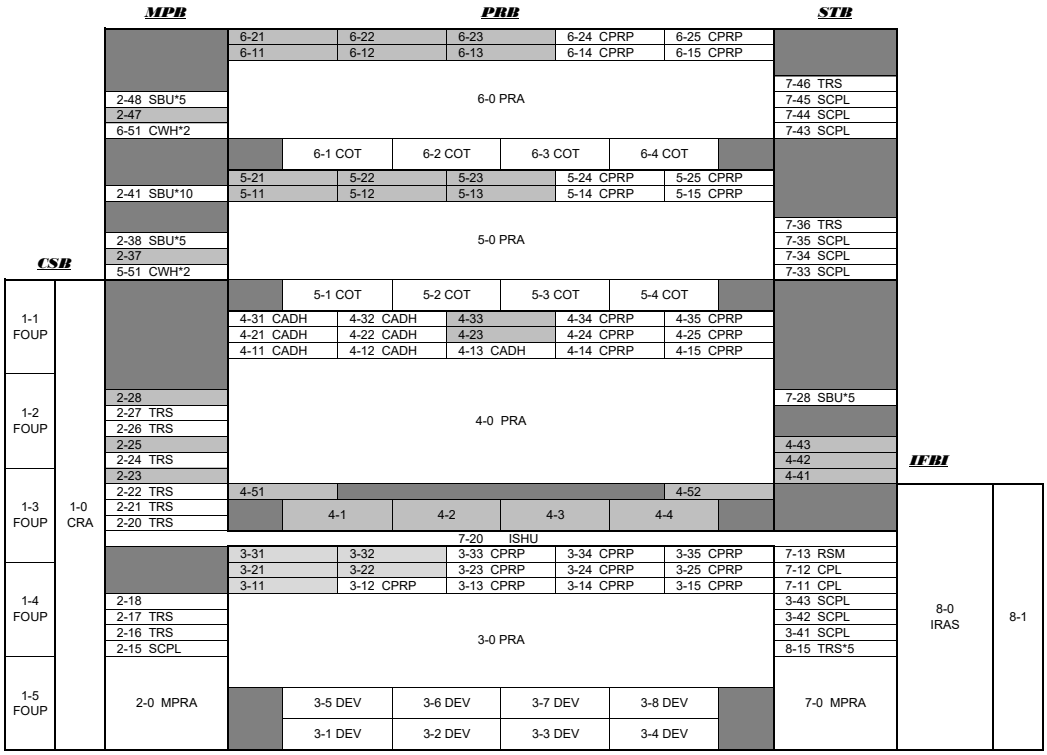
1.11 TNG Configuration



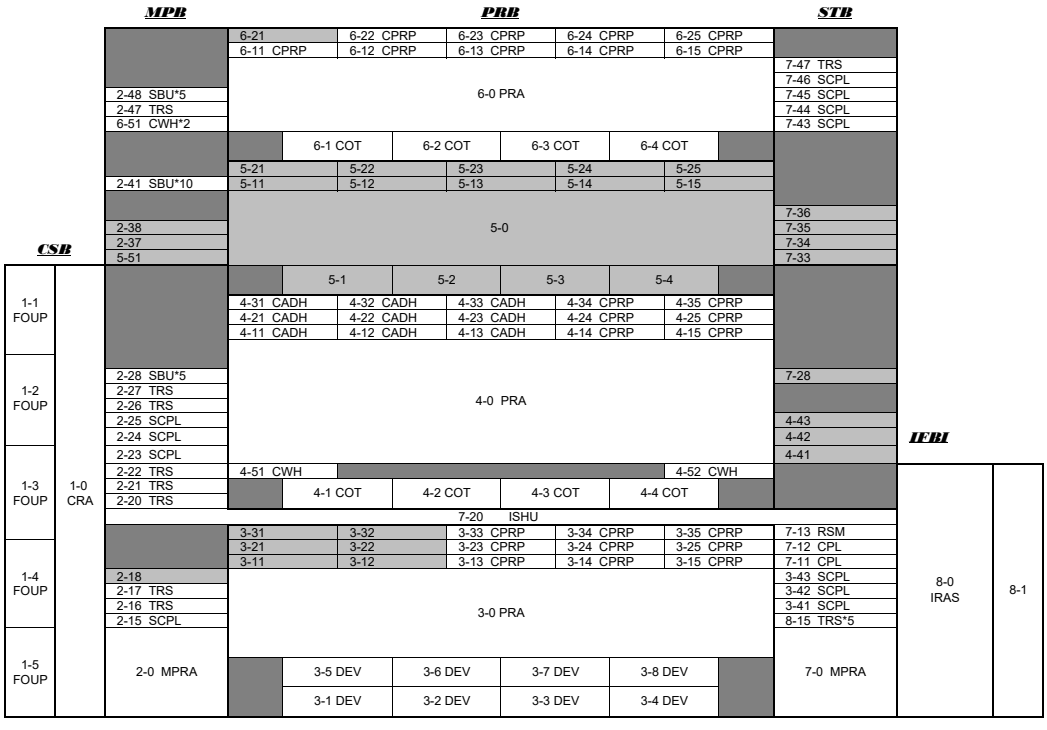
*** Only present after the High Throughput upgrade.**

1. Overview (Configuration)

1.12 TBL Configuration



1.13 TBM Configuration



2. SYSTEM (FAB)

CSB

Block	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
CSB	SYSTEM	Positive Pressure	**0.4**	Pa	0.3 - 0.4	PRB≧CSB	Gauge is below 5-1 Layer flow valves
CSB	SYSTEM	CSB Wind Velocity	**0.3**	m/sec	0.3 ~ 0.4	0.3 (+0.1/-0)	Measure 100mm below punching plate
CSB	SYSTEM	CSB Installation Height	**150**	mm	---	150	
CSB	SYSTEM	STAGE Installation Height	**913**	mm	910 ~ 916	900	From floor to top on Foup pin
CSB	SYSTEM	Clearance between CSB to MPB	**5**	mm	4.5 ~ 5.5	5	
CSB	CRA	CRA Level	**0**	degree	-0.2 ~ 0.2	±0.2	
CSB	SYSTEM	FFU Fan Volume	**Tool Specific**		---	Tool Specific	Set after Mini Evn. Test
CSB	SYSTEM	DC Fan Setting	**Tool Specific**	m/sec	---	Tool Specific	Used for adjusting positive pressure
CSB	SYSTEM	FIMS Door Open Flag Setting Closed	**4.5**	mm	---	4.5	Light is ON --> Flag not yet breaks the sensor position
CSB	SYSTEM	FIMS Door Open Flag Setting Closed	**4.0**	mm	---	4.0	Light is OFF --> Flag breaks the sensor position
CSB	SYSTEM	Load Port Air Supply Setting	**0.45**	Mpa	0.42 ~ 0.48	0.45±0.03	ONLY if Split LP CT-PCP-13-0007 Rev.2 is complete
CSB	SYSTEM	Load Port Door OPEN/CLOSED Speed	**2.8**	sec	2.5 ~ 3.1	2.8±0.3	
CSB	SYSTEM	Load Port Door OPEN/CLOSED Speed	**2.3**	sec	2.0 ~ 2.6	2.3±0.3	ONLY if Split LP CT-PCP-13-0007 Rev.2 is complete
CSB	SYSTEM	Door Protrusion Check	**1.7**	mm	1.5 ~1.9	1.7+/-0.2	Standard setting
CSB	SYSTEM	STAGE VAC.	**-55.0**	kPa	-53 to -57	-55.0	Static Setting
CSB	Loader	Loader Level	**0**	degree	-0.2 to 0.2	±0.2	
CSB	LOADER	Foup Vac	**-55.0**	kPa	-52 to -58	-55.0	Static Setting
CSB	LOADER	Foup Vac. Upper Limit Foup Vac. Lower Limit	**-46.6** **-98.6**	kPa	---	-46.6 -98.6	
CSB	LOADER	CLAMP UNCLAMP	**0.8** **0.8**	sec	0.5 to 1.1	0.8 0.8	Set by Sub-Op display
CSB	LOADER	DOCK UNDOCK	**1.8** **1.8**	sec	1.5 ~ 2.1	1.8 1.8	Set by Sub-Op display
CSB	LOADER	LATCH UNLATCH	**0.8** **0.8**	sec	0.5 ~ 1.1	0.8 0.8	Set by Sub-Op display
CSB	LOADER	UP DOWN	**5.7** **4.8**	sec	5.4 ~ 6.0 4.5 ~ 5.1	5.7 4.8	Set by Sub-Op display

MPB

Block	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
MPB	SYSTEM	MPB Wind Pressure	**200**	Pa	**150 to 250**	Tool Specific	See Wind Pressure Sheet when setting values
MPB	SYSTEM	MPB Installation Height	**250**	mm	---	250	
MPB	MPRA	2-0 Level	**0**	degree	-0.2 to 0.2	0	
MPB	SYSTEM	Chemical Exhaust - L (E6)	**100**	Pa	25 to 300	100	Set by 42.4 cfm
MPB	SYSTEM	Chemical Exhaust - L (U/L Setting) (E6)	**0**	Pa	---	0	
		Chemical Exhaust - L (L/L Setting) (E6)	**10**	Pa	---	10	
MPB	SYSTEM	Clearance between MPB to PRB	**5**	mm	4.5 to 5.5	5	
MPB	SCPL	Plate Temperature	**22.2**	degree	22.0 to 22.4	22.2+/-0.15	All SCPL's in MPB ONLY
MPB	CPL	Plate Temperature	**22.2**	degree	22.0 to 22.4	22.2+/-0.15	

PRB

Block	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
PRB	SYSTEM	PRB Positive Pressure	**0.5**	Pa	0.4 to 0.6	0.5 (+/-0.1)	Includes MPB and STB block. PRB≧CSB
PRB	SYSTEM	PRA Wind Pressure-L	**500**	Pa	400 to 700	Tool Specific	See Wind Pressure Sheet when setting values
PRB	SYSTEM	PRA Wind Pressure-R	**500**	Pa	400 to 700	Tool Specific	See Wind Pressure Sheet when setting values
PRB	SYSTEM	PRB Installation Height	**250**	mm	---	250	
PRB	SYSTEM	Spinner Wind Pressure-L	**200**	Pa	125 to 275	150	See Wind Pressure Sheet when setting values
PRB	SYSTEM	Spinner Wind Pressure-R	**200**	Pa	125 to 275	150	See Wind Pressure Sheet when setting values
PRB	SYSTEM	Spinner Wind Pressure-L *	**300**	Pa	250 to 350	TBD	
PRB	SYSTEM	Spinner Wind Pressure-R *	**300**	Pa	250 to 350	TBD	
PRB	SYSTEM	Amine concentration (SPIN 3-5,6,7,8)	**<1.0**	ppb	---	<1.0	Measurement port Located next to Cup Source gauge
PRB	SYSTEM	Amine concentration (HP Area 1/2)	**<1.0**	ppb	---	<1.0	Measurement port Located next to Cup Source gauge
PRB	PRA	PRA Level	**0 +/-0.2**	degree	-0.2 to 0.2	0 +/-0.2	
PRB	SYSTEM	Clearance between PRB to MPB/STB	**5**	mm	4.5 to 5.5	5	
PRB	COT	Supply Exhaust COT (E3,E4,E5)	**420**	Pa	400 to 440	340	EPC damper must be held Open and use EXH BKM..Target CFM 320
PRB	COT	Low Setting EXH COT (E3,E4,E5)	**20**	Pa	---	20	Sensor located in above 4-0 Layer

* = TNU ONLY

2. SYSTEM (FAB)

PRB

Block	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
PRB	COT	Supply Exhaust COT (E4,E5) *	**610**	Pa	590 ~ 630	610+/-20	Use with Facilities setting [Facilities will pre open to set position]and Blower Fan Dampers.[will be used to achieve the final setting]
PRB	COT	Supply Exhaust COT (E34,E35) *	**610**	Pa	590 ~ 630	610+/-20	Use with Facilities setting [Facilities will pre open to set position]and Blower Fan Dampers.[will be used to achieve the final setting]
PRB	COT/BCT	RRC (Dispense Rate)	**70**	ml/min	63 ~ 77	75	Dynamic Setting - Calibration factor by mass with 2.0 sec dispense assuming density = 1 mg/mL
PRB	COT/BCT	EBR (Dispense Rate)	**20**	ml/min	18 ~ 22	20	Dynamic Setting - Calibration factor by mass with 0.7 sec dispense assuming density = 1 mg/mL
PRB	COT/BCT	Back Rinse (Dispense Rate)	**100**	ml/min	90 ~ 110	100	With Bevel Ver.2
PRB	COT/BCT	EXH. Duct Clean (Dispense Rate)	**200**	ml/min	180 ~ 220	200	Dynamic Setting
PRB	COT/BCT	Drain Case Cleaning (Dispense Rate)	**250**	ml/min	225 ~ 275	250	Dynamic Setting
PRB	COT/BCT	Nozzle / Bath CLN (Dispense Rate)	**600**	ml/min	540 ~ 660	600	Dynamic Setting
PRB	COT/BCT	Nozzle SC (Dispense Rate)	**900**	ml/min	810 ~ 990	900	Dynamic Setting
PRB	COT/BCT	Bevel Rinse (Dispense Rate)	**50**	ml/min	45 ~ 55	60	Dynamic Setting - (With Bevel Ver.2)
PRB	COT/BCT	Bevel Rinse Dispense Speed Controller**	**15**	Turns	---	---	15 turns from the fully close position.
PRB	COT/BCT	Resist Temperature	**22.2**	℃	22.0 ~ 22.4	22.2 +/-0.1	Measured at the nozzle block on Layer 4. On the INLET side of the block. (LEFT Tube)
PRB	COT/BCT	Cup Temperature	**22.2**	℃	22.0 ~ 22.4	22.2 +/-0.1	
PRB	COT/BCT	Cup Humidity	**40.7**	%	40.2 ~ 41.2	40.7 +/-0.5%	
PRB	COT/BCT	Motor Flange Temperature	**22.2**	℃	22.2 ~ 22.4	22.2 +/-0.1	Same as Resist Temp measurement
PRB	COT/BCT	Wind Velocity	**0.2**	m/sec	0.14 ~ 0.26	---	Measurement is taken above each cup and avg. is input to the Setting Value. Measure at 40mm above each cup
PRB	COT/BCT	Positive Pressure	**0.7**	Pa	0.5 ~ 0.9	0.6 to 0.8	COT value must be >than PRA value
PRB	COT/BCT	AMC N2 Purge (Sunx-DP-100)	**11**	kPa	9 ~ 13	10 (+/-2)	Static Setting
PRB	COT/BCT	AMC N2 Purge U/L (Sunx-DP-100) AMC N2 Purge L/L (Sunx-DP-100)	**15** **5**	kPa	---	15 5	
PRB	COT/BCT	Pump Cycle Time (CRD)	**11**	sec	10 ~ 12	Tool Specific	CRD Cycle time
PRB	COT/BCT	Pump Cycle Time (ACRD)	**Pump Specific**	sec	Pump Specific	Tool Specific	Cycle time is dependant on several pump recipe settings. Please set based on INTEL Specific Setting
PRB	DEV	DEV LD (Dispense Rate)	**1800**	ml/min	1620 ~ 1980	1800	Dynamic Setting
PRB	DEV	Bypass (Dispense Rate)	**250**	ml/min	225 ~ 275	250	Dynamic Setting
PRB	DEV	Nozzle RINSE (Dispense Rate)	**2500**	ml/min	2200 ~ 2800	2500	Dynamic Setting
PRB	DEV	MGP (Dispense Rate)	**300**	ml/min	270 ~ 330	300	Dynamic Setting
PRB	DEV	GP (Dispense Rate)	**600**	ml/min	540 ~ 660	600	Dynamic Setting
PRB	DEV	MGP Sub DEV (Dispense Rate)	**250**	ml/min	225 ~ 275	250	Dynamic Setting
PRB	DEV	MGP Sub DIW (Dispense Rate)	**250**	ml/min	225 ~ 275	400	Dynamic Setting
PRB	DEV	RINSE (Dispense Rate)	**1000**	ml/min	900 ~ 1100	1000	Dynamic Setting
PRB	DEV	ADR (Dispense Rate)	**350**	ml/min	315 ~ 385	350	Dynamic Setting
PRB	DEV	XDR (Dispense Rate)	**430**	ml/min	387 ~ 473	430	Dynamic Setting
PRB	DEV	BACK RINSE (Dispense Rate)	**200**	ml/min	180 ~ 220	200	Dynamic Setting
PRB	NTD	NTD (Dispense Rate)	**300**	ml/min	270 - 330	300	Dynamic Setting
PRB	NTD	Rinse with NTD (Dispense Rate)	**120**	ml/min	108 ~ 132	120	Dynamic Setting
PRB	NTD	Back Rinse with NTD (Dispense Rate)	**200**	ml/min	180 ~ 220	200	Dynamic Setting
PRB	NTD	Bevel Rinse with NTD (Dispense Rate)	**50**	ml/min	45 ~ 55	50	Dynamic Setting
PRB	DEV	MGP Bath Exhaust Flow	**10**	L/min	7.5 ~ 12.5	10+/-2.5	Static Setting - Located to the right of Cup 4 for all PTD layers
PRB	DEV	Water Seal (Dispense Rate)	**100**	ml/min	>100	100+100/-0	Dynamic Setting Not Used for NTD CUP
PRB	DEV	LD Nozzle Blow	**0**	ml/min	25	25	Not use at INTEL Set to 0 with correct flow meter gauge

* = TNU ONLY

** = Speed controller not present on Dry tools

2. SYSTEM (FAB)

PRB

Block	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
PRB	DEV	XDR N2 Source Pressure	**0.35**	MPa	0.32 to 0.35	0.35+0/-0.03	Static Setting
PRB	DEV	XDR N2 Flow Setting	**20**	L/min	20 ~ 20.5	20+0.5-0	Measure mass flow meter JIG
PRB	DEV	XDR N2 Pressure Setting	**265**	kPa	150 ~ 300	---	Based on 20L/min setting
PRB	DEV	XDR N2 Pressure Sensor U/L XDR N2 Pressure Sensor L/L	**Module Specific** **Module Specific**	kPa	---	Module Specific Module Specific	U/L is based on flow setting of 21L/min L/L is based on flow setting of 16L/mir
PRB	DEV	ADR N2 Source Pressure	**50**	kPa	40 to 60	50 (+/-10)	Dynamic Setting
PRB	DEV	ADR N2 Flow Setting	**5**	L/min	4.5 ~ 5.5	5	
PRB	DEV	ADR N2 Pressure Setting	**15**	kPa	5 to 25	---	Based on 5L/min setting
PRB	DEV	ADR N2 Pressure Sensor U/L ADR N2 Pressure Sensor L/L	**Module Specific** **Module Specific**	kPa	---	Module Specific Module Specific	U/L is based on flow setting of 6L/min L/L is based on flow setting of 3L/mir
PRB	NTD	NTD N2 Pressure Setting	**4**	kPa	2 to 6	---	Based on 5L/min setting
PRB	NTD	NTD N2 Pressure Sensor U/L NTD N2 Pressure Sensor L/L	**Module Specific** **Module Specific**	kPa	---	Module Specific Module Specific	U/L is based on flow setting of 6L/min L/L is based on flow setting of 3L/mir
PRB	DEV/NTD	Developer Solution Temperature	**23**	℃	22.8 to 23.2	23+/-0.15	Checked in the chemical box below 3-1 layer (under tool)
PRB	DEV/NTD	Cup Temperature	**22.2**	℃	22.0 to 22.4	22.2 (+/-0.1)	
PRB	DEV/NTD	SPIN Cup Humidity	**40.7**	%	40.2 ~ 41.2	40.7 (+/-0.5%)	
PRB	DEV/NTD	Motor Flange Temperature	**23**	℃	22.8 to 23.2	23 (+/-0.15)	Same temp as Developer Solution check point
PRB	DEV/NTD	Wind Velocity	**0.2**	m/sec	0.14 ~ 0.26	---	and avg. is input to the Setting Value. Measure at 40mm above each cup
PRB	DEV/NTD	Positive Pressure	**0.6**	Pa	0.5 ~ 0.6	0.6 ~ 0.8	DEV value must be HIGHER than PRA value (0.6 +0.0/-0.1)
PRB	DEV/NTD	DEV/NTD Positive Pressure Bias	**0.0 to 0.1**	Pa	-	-	Bias = DEV/NTD positive pressure – PRB positive pressure
PRB	DEV	Supply Exhaust DEV (E1,E2) (8x0 Config)	**320**	Pa	300 ~ 340	320 ~ 400	Value is checked with outer cup up and following the EXH BKM.
PRB	DEV	Supply Exhaust DEV (E1) (4x4 Config)	**320**	Pa	300 ~ 340	320 ~ 400	Value is checked with outer cup up and following the EXH BKM.
PRB	NTD	Supply Exhaust NTD (E2) (4x4 Config)	**400**	Pa	250 to 550	----	Following the EXH BKM.
PRB	DEV/NTD	Supply Exhaust NTD (E1,E2) (6x6 Config)	**400**	Pa	300 to 600	400 to 500	Following the EXH BKM.
PRB	DEV/NTD	Supply Exhaust NTD (E23) (6x6 Config)	**500**	Pa	400 to 600	400 to 500	Following the EXH BKM.
PRB	CADH	Ring Purging Pressure	**0.18**	MPa	0.17 ~ 0.19	0.18 (+/-0.01)	Static Pressure [Chamber Down]
PRB	CADH	Vaporize CADH	**0.1**	MPa	0.1 ~ 0.12	0.08	Static Pressure
PRB	CADH	Chamber Purge CADH	**0.04**	MPa	0.04 ~ 0.05	0.04	Static Pressure
PRB	CADH	Chemical Area Exhaust (E8)	**150**	Pa	75 ~ 325	>100	Set by CFM 15.9 +/- 10% Applies to all track configurations
PRB	CADH	Chemical Area Exhaust U/L Setting (E8)	**0**	Pa	---	0	
		Chemical Area Exhaust L/L Setting (E8)	**70**	Pa	---	20	
PRB	CADH	Chemical Area Exhaust (E24)	**180**	Pa	160 ~ 200	100	Target is min of 100Pa 12 CADH System Tool Spec
PRB	CADH	Chemical Area Exhaust U/L Setting (E24)	**0**	Pa	---	0	
		Chemical Area Exhaust L/L Setting (E24)	**100**	Pa	---	20	
PRB	CADH	Ejector Chamber Exhaust Source	**0.32**	MPa	0.31 ~ 0.33	0.32 +/-0.01	Chamber should be down
PRB	CADH	Ejector Chamber Exhaust Setting	**0.47**	KPa	0.45 to 0.49	0.47	Chamber should be down
PRB	CADH	EXH Upper Limit EXH Lower Limit	**0.76** **0.38**	KPa	---	0.76 0.38	
PRB	CPRP	CPRP Chamber N2 Purge Source Pressure	**0.15**	MPa	0.10 to 0.20	0.15	TBL Deck 4 specific

2. SYSTEM (FAB)

STB

Block	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
STB	SYSTEM	STB Wind Pressure	**200**	Pa	150 to 250	Tool Specific	See Wind Pressure Sheet when setting values
STB	SYSTEM	SCPL Plate VAC (STB ONLY) (V1)	**-75**	kPa	-75 to -80	-75 (+/-0.4)	Static Pressure Setting
STB	SYSTEM	SCPL Plate (MPB only) (V1)	**-75**	kPa	-75 to -80	-75 (+/-0.4)	Static Pressure Setting
STB	SYSTEM	Module Drive (A1)	**0.35**	MPa	0.32 to 0.38	0.35 (+/-0.03)	Static Pressure Setting
STB	SYSTEM	Air Pressure Switch (A1) Digital Gauge	**0.35**	MPa	0.32 to 0.38	0.35 (+/-0.03)	Static Pressure Setting
STB	SYSTEM	Air Pressure Switch (A1) Digital Gauge--UL	**0.38**	MPa	---	0.38	
STB	SYSTEM	Air Pressure Switch (A1) Digital Gauge--LL	**0.32**	MPa	---	0.32	
STB	SYSTEM	HP Cooling (A3,A4,A5,A6,A7,A8)	**≧0.50**	MPa	---	≧0.45	Static Pressure Setting
STB	MPRA	7-0 Level	**0**	degree	-0.2 to 0.2	0+0.2/-0.2	
STB	SYSTEM	CRD Resist Pump Purge	**11**	kPa	9.0 to 13.0	10 (+/-2)	Static Pressure Setting
STB	SYSTEM	CRD Resist Pump Purge U/L Setting CRD Resist Pump Purge L/L Setting	**15** **5**	kPa	---	15 5	
STB	SYSTEM	ACRD Resist Pump Purge	**15**	kPa	14 to 16	15(+/-1)	Static Pressure Setting
STB	SYSTEM	ACRD Resist Pump Purge U/L Setting ACRD Resist Pump Purge L/L Setting	**20** **5**	kPa	---	15 5	
STB	SYSTEM	Resist Bottle Pressure	**30**	kPa	25.0 to 35.0	50	Dynamic Pressure Setting
STB	SYSTEM	Resist Pump Vac	**-50**	kPa	-45 to -55	-50	Static Pressure Setting
STB	SYSTEM	CRD Resist Pump Pressure	**20**	kPa	15 to 25	20	Static Pressure Setting
STB	SYSTEM	Chemical Exhaust - R (E7)	**150**	Pa	25 to 250	100	Set by 35.3 cfm
STB	SYSTEM	Chemical Exhaust - R (U/L Setting) (E7)	**0**	Pa	---	0	
		Chemical Exhaust - R (L/L Setting) (E7)	**10**	Pa	---	10	
STB	SYSTEM	Clearance between STB to PRB	**5**	mm	4.5 to 5.5	5	
STB	SCPL	Plate Temperature	**23**	degree	22.8 to 23.2	22.2+/-0.15	ONLY 3-41,42,43 All others at 22.2

2. SYSTEM (FAB)

IPRB**

Block	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
IPRB	SYSTEM	Positive Pressure	**0.4**	Pa	0.3 to 0.5	STP≧IFB ≦PRB/iPRB	INTEL Setting : SRS/PIR at 0.3 < PRAI 0.4
IPRB	SYSTEM	Positive Pressure (PIR/SRS)	**0.3**	Pa	0.2 to 0.4	PIR/SRS>/=PRAi	INTEL Setting : SRS/PIR at 0.3 < PRAI 0.4
IPRB	SYSTEM	Module Drive	**0.35**	MPa	0.32 to 0.38	0.35 (+/-0.03)	Static Pressure Setting
IPRB	SYSTEM	Spin Chuck Vac	**-75**	kPa	-75 to -80	-75 (+/-0.4)	Static Pressure Setting
IPRB	SYSTEM	IFB Seal	**0.07**	MPa	0.06 to 0.08	0.07 (+/-0.01)	Static Pressure Setting
IPRB	SYSTEM	Wind Pressure PRAi	**100**	Pa	50 to 150	Tool Specific	See Wind Pressure Sheet when setting values
IPRB	SYSTEM	Wind Pressure PIR (4X4)	**25**	Pa	15 to 35	Tool Specific	See Wind Pressure Sheet when setting values
IPRB	SYSTEM	Wind Pressure SRS (4X4)	**25**	Pa	15 to 35	Tool Specific	See Wind Pressure Sheet when setting values
IPRB	SYSTEM	Wind Pressure PIR (6X6)	**45**	Pa	35 to 55	Tool Specific	See Wind Pressure Sheet when setting values
IPRB	SYSTEM	Wind Pressure SRS (6X6)	**45**	Pa	35 to 55	Tool Specific	See Wind Pressure Sheet when setting values
IPRB	SYSTEM	Air Pressure Switch (A1) Digital Gauge	**0.35**	MPa	0.32 to 0.38	0.35 (+/-0.03)	Static Pressure Setting
IPRB	SYSTEM	Air Pressure Switch (A1) Digital Gauge--UL	**0.38**	MPa	---	0.38	
IPRB	SYSTEM	Air Pressure Switch (A1) Digital Gauge--LL	**0.32**	MPa	---	0.32	
IPRB	SYSTEM	Amine concentration (PIR/SRS)	**＜1.0**	ppb	---	＜1.0	Measurement port in lower right chemical area of IPB
IPRB	SYSTEM	iPRB Installation Height	**150**	mm	145 ~ 155	150 (+/-5)	
IPRB	PRAI	Level of PRAi base	**0**	degree	0+/-0.2	0 (+/-0.2)	
IPRB	PIR/SRS	BACK RINSE (Dispense Rate)	**200**	ml/min	180 ~ 220	200	Dynamic Setting
IPRB	PIR/SRS	IDR (Dispense Rate)	**150**	ml/min	135 ~ 165	200	Dynamic Setting
IPRB	SRS	IE Nozzle (Dispense Rate)	**200**	ml/min	180 ~ 220	200	Dynamic Setting
IPRB	PIR/SRS	PDR N2 Drive Pressure	**50**	kPa	40 ~ 60	50	Dynamic Setting
IPRB	PIR/SRS	PDR N2 Flowrate	**5**	L/min	4.5 ~ 5.5	5	
IPRB	PIR/SRS	PDR N2 Pressure Setting	**11**	kPa	6 to 16	---	Based on 5L/min setting
IPRB	PIR/SRS	PDR N2 Pressure Upper Sensor U/L PDR N2 Pressure Upper Sensor L/L	**Module Specific** **Module Specific**	kPa	---	Module Specific Module Specific	U/L is based on flow setting of 10L/min L/L is based on flow setting of 3L/mir
IPRB	CPL	Plate Temperature	**22.2**	Degree	22.0 to 22.4	22.2+/-0.18	
IPRB	PIR	Exhaust Source Setting (E13)	**N/A**	Pa	35 ~ 45	40	SET BY PRESSURE (Use Start-up BKM) [Manual Damper should be fully CLOSED in Blank/RSV modules]
IPRB	SRS	Exhaust Source Setting (E14)	**N/A**	Pa	55 ~ 65	60	SET BY PRESSURE (Use Start-up BKM) [Manual Damper should be fully CLOSED in Blank/RSV modules]

**=for immersion tool only

IFBI/IFB

Block	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
IFBI/IFB	SYSTEM	Positive Pressure	**0.3**	Pa	0.2 ~ 0.4	STP≧IFB ≦IPB	
IFBI/IFB	SYSTEM	Amine concentration (IFB/IFBi)	**＜1.0**	ppb	---	＜1.0	Measurement port Located next to Cup Source gauge
IFBI/IFB	SYSTEM	IFBi/IFB Installation Height	**68.5**	mm	78.5 ~ 68.5	68.5 (+10/0)	
IFBI/IFB	IRAI/IRA	Level of IRA base	**0**	degree	0.2 ~ -0.2	0.2 ~ -0.2	
IFB	SYSTEM	IFB Seal	**0.07**	MPa	0.06 to 0.08	0.07 (+/-0.01)	Static Pressure Setting
IFBI	SYSTEM	Clearance between iPRB and IFBi	**5**	mm	4.5 ~ 5.5	5	
IFBI/IFB	SYSTEM	Clearance between IFBI/IFB and EXP	**30**	mm	20 ~ 40	30 (+/-10)	Both for ASML and Nikon

3. SYSTEM (SUB-FAB)

AC Power Box

Location	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
External	AC Power Box	AC Power Box Installation Height	**100**	mm	95 ~ 105	100 ±5	
External	AC Power Box	Primary Supply Power Voltage	**3Phases AC200 to 220**	V	+/-10%	+/-10%	

COT Cabinet

Location	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
External	COT Cabinet	COT CAB Installation Height (V5)	**90**	mm	85 ~ 95	90 ±5	Taller Version of Cabinet
External	COT Cabinet	COT CAB Installation Height (V4)	**100**	mm	95 ~ 105	100 ±5	
External	COT Cabinet	Module Drive (A2)	**0.35**	MPa	0.30 ~ 0.40	0.35 (+0.05/-0)	Static Pressure Setting
External	COT Cabinet	XDR N2 Pressure Source	**0.45**	MPa	0.45 ~ 0.50	0.45 (+0.05/-0)	
External	COT Cabinet	N2 (1)	**0.4**	MPa	0.35 ~ 0.45	0.4 (+/-0.05)	
External	COT Cabinet	Solvent PCS (1,2) Drive	**0.25**	MPa	0.20 ~ 0.30	0.10 ~ 0.30	
External	COT Cabinet	Solvent PCS (1,2) Ejector Drive 1,2,3	**0.1 ~ 0.35**	MPa	---	0.1 ~ 0.35	
External	COT Cabinet	Solvent PCS (1,2) Fill Pressure	**0.1**	MPa	0.1 ~ 0.12	0.1 (+0.02/-0)	
External	COT Cabinet	PCS (1,2,3) VAC Setting Sol. (1,2)	**-45.0**	kPa	-40.0 to -50.0	-35.0 (+0/-5)	
External	COT Cabinet	PCS (1,2,3) VAC U/L Setting Sol. (1,2) PCS (1,2,3) VAC L/L Setting Sol. (1,2)	**-29.0** **-99.9**	kPa	---	-29.0 -99.0	
External	COT Cabinet	HMDS Tank Pressure	**0.11**	MPa	0.10 ~ 0.12	0.11	
External	COT Cabinet	HMDS Empty Weight	**Variable**	kg	---	---	Zero with empty weight scale
External	COT Cabinet	HMDS Vent Valve Setting	**2T**	---	---	Full Open	2T= Full open then closed by 2 Turns. This allows for some adjustment if needed
External	COT Cabinet	FILTER VENT	**60**	ml/min	54 to 66	---	IFFS ENABLED TOOL CONFIGURATIONS
External	COT Cabinet	FILTER PURGE	**75**	ml/min	68 to 82	---	IFFS ENABLED TOOL CONFIGURATIONS
External	COT Cabinet	IFFS SOL. PCS (1,2,3) VAC Setting Sol. (1,2)	**-80.0**	kPa	-77.0 to -83.0	-80.0 (+/-3)	IFFS ENABLED TOOL CONFIGURATIONS
External	COT Cabinet	IFFS SOL.PCS (1,2,3) VAC U/L Setting Sol. (1,2) IFFS SOL.PCS (1,2,3) VAC L/L Setting Sol. (1,2)	**-75.0** **-85.0**	kPa	---	**-75.0** **-85.0**	IFFS ENABLED TOOL CONFIGURATIONS
External	COT Cabinet	IFFS Control box P_1 setting	**0.1**	MPa	0.08 ~ 0.12	Tool Specific	IFFS ENABLED TOOL CONFIGURATIONS Pressure necessary to achieve 100 ml/min with filter vent valve full open and filter blank installed
External	COT Cabinet	IFFS Control box P_2 setting	**0.14**	MPa	0.12 ~ 0.16	Tool Specific	IFFS ENABLED TOOL CONFIGURATIONS P_2 setting is 0.03 higher than P_1
External	COT Cabinet	IFFS Control box P_3 setting	**0.19**	MPa	0.17 ~ 0.21	Tool Specific	CRF ENABLED TOOL CONFIGURATIONS P_3 is 0.05 less than PCS drive pressure, (POS only) P_3 for both decks must be matched.
External	COT Cabinet	CRF Return Line	**60.0**	ml/min	54 to 66	60.0	CRF ENABLED TOOL CONFIGURATIONS
External	COT Cabinet	CRF Drain Line	**60.0**	ml/min	54 to 66	60.0	CRF ENABLED TOOL CONFIGURATIONS

DEV Cabinet

Location	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
External	DEV Cabinet	DEV CAB Installation Height (V5)	**90**	mm	85 ~ 95	90 ±5	Taller Version of Cabinet
External	DEV Cabinet	DEV CAB Installation Height (V4)	**100**	mm	95 ~ 105	100 ±5	
External	DEV Cabinet	Module Drive (A2)	**0.35**	MPa	0.32 ~ 0.38	0.35 (+0.05/-0)	Static Pressure Setting
External	DEV Cabinet	DEV Solution (1,2) PCS (1,2) Drive	**0.25**	MPa	0.20 ~ 0.30	0.10 ~ 0.30	Static Pressure Setting
External	DEV Cabinet	DEV Solution (1,2) PCS (1,2) Ejector Drive 1,2,3	**0.1 ~ 0.35**	MPa	---	0.1 ~ 0.35	Static Pressure Setting
External	DEV Cabinet	DEV Solution PCS (1,2) Fill Pressure	**0.15**	MPa	0.15 to 0.17	0.1 (+0.02/-0)	Due to Pre-PCS filter add from INTEL
External	DEV Cabinet	PCS (1,2,3) VAC Setting Dev Sol. (1,2)	**-65.0**	kPa	-60.0 to 65.0	-55 (+0/-5)	Static Pressure Setting
External	DEV Cabinet	PCS (1,2,3) VAC U/L Setting DEV (1,2) PCS (1,2,3) VAC L/L Setting DEV (1,2)	**-49.0** **-99.9**	kPa	---	-49.0 -99.0	Static Pressure Setting

3. SYSTEM (SUB-FAB)

TNE DEV Cabinet

Location	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
External	DEV Cabinet	DIW 4 Sub Setting (MGP)	**0.15**	MPa	0.15 ~ 0.17	0.15 (+0.02/-0)	
External	DEV Cabinet	DEV Rinse Nozzle	**0.20**	MPa	0.20 ~ 0.22	0.15 (+0.02/-0)	
External	DEV Cabinet	DEV Back Rinse	**0.15**	MPa	0.15 ~ 0.17	0.15 (+0.02/-0)	
External	DEV Cabinet	Nozzle Bath (2)	**0.20**	MPa	0.20 ~ 0.22	0.20 (+0.02/-0)	

TNE w/ HTP upgrade DEV Cabinet

Location	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
External	DEV Cabinet	DIW 4 Sub Setting (MGP)	**0.15**	MPa	0.15 ~ 0.17	0.15 (+0.02/-0)	
External	DEV Cabinet	DEV Rinse Nozzle	**0.20**	MPa	0.20 ~ 0.22	0.15 (+0.02/-0)	
External	DEV Cabinet	DEV Back Rinse	**0.15**	MPa	0.15 ~ 0.17	0.15 (+0.02/-0)	

TNG/TBL DEV Cabinet

Location	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
External	DEV Cabinet	C.P.V for D.I. Water (1)	**0.20**	MPa	0.19 ~ 0.21	0.2	For DEV RINSE
External	DEV Cabinet	DEV Rinse Nozzle	**0.25**	MPa	0.25 ~ 0.27	0.20 (+0.02/-0)	Supply Regulator
External	DEV Cabinet	DIW 4 Sub Setting (MGP)	**0.15**	MPa	0.15 ~ 0.17	0.15 (+0.02/-0)	
External	DEV Cabinet	DEV Back Rinse	**0.15**	MPa	0.15 ~ 0.17	0.15 (+0.02/-0)	
External	DEV Cabinet	Nozzle Bath (2)	**0.20**	MPa	0.20 ~ 0.22	0.20 (+0.02/-0)	

TNG w/ HTP upgrade and TBM DEV Cabinet

Location	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
External	DEV Cabinet	C.P.V for D.I. Water (1)	**0.20**	MPa	0.19 ~ 0.21	0.2	For DEV RINSE
External	DEV Cabinet	DEV Rinse Nozzle	**0.25**	MPa	0.25 ~ 0.27	0.20 (+0.02/-0)	Supply Regulator
External	DEV Cabinet	DIW 4 Sub Setting (MGP)	**0.15**	MPa	0.15 ~ 0.17	0.15 (+0.02/-0)	
External	DEV Cabinet	DEV Back Rinse	**0.15**	MPa	0.15 ~ 0.17	0.15 (+0.02/-0)	

TAR/TNR DEV Cabinet

Location	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
External	DEV Cabinet	DIW 4 Sub Setting (MGP)	**0.15**	MPa	0.15 ~ 0.17	0.15 (+0.02/-0)	
External	DEV Cabinet	DEV Rinse Nozzle	**0.20**	MPa	0.20 ~ 0.22	0.15 (+0.02/-0)	
External	DEV Cabinet	DEV Back Rinse	**0.15**	MPa	0.15 ~ 0.17	0.15 (+0.02/-0)	
External	DEV Cabinet	Nozzle Bath (2)	**0.20**	MPa	0.20 ~ 0.22	0.20 (+0.02/-0)	
External	DEV Cabinet	PIR/SRS Rinse	**0.15**	MPa	0.15 ~ 0.17	0.15 (+0.02/-0)	
External	DEV Cabinet	PIR/SRS Back Rinse	**0.15**	MPa	0.15 ~ 0.17	0.15 (+0.02/-0)	

Immersion DEV Cabinet

Location	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
External	DEV Cabinet	DEV Rinse Nozzle	**0.25**	MPa	0.25 ~ 0.27	0.20 (+0.02/-0)	Supply Regulator
External	DEV Cabinet	DEV Back Rinse Nozzle	**0.15**	MPa	0.15 ~ 0.17	0.15 (+0.02/-0)	Supply Regulator / Same as non-CPV-tool
External	DEV Cabinet	C.P.V for D.I. Water (1)	**0.20**	MPa	0.19 ~ 0.21	0.2	For DEV RINSE and BACK RINSE
External	DEV Cabinet	MGP1 SUB DIW	**0.20**	MPa	0.20 ~ 0.22	0.15 (+0.02/-0)	Supply Regulator
External	DEV Cabinet	C.P.V for MGP Sub D.I. Water	**0.15**	MPa	0.14 ~ 0.16	0.15	
External	DEV Cabinet	SRS Rinse / Back Rinse	**0.20**	MPa	0.20 ~ 0.22	0.15 (+0.02/-0)	Supply Regulator / For 8-1 / 8-2 / 8-6 / 8-7 / 8-8
External	DEV Cabinet	C.P.V for SRS	**0.15**	MPa	0.14 ~ 0.16	0.15	
External	DEV Cabinet	PIR Rinse / Back Rinse	**0.20**	MPa	0.20 ~ 0.22	0.15 (+0.02/-0)	Supply Regulator / For 8-3 / 8-4 / 8-9/ 8-10
External	DEV Cabinet	C.P.V for PIR	**0.15**	MPa	0.14 ~ 0.16	0.15	

3. SYSTEM (SUB-FAB)

NTD Cabinet - [For TAR/TAS/TAU/TNK/TNR/TNS/TNU location is COT Cab] [For TAQ/TNQ location is DEV Cab]

Location	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
External	COT Cabinet	Solvent 2 PCS (1,2) Drive	**0.25**	MPa	0.20 ~ 0.30	0.10 ~ 0.30	
External	COT Cabinet	Solvent 2 PCS (1,2) Ejector Drive	**0.1 ~ 0.35**	MPa	---	0.1 ~ 0.35	
External	COT Cabinet	Solvent 2 PCS (1,2) Fill Pressure	**0.1**	MPa	0.1 ~ 0.12	0.1 (+0.02/-0)	
External	COT Cabinet	Solvent 2 PCS (1,2) VAC Setting	**-65.0**	kPa	-60.0 ~ -70.0	-35.0 (+0/-5)	Reduces bubble generation at the nozzle
External	COT Cabinet	Solvent 2 PCS (1,2) VAC U/L Solvent 2 PCS (1,2 VAC L/L	**-49.0** **-99.9**	kPa	---	-29.0 -99.0	Reduces bubble generation at the nozzle
External	COT Cabinet	DEV Sol 2 PCS (1,2,3) Drive	**0.25**	MPa	0.20 ~ 0.30	0.10 ~ 0.30	Static Pressure Setting
External	COT Cabinet	DEV Sol 2 PCS (1,2,3) Ejector Drive	**0.1 ~ 0.35**	MPa	---	0.1 ~ 0.35	Static Pressure Setting
External	COT Cabinet	DEV Sol 2 PCS (1,2,3) Fill Pressure	**0.1**	MPa	0.1 ~ 0.12	0.1 (+0.02/-0)	Dynamic Setting
External	COT Cabinet	PCS (1,2,3) VAC Setting Dev Sol. (1,2,3)	**-45.0**	kPa	-40.0 ~ -50.0	-55 (+0/-5)	Static Pressure Setting
External	COT Cabinet	PCS (1,2,3) VAC U/L Setting DEV (1,2,3) PCS (1,2,3) VAC L/L Setting DEV (1,2,3)	**-29.0** **-99.9**	kPa	---	-49.0 -99.0	Static Pressure Setting
External	COT Cabinet	FILTER VENT	**60**	ml/min	54 to 66	---	IFFS ENABLED TOOL CONFIGURATIONS
External	COT Cabinet	FILTER PURGE	**75**	ml/min	68 to 82	---	IFFS ENABLED TOOL CONFIGURATIONS
External	COT Cabinet	IFFS SOL. PCS (1,2,3) VAC Setting Sol. (1,2)	**-80.0**	kPa	-77.0 to -83.0	-80.0 (+/-3)	IFFS ENABLED TOOL CONFIGURATIONS
External	COT Cabinet	IFFS SOL.PCS (1,2,3) VAC U/L Setting Sol. (1,2) IFFS SOL.PCS (1,2,3) VAC L/L Setting Sol. (1,2)	**-75.0** **-85.0**	kPa	---	-75.0 -85.0	IFFS ENABLED TOOL CONFIGURATIONS
External	COT Cabinet	FILTER VENT	**60**	ml/min	54 to 66	---	IFFS ENABLED TOOL CONFIGURATIONS
External	COT Cabinet	FILTER PURGE	**75**	ml/min	68 to 82	---	IFFS ENABLED TOOL CONFIGURATIONS
External	COT Cabinet	IFFS DEV.2 PCS (1,2,3) VAC Setting Sol. (1,2)	**-80.0**	kPa	-77.0 to -83.0	-80.0 (+/-3)	IFFS ENABLED TOOL CONFIGURATIONS
External	COT Cabinet	IFFS DEV.2PCS (1,2,3) VAC U/L Setting Sol. (1,2) IFFS DEV.2PCS (1,2,3) VAC L/L Setting Sol. (1,2)	**-75.0** **-85.0**	kPa	---	-75.0 -85.0	IFFS ENABLED TOOL CONFIGURATIONS
External	COT Cabinet	IFFS Control box P_1 setting	**0.1**	MPa	0.08 ~ 0.12	Tool Specific	IFFS ENABLED TOOL CONFIGURATIONS Pressure necessary to achieve 100 ml/min with filter vent valve full open and filter blank installe
External	COT Cabinet	IFFS Control box P_2 setting	**0.14**	MPa	0.12 ~ 0.16	Tool Specific	IFFS ENABLED TOOL CONFIGURATIONS P_2 setting is 0.03 higher than P_1
External	COT Cabinet	IFFS Control box P_3 setting	**0.19**	MPa	0.17 ~ 0.21	Tool Specific	CRF ENABLED TOOL CONFIGURATIONS P_3 is 0.05 less than PCS drive pressure, (POS only) P_3 for both decks must be matched.
External	COT Cabinet	CRF Return Line	**60.0**	ml/min	54 to 66	---	CRF ENABLED TOOL CONFIGURATIONS
External	COT Cabinet	CRF Drain Line	**60.0**	ml/min	54 to 66	---	CRF ENABLED TOOL CONFIGURATIONS

Ultrasonic flowmeter setting for "Liquid Kind"	
CHEMICAL NAME	Flow meter Chemical TYPE
Solvent (POS, PGMEA, EL)	Solvent/Cyclohexane
DI Water	DIW
Developer Solution	Developer Solution/Developer Solution
LNR	Solvent/Other
LND	Solvent/Other

3. SYSTEM (SUB-FAB)

Chemical Cabinet Exhaust Setting for all Configurations

Tool Config	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
TAQ/TNQ	COT Cabinet	Exhaust Solvent (EA1)	**100**	Pa	15 to 325	100	TARGET CFM 70.6
	COT Cabinet	Exhaust Solvent (EA1) U/L Setting (EA1)	**350**	Pa	---	0	
	COT Cabinet	Exhaust Solvent (EA1) L/L Setting (EA1)	**10**	Pa	---	70	
	COT Cabinet	Exhaust Solvent (EA2)	**100**	Pa	15 to 325	100	TARGET CFM 70.6
	COT Cabinet	Exhaust Solvent (EA2) U/L Setting (EA2)	**350**	Pa	---	0	
	COT Cabinet	Exhaust Solvent (EA2) L/L Setting (EA2)	**10**	Pa	---	70	
	COT Cabinet	Exhaust HMDS (EA5)	**200**	Pa	15 to 325	200	TARGET CFM 14.1
	COT Cabinet	Exhaust HMDS U/L Setting (EA5)	**350**	Pa	---	0	
	COT Cabinet	Exhaust HMDS L/L Setting (EA5)	**10**	Pa	---	50	
	DEV Cabinet	DEV CAB Exhaust (EC1)	**25**	Pa	15 to 325	30	TARGET CFM 35.3
	DEV Cabinet	DEV CAB Exhaust U/L Setting (EC1)	**350**	Pa	---	0	
	DEV Cabinet	DEV CAB Exhaust L/L Setting (EC1)	**10**	Pa	---	5	
	DEV Cabinet	DEV CAB Exhaust (EC2)	**25**	Pa	15 to 325	30	TARGET CFM 17.7
	DEV Cabinet	DEV CAB Exhaust U/L Setting (EC2)	**350**	Pa	---	0	
	DEV Cabinet	DEV CAB Exhaust L/L Setting (EC2)	**10**	Pa	---	5	
TNE [NON-CE] TNE [CE] TNE [HVM]	COT Cabinet	Exhaust Solvent (EA1)	**125**	Pa	15 to 325	100	TARGET CFM 70.6
	COT Cabinet	Exhaust Solvent (EA1) U/L Setting (EA1)	**350**	Pa	---	0	
	COT Cabinet	Exhaust Solvent (EA1) L/L Setting (EA1)	**10**	Pa	---	70	
	COT Cabinet	Exhaust HMDS (EA5)	**150**	Pa	15 to 325	200	TARGET CFM 14.1
	COT Cabinet	Exhaust HMDS U/L Setting (EA5)	**350**	Pa	---	0	
	COT Cabinet	Exhaust HMDS L/L Setting (EA5)	**10**	Pa	---	50	
	DEV Cabinet	DEV CAB Exhaust (EC1)	**25**	Pa	15 to 325	30	TARGET CFM 35.3
	DEV Cabinet	DEV CAB Exhaust U/L Setting (EC1)	**350**	Pa	---	0	
	DEV Cabinet	DEV CAB Exhaust L/L Setting (EC1)	**10**	Pa	---	5	
	DEV Cabinet	DEV CAB Exhaust (EC2)	**20**	Pa	15 to 325	30	TARGET CFM 17.7
	DEV Cabinet	DEV CAB Exhaust U/L Setting (EC2)	**350**	Pa	---	0	
	DEV Cabinet	DEV CAB Exhaust L/L Setting (EC2)	**10**	Pa	---	5	
TNG / TBL / TBM	COT Cabinet	Exhaust Solvent (EA1)	**50**	Pa	15 to 325	100	TARGET CFM 14.1
	COT Cabinet	Exhaust Solvent (EA1) U/L Setting (EA1)	**350**	Pa	---	0	
	COT Cabinet	Exhaust Solvent (EA1) L/L Setting (EA1)	**10**	Pa	---	70	
	COT Cabinet	Exhaust HMDS (EA5)	**15**	Pa	5 to 100	200	TARGET CFM 14.1
	COT Cabinet	Exhaust HMDS U/L Setting (EA5)	**100**	Pa	---	0	
	COT Cabinet	Exhaust HMDS L/L Setting (EA5)	**5**	Pa	---	50	
	DEV Cabinet	DEV CAB Exhaust (EC1)	**50**	Pa	15 to 325	30	TARGET CFM 17.7
	DEV Cabinet	DEV CAB Exhaust U/L Setting (EC1)	**350**	Pa	---	0	
	DEV Cabinet	DEV CAB Exhaust L/L Setting (EC1)	**10**	Pa	---	5	
TAS/TAU/TNU/ TNK	COT Cabinet	Exhaust Solvent (EA1)	**50**	Pa	15 to 325	100	TARGET CFM 21.2
	COT Cabinet	Exhaust Solvent (EA1) U/L Setting (EA1)	**350**	Pa	---	0	
	COT Cabinet	Exhaust Solvent (EA1) L/L Setting (EA1)	**10**	Pa	---	70	
	COT Cabinet	Exhaust HMDS (EA5)	**15**	Pa	5 to 100	200	TARGET CFM 14.1
	COT Cabinet	Exhaust HMDS U/L Setting (EA5)	**100**	Pa	---	0	
	COT Cabinet	Exhaust HMDS L/L Setting (EA5)	**5**	Pa	---	50	
	DEV Cabinet	DEV CAB Exhaust (EC1)	**50**	Pa	15 to 325	30	TARGET CFM 21.2
	DEV Cabinet	DEV CAB Exhaust U/L Setting (EC1)	**350**	Pa	---	0	
	DEV Cabinet	DEV CAB Exhaust L/L Setting (EC1)	**10**	Pa	---	5	
TBC	COT Cabinet	Exhaust Solvent (EA1)	**100**	Pa	15 to 325	100	TARGET CFM 35.3
	COT Cabinet	Exhaust Solvent (EA1) U/L Setting (EA1)	**350**	Pa	---	0	
	COT Cabinet	Exhaust Solvent (EA1) L/L Setting (EA1)	**10**	Pa	---	70	
	COT Cabinet	Exhaust HMDS (EA5)	**150**	Pa	15 to 325	200	TARGET CFM 14.1
	COT Cabinet	Exhaust HMDS U/L Setting (EA5)	**350**	Pa	---	0	
	COT Cabinet	Exhaust HMDS L/L Setting (EA5)	**10**	Pa	---	50	
TBE	COT Cabinet	Exhaust Solvent (EA1)	**15**	Pa	5 to 100	100	TARGET CFM 14.1
	COT Cabinet	Exhaust Solvent (EA1) U/L Setting (EA1)	**100**	Pa	---	0	
	COT Cabinet	Exhaust Solvent (EA1) L/L Setting (EA1)	**5**	Pa	---	70	
	COT Cabinet	Exhaust HMDS (EA5)	**15**	Pa	5 to 100	200	TARGET CFM 14.1
	COT Cabinet	Exhaust HMDS U/L Setting (EA5)	**100**	Pa	---	0	
	COT Cabinet	Exhaust HMDS L/L Setting (EA5)	**5**	Pa	---	50	

3. SYSTEM (SUB-FAB)

STHC1

Location	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
External	STHC	STHC&CHILLER Installation Height	**110**	mm	105 ~ 115	110 ±5	
External	STHC	Primary Supply Power Voltage	**3Phases AC200 to 220**	V	+/-10%	+/-10%	
External	THC	Blower Inverter Setting Range	**Tool Specific**	Hz	30 ~ 60	30 ~ 60	
External	THC	Condensation Pressure (REF 1)	**1.5**	MPa	1.45 to 1.55	1.5 ±0.02	
External	THC	Evaporating Pressure (REF 1)	**0.45**	MPa	0.4 to 0.6	0.42 to 0.58	
External	THC	Condensation Pressure (REF 2)	**1.5**	MPa	1.45 to 1.55	1.5 ±0.02	
External	THC	Evaporating Pressure (REF 2)	**0.45**	MPa	0.4 to 0.6	0.42 to 0.50	
External	THC	Air volume warning value	**Adjustment value ±10%**	m3/min	---	Adjustment value ±10%	
External	THC	Cup Temperature Offset Value	**22.2**	degree	22.1 to 22.3	22.2±0.1C	
External	THC	Cup Humidity Offset Value	**40.7**	%	40.2 to 41.2	40.7±5%	
External	THC	Cup Temperature across all Cups	**0.2**	degree	---	0.2	
External	THC	Cup Humidity across all Cups	**1.0**	%	---	1.0	
External	THC	Utility Supply (DIW)	**0.1**	Mpa	0.08 to .12	0.08 ~ 0.12	Set this with Valve Closed
External	THC	Utility Supply (PCW)	**0.35**	Mpa	0.3 to 0.4	0.3 ~ 0.4	Not present on all tracks
External	THC	AIR Digital Pressure Gauge	**0.35**	MPa	0.3 to 0.4	0.35 ~ 0.50	Set at Dev Cabinet
External	THC	AIR Digital Pressure Gauge U/L Setting	**0.4**	MPa	---	0.4	
External	THC	AIR Digital Pressure Gauge L/L Setting	**0.25**	MPa	---	0.25	
External	CHILLER	HMDS Buffer Tank Flow Rate	**2.0**	L/min	1.5 to 2.5	>1.0LPM	
External	CHILLER	HMDS Buffer Tank Temperature	**22.0**	degree	21.5 to 22.5	21.5 to 22.5	
External	CHILLER	Pump Inverter Setting Range	**Tool Specific**	Hz	30 to 60	30 ~ 60	
External	CHILLER	Condensation Pressure	**1.5**	MPa	1.45 to 1.55	1.5 ±0.02	
External	CHILLER	Evaporating Pressure	**0.46**	MPa	0.43 to 0.49	0.43 to 0.49	

T/H 2 TNU ONLY

Location	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
External	STHC	STHC&CHILLER Installation Height	**110**	mm	105 ~ 115	110 ±5	
External	STHC	Primary Supply Power Voltage	**3Phases AC200 to 220**	V	+/-10%	+/-10%	
External	THC	Blower Inverter Setting Range	**Tool Specific**	Hz	30 ~ 60	30 ~ 60	
External	THC	Condensation Pressure	**1.5**	MPa	1.4 to 1.6	1.5 ±0.10	
External	THC	Evaporating Pressure	**0.45**	MPa	0.4 to 0.6	0.40 to 0.60	
External	THC2	Utility Supply (DIW)	**0.1**	Mpa	0.08 to .12	0.08 ~ 0.12	
External	THC2	Utility Supply (PCW)	**0.35**	Mpa	0.3 to 0.4	0.3 ~ 0.4	
External	THC2	AIR Digital Pressure Gauge	**0.35**	MPa	0.3 to 0.4	0.35 ~ 0.50	

STHC CHILLER FLOW RATE SETTING CHART

TAQ/TNQ

Location	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
External	CHILLER	~~Temperature Control Water Flow Rate (CH0) COT~~	**2.0**	L/min	1.9 to 2.1	2+/-0.1	4-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH1) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	5-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH2) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	6-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH3) CPL-i	**4.0**	L/min	3.9 to 4.1	4+/-0.1	8-21 CPL Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH4-1) SRS	**2.0**	L/min	1.9 to 2.1	2+/-0.1	2-16 CPL Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH4-2) PIR	**2.0**	L/min	1.9 to 2.1	2+/-0.1	
External	CHILLER	Temperature Control Water Flow Rate (CH4-3) Cool Arm	**5.2**	L/min	5.1 to 5.3	5.2+/-0.1	
External	CHILLER	Temperature Control Water Flow Rate (CH4-4) S-CPL	**18.0**	L/min	17.5 to 18.5	18+/-0.5	
External	CHILLER	Temperature Control Water Flow Rate (CH4-6) M-CPL	**15.0**	L/min	14.5 to 15.5	15+/-0.5	
External	CHILLER	Temperature Control Water Flow Rate (CH5-1) CPL-D	**9.0**	L/min	8.9 to 9.1	9+/-0.1	3-41 CPLModule = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH5-2-2) DEV M/F *	**4.0**	L/min	3.9 to 4.1	4+/-0.1	
External	CHILLER	Temperature Control Water Flow Rate (CH5-2-1) DEV (Nozzle Lower)	**2.0**	L/min	1.9 to 2.1	2+/-0.1	
External	CHILLER	Temperature Control Water Flow Rate (CH5-2-3) DEV (Nozzle Upper)	**2.0**	L/min	1.9 to 2.1	2+/-0.1	
External	CHILLER	Utility Supply (PCW)	**0.35**	MPa	0.3 to 0.4	0.3 ~ 0.4	

*=472 ONLY Developer for NTD Chemical

3. SYSTEM (SUB-FAB)

STHC CHILLER FLOW RATE SETTING CHART

NON-CE TNE

Location	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
External	CHILLER	Temperature Control Water Flow Rate (CH0) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	4-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH1) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	5-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH2) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	6-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH3) CPL	**4.0**	L/min	3.9 to 4.1	4+/-0.1	7-11 CPL Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH4-1) Bypass	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH4-2) Bypass	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH4-3) Cool Arm	**6.6***	L/min	6.5 to 6.7	6.6+/-0.1	2-16 CPL Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH4-4) S-CPL	**18.0***	L/min	17.5 to 18.5	18+/-0.5	
External	CHILLER	Temperature Control Water Flow Rate (CH4-6) CPL-M	**15.0**	L/min	14.5 to 15.5	15+/-0.5	
External	CHILLER	Temperature Control Water Flow Rate (CH5-1) CPL-D	**9.0**	L/min	8.9 to 9.1	9+/-0.1	3-41 CPLModule = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH5-2) DEV	**8.0**	L/min	7.9 to 8.1	8+/-0.1	
External	CHILLER	Utility Supply (PCW)	**0.35**	MPa	0.3 to 0.4	0.3 ~ 0.4	

*For HVM conversion tools
Channel 4-3 = 4.2L/min
Channel 4-4 = 9.0L/min

NON-CE TNE with High Throughput Upgrade

Location	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
External	CHILLER	Temperature Control Water Flow Rate (CH0) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	4-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH1) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	5-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH2) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	6-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH3) CPL-i	**4.0**	L/min	3.9 to 4.1	4+/-0.1	7-11 CPL Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH4-1) Bypass	**2.0**	L/min	1.9 to 2.1	2+/-0.1	BYPASS
External	CHILLER	Temperature Control Water Flow Rate (CH4-2) Bypass	**2.0**	L/min	1.9 to 2.1	2+/-0.1	BYPASS
External	CHILLER	Temperature Control Water Flow Rate (CH4-3) Cool Arm	**6.6**	L/min	6.5 to 6.7	6.6+/-0.1	7-33 CPL Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH4-4) S-CPL	**21.0**	L/min	20.5 to 21.5	21+/-0.5	
External	CHILLER	Temperature Control Water Flow Rate (CH4-6) CPL-M	**15.0**	L/min	14.5 to 15.5	15+/-0.5	
External	CHILLER	Temperature Control Water Flow Rate (CH5-1) DEV	**8.0**	L/min	7.9 to 8.1	8+/-0.1	2-15 SCPL = Use Posint Control
External	CHILLER	Temperature Control Water Flow Rate (CH5-2-1) CPL-M 2-15	**3.0**	L/min	2.9 to 3.1	3+/-0.1	
External	CHILLER	Temperature Control Water Flow Rate (CH5-2-2) CPL-D	**9.0**	L/min	8.9 to 9.1	9+/-0.1	
External	CHILLER	Utility Supply (PCW)	**0.35**	MPa	0.3 to 0.4	0.3 ~ 0.4	

3. SYSTEM (SUB-FAB)

STHC CHILLER FLOW RATE SETTING CHART

CE TNE

Location	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
External	CHILLER	Temperature Control Water Flow Rate (CH0) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	4-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH1) Bypass	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH2) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	6-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH3) CPL	**4.0**	L/min	3.9 to 4.1	4+/-0.1	7-11 CPL Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH4-1) Bypass	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH4-2) Bypass	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH4-3) Cool Arm	**6.6**	L/min	6.5 to 6.7	6.6+/-0.1	2-23 CPL Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH4-4) S-CPL	**9.0**	L/min	8.5 to 9.5	9+/-0.5	
External	CHILLER	Temperature Control Water Flow Rate (CH4-6) M-CPL	**9.0**	L/min	8.5 to 9.5	9+/-0.5	
External	CHILLER	Temperature Control Water Flow Rate (CH5-1) CPL-D	**9.0**	L/min	8.9 to 9.1	9+/-0.1	3-41 CPLModule = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH5-2) DEV	**8.0**	L/min	7.9 to 8.1	8+/-0.1	
External	CHILLER	Utility Supply (PCW)	**0.35**	MPa	0.3 to 0.4	0.3 ~ 0.4	

CE TNE with High Throughput Upgrade

Location	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
External	CHILLER	Temperature Control Water Flow Rate (CH0) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	4-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH1) Bypass	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH2) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	6-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH3) CPL -i	**4.0**	L/min	3.9 to 4.1	4+/-0.1	7-11 CPL Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH4-1) Bypass	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH4-2) Bypass	**13.0**	L/min	12.5 to 13.5	13+/-0.5	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH4-3) Cool Arm	**6.6**	L/min	6.5 to 6.7	6.6+/-0.1	7-43 CPL Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH4-4) S-CPL	**12.0**	L/min	11.5 to 12.5	12+/-0.5	
External	CHILLER	Temperature Control Water Flow Rate (CH4-6) M-CPL	**9.0**	L/min	8.5 to 9.5	9+/-0.5	
External	CHILLER	Temperature Control Water Flow Rate (CH5-1) DEV	**8.0**	L/min	7.9 to 8.1	8+/-0.1	2-15 SCPL = Use Posint Control
External	CHILLER	Temperature Control Water Flow Rate (CH5-2-1) CPL-M 2-15	**3.0**	L/min	2.9 to 3.1	3+/-0.1	
External	CHILLER	Temperature Control Water Flow Rate (CH5-2-2) CPL - D	**9.0**	L/min	8.9 to 9.1	9+/-0.1	
External	CHILLER	Utility Supply (PCW)	**0.35**	MPa	0.3 to 0.4	0.3 ~ 0.4	

3. SYSTEM (SUB-FAB)

STHC CHILLER FLOW RATE SETTING CHART

D5 Reserved HVM TNE

Location	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
External	CHILLER	Temperature Control Water Flow Rate (CH0) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	4-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH1) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	5-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH2) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	6-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH3) CPL	**4.0**	L/min	3.9 to 4.1	4+/-0.1	7-11 CPL Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH4-1) Bypass	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH4-2) Bypass	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH4-3) Cool Arm	**5.2**	L/min	5.1 to 5.3	5.2+/-0.1	2-16 CPL Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH4-4) S-CPL	**18.0**	L/min	17.5 to 18.5	18+/-0.5	
External	CHILLER	Temperature Control Water Flow Rate (CH4-6) M-CPL	**15.0**	L/min	14.5 to 15.5	15+/-0.5	
External	CHILLER	Temperature Control Water Flow Rate (CH5-1) CPL-D	**9.0**	L/min	8.9 to 9.1	9+/-0.1	3-41 CPLModule = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH5-2) DEV	**8.0**	L/min	7.9 to 8.1	8+/-0.1	
External	CHILLER	Utility Supply (PCW)	**0.35**	MPa	0.3 to 0.4	0.3 ~ 0.4	

D5 Reserved HVM TNE with High Throughput Upgrade

Location	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
External	CHILLER	Temperature Control Water Flow Rate (CH0) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	4-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH1) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	5-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH2) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	6-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH3) CPL	**4.0**	L/min	3.9 to 4.1	4+/-0.1	7-11 CPL Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH4-1) Bypass	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH4-2) Bypass	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH4-3) Cool Arm	**5.2**	L/min	5.1 to 5.3	5.2+/-0.1	7-33 CPL Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH4-4) S-CPL	**21.0**	L/min	20.5 to 21.5	21+/-0.5	
External	CHILLER	Temperature Control Water Flow Rate (CH4-6) M-CPL	**15.0**	L/min	14.5 to 15.5	15+/-0.5	
External	CHILLER	Temperature Control Water Flow Rate (CH5-1) DEV	**8.0**	L/min	7.9 to 8.1	8+/-0.1	2-15 CPLModule = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH5-2-1) CPL-M 2-15	**3.0**	L/min	2.9 to 3.1	3+/-0.1	
External	CHILLER	Temperature Control Water Flow Rate (CH5-2-2) CPL - D	**9.0**	L/min	8.9 to 9.1	9+/-0.1	
External	CHILLER	Utility Supply (PCW)	**0.35**	MPa	0.3 to 0.4	0.3 ~ 0.4	

3. SYSTEM (SUB-FAB)

STHC CHILLER FLOW RATE SETTING CHART

D5 Blanked HVM TNE

Location	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
External	CHILLER	Temperature Control Water Flow Rate (CH0) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	4-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH1) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH2) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	6-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH3) CPL	**4.0**	L/min	3.9 to 4.1	4+/-0.1	7-11 CPL Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH4-1) Bypass	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH4-2) Bypass	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH4-3) Cool Arm	**4.6**	L/min	4.5 to 4.7	4.6+/-0.1	2-16 CPL Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH4-4) S-CPL	**12.0**	L/min	11.5 to 12.5	12+/-0.5	
External	CHILLER	Temperature Control Water Flow Rate (CH4-6) M-CPL	**15.0**	L/min	14.5 to 15.5	15+/-0.5	
External	CHILLER	Temperature Control Water Flow Rate (CH5-1) CPL-D	**9.0**	L/min	8.9 to 9.1	9+/-0.1	3-41 CPLModule = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH5-2) DEV	**8.0**	L/min	7.9 to 8.1	8+/-0.1	
External	CHILLER	Utility Supply (PCW)	**0.35**	MPa	0.3 to 0.4	0.3 ~ 0.4	

D5 Blanked HVM TNE with High Throughput Upgrade

Location	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
External	CHILLER	Temperature Control Water Flow Rate (CH0) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	4-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH1) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH2) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	6-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH3) CPL	**4.0**	L/min	3.9 to 4.1	4+/-0.1	7-11 CPL Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH4-1) Bypass	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH4-2) Bypass	**9.0**	L/min	8.5 to 9.5	9+/-0.5	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH4-3) Cool Arm	**4.6**	L/min	4.5 to 4.7	4.6+/-0.1	7-43 CPL Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH4-4) S-CPL	**12.0**	L/min	11.5 to 12.5	12+/-0.5	
External	CHILLER	Temperature Control Water Flow Rate (CH4-6) M-CPL	**15.0**	L/min	14.5 to 15.5	15+/-0.5	
External	CHILLER	Temperature Control Water Flow Rate (CH5-1) DEV	**8.0**	L/min	7.9 to 8.1	8+/-0.1	2-15 CPLModule = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH5-2-1) CPL-M 2-15	**3.0**	L/min	2.9 to 3.1	3+/-0.1	
External	CHILLER	Temperature Control Water Flow Rate (CH5-2-2) CPL - D	**9.0**	L/min	8.9 to 9.1	9+/-0.1	
External	CHILLER	Utility Supply (PCW)	**0.35**	MPa	0.3 to 0.4	0.3 ~ 0.4	

3. SYSTEM (SUB-FAB)

STHC CHILLER FLOW RATE SETTING CHART

D5/D6 Blanked HVM TNE

Location	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
External	CHILLER	Temperature Control Water Flow Rate (CH0) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	4-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH1) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH2) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH3) CPL	**4.0**	L/min	3.9 to 4.1	4+/-0.1	7-11 CPL Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH4-1) Bypass	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH4-2) Bypass	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH4-3) Cool Arm	**3.6**	L/min	3.5 to 3.7	3.6+/-0.1	2-23 CPL Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH4-4) S-CPL	**9.0**	L/min	8.5 to 9.5	9+/-0.5	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH4-6) M-CPL	**9.0**	L/min	8.5 to 9.5	9+/-0.5	2-23 CPL Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH5-1) CPL-D	**9.0**	L/min	8.9 to 9.1	9+/-0.1	3-41 CPLModule = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH5-2) DEV	**8.0**	L/min	7.9 to 8.1	8+/-0.1	
External	CHILLER	Utility Supply (PCW)	**0.35**	MPa	0.3 to 0.4	0.3 ~ 0.4	

D5/D6 Blanked HVM TNE with High Throughput Upgrade

Location	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
External	CHILLER	Temperature Control Water Flow Rate (CH0) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	4-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH1) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH2) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	6-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH3) CPL	**4.0**	L/min	3.9 to 4.1	4+/-0.1	7-11 CPL Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH4-1) Bypass	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH4-2) Bypass	**9.0**	L/min	8.5 to 9.5	9+/-0.5	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH4-3) Cool Arm	**4.6**	L/min	4.5 to 4.7	4.6+/-0.1	7-43 CPL Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH4-4) S-CPL	**12.0**	L/min	11.5 to 12.5	12+/-0.5	
External	CHILLER	Temperature Control Water Flow Rate (CH4-6) M-CPL	**15.0**	L/min	14.5 to 15.5	15+/-0.5	
External	CHILLER	Temperature Control Water Flow Rate (CH5-1) DEV	**8.0**	L/min	7.9 to 8.1	8+/-0.1	2-15 CPLModule = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH5-2-1) CPL-M 2-15	**3.0**	L/min	2.9 to 3.1	3+/-0.1	
External	CHILLER	Temperature Control Water Flow Rate (CH5-2-2) CPL - D	**9.0**	L/min	8.9 to 9.1	9+/-0.1	
External	CHILLER	Utility Supply (PCW)	**0.35**	MPa	0.3 to 0.4	0.3 ~ 0.4	

3. SYSTEM (SUB-FAB)

STHC CHILLER FLOW RATE SETTING CHART

TNG

Location	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
External	CHILLER	Temperature Control Water Flow Rate (CH0) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	4-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH1) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH2) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	6-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH3) CPL-i	**4.0**	L/min	3.9 to 4.1	4+/-0.1	7-11 CPL Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH4-1)	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH4-2)	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH4-3) Cool Arm	**6.6**	L/min	6.5 to 6.7	6.6+/-0.1	2-23 CPL Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH4-4) S-CPL	**9.0**	L/min	8.5 to 9.5	9+/-0.5	
External	CHILLER	Temperature Control Water Flow Rate (CH4-6) M-CPL	**9.0**	L/min	8.5 to 9.5	9+/-0.5	
External	CHILLER	Temperature Control Water Flow Rate (CH5-1) CPL-D	**9.0**	L/min	8.9 to 9.1	9+/-0.1	3-41 CPLModule = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH5-2) DEV	**8.0**	L/min	7.9 to 8.1	8+/-0.1	
External	CHILLER	Utility Supply (PCW)	**0.35**	MPa	0.3 to 0.4	0.3 ~ 0.4	

TNG with High Throughput Upgrade and TBM

Location	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
External	CHILLER	Temperature Control Water Flow Rate (CH0) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	4-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH1) Bypass	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH2) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	6-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH3) CPL -i	**4.0**	L/min	3.9 to 4.1	4+/-0.1	7-11 CPL Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH4-1) Bypass	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH4-2) Bypass	**13.0**	L/min	12.5 to 13.5	13+/-0.5	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH4-3) Cool Arm	**6.6**	L/min	6.5 to 6.7	6.6+/-0.1	7-43 CPL Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH4-4) S-CPL	**12.0**	L/min	11.5 to 12.5	12+/-0.5	
External	CHILLER	Temperature Control Water Flow Rate (CH4-6) M-CPL	**9.0**	L/min	8.5 to 9.5	9+/-0.5	
External	CHILLER	Temperature Control Water Flow Rate (CH5-1) DEV	**8.0**	L/min	7.9 to 8.1	8+/-0.1	2-15 SCPL = Use Posint Control
External	CHILLER	Temperature Control Water Flow Rate (CH5-2-1) CPL-M 2-15	**3.0**	L/min	2.9 to 3.1	3+/-0.1	
External	CHILLER	Temperature Control Water Flow Rate (CH5-2-2) CPL - D	**9.0**	L/min	8.9 to 9.1	9+/-0.1	
External	CHILLER	Utility Supply (PCW)	**0.35**	MPa	0.3 to 0.4	0.3 ~ 0.4	

3. SYSTEM (SUB-FAB)

STHC CHILLER FLOW RATE SETTING CHART

TBC/TBE

Location	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
External	CHILLER	Temperature Control Water Flow Rate (CH0) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH1) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	5-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH2) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	6-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH3)	**4.0**	L/min	3.9 to 4.1	4+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH4-1)	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH4-2)	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH4-3) Cool Arm	**5.2**	L/min	5.1 to 5.3	5.2+/-0.1	7-33 CPL Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH4-4) S-CPL	**18.0**	L/min	17.5 to 18.5	18+/-0.5	
External	CHILLER	Temperature Control Water Flow Rate (CH4-6) M-CPL	**15.0**	L/min	14.5 to 15.5	15+/-0.5	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH5-1)	**9.0**	L/min	8.9 to 9.1	9+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH5-2-1)	**4.0**	L/min	3.9 to 4.1	4+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH5-2-2)	**4.0**	L/min	3.9 to 4.1	4+/-0.1	**BYPASS**
External	CHILLER	Utility Supply (PCW)	**0.35**	MPa	0.3 to 0.4	0.3 ~ 0.4	

TBE_na

Location	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
External	CHILLER	Temperature Control Water Flow Rate (CH0) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH1) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	5-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH2) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	6-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH3)	**4.0**	L/min	3.9 to 4.1	4+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH4-1)	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH4-2)	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH4-3) Cool Arm	**2.8**	L/min	2.7 to 2.9	2.8+/-0.1	7-33 CPL Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH4-4) S-CPL	**18.0**	L/min	17.5 to 18.5	18+/-0.5	
External	CHILLER	Temperature Control Water Flow Rate (CH4-6) M-CPL	**15.0**	L/min	14.5 to 15.5	15+/-0.5	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH5-1)	**9.0**	L/min	8.9 to 9.1	9+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH5-2-1)	**4.0**	L/min	3.9 to 4.1	4+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH5-2-2)	**4.0**	L/min	3.9 to 4.1	4+/-0.1	**BYPASS**
External	CHILLER	Utility Supply (PCW)	**0.35**	MPa	0.3 to 0.4	0.3 ~ 0.4	

3. SYSTEM (SUB-FAB)

STHC CHILLER FLOW RATE SETTING CHART

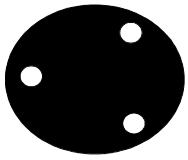
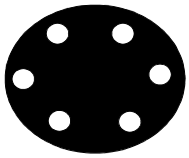
TAS/TAU/TNU/TNK

Location	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
External	CHILLER	Temperature Control Water Flow Rate (CH0) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	4-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH1) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH2) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	6-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH3) CPL-i	**4.0**	L/min	3.9 to 4.1	4+/-0.1	8-21 CPL Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH4-1) SRS	**2.0**	L/min	1.9 to 2.1	2+/-0.1	2-23 CPL Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH4-2) PIR	**2.0**	L/min	1.9 to 2.1	2+/-0.1	
External	CHILLER	Temperature Control Water Flow Rate (CH4-3) Cool Arm	**8.4**	L/min	8.3. to 8.5	8.4+/-0.1	
External	CHILLER	Temperature Control Water Flow Rate (CH4-4) S-CPL	**9.0**	L/min	8.5 to 9.5	9+/-0.1	
External	CHILLER	Temperature Control Water Flow Rate (CH4-6) M-CPL	**9.0**	L/min	8.5 to 9.5	9+/-0.1	
External	CHILLER	Temperature Control Water Flow Rate (CH5-1) CPL-D	**9.0**	L/min	8.9 to 9.1	9+/-0.1	3-41 CPLModule = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH5-2-1) DEV	**6.0**	L/min	5.9 to 6.1	6+/-0.2	
External	CHILLER	Temperature Control Water Flow Rate (CH5-2-2) DEV	**6.0**	L/min	5.9 to 6.2	6+/-0.2	
External	CHILLER	Utility Supply (PCW)	**0.35**	MPa	0.3 to 0.4	0.3 ~ 0.4	

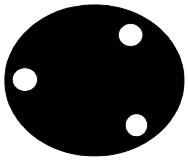
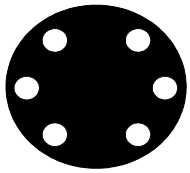
TBL

Location	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
External	CHILLER	Temperature Control Water Flow Rate (CH0) Bypass	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH1) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	5-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH2) COT	**2.0**	L/min	1.9 to 2.1	2+/-0.1	6-0 COT Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH3) CPL-i	**4.0**	L/min	3.9 to 4.1	4+/-0.1	7-11 CPL Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH4-1) Bypass	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH4-2) Bypass	**2.0**	L/min	1.9 to 2.1	2+/-0.1	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH4-3) Cool Arm	**6.2**	L/min	6.1 to 6.3	6.2+/-0.1	7-33 SCPL Module = Use Point Control
External	CHILLER	Temperature Control Water Flow Rate (CH4-4) S-CPL	**18.0**	L/min	17.5 to 18.5	18+/-0.5	
External	CHILLER	Temperature Control Water Flow Rate (CH4-6) Bypass	**14.0**	L/min	13.5 to 14.5	14+/-0.5	**BYPASS**
External	CHILLER	Temperature Control Water Flow Rate (CH5-1) DEV	**8.0**	L/min	7.9 to 8.1	8+/-0.1	2-15 SCPL = Use Posint Control
External	CHILLER	Temperature Control Water Flow Rate (CH5-2-1) CPL-M 2-15	**3.0**	L/min	2.9 to 3.1	3+/-0.1	
External	CHILLER	Temperature Control Water Flow Rate (CH5-2-2) CPL-D	**9.0**	L/min	8.9 to 9.1	9+/-0.1	
External	CHILLER	Utility Supply (PCW)	**0.35**	MPa	0.3 to 0.4	0.3 ~ 0.4	

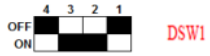
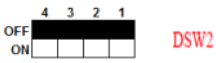
4. DEV

Block	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
PRB	DEV/NTD	Chuck Vac	**-75**	kPa	-71.0 ~ -79.0	-75.0 +/-0.4	Static - Keep 71kPa or higher after 1 minute, with the original pressure set at 75kPa. Fluctuation at Wafer spin start should be within 0.4kPa.
PRB	DEV/NTD	Chuck Vac U/L (Sunx-DP-100) Chuck Vac L/L (Sunx-DP-100)	**-45.0** **-99.9**	kPa	---	-45.0 -99.9	
PRB	DEV/NTD	3-PIN Level	**0**	degree	0.06 ~ -0.06	0.06 ~ -0.06	
PRB	DEV/NTD	Chuck Level	**0**	degree	0.06 ~ -0.06	0.06 ~ -0.06	
PRB	DEV/NTD	3-PIN Height - Up	**45**	mm	---	45	From the chuck to the top surface of the 3-Pi
PRB	DEV/NTD	3-PIN Height - Down	**-10**	mm	---	-10	From the chuck to the top surface of the 3-Pi
PRB	DEV/NTD	3-PIN Up	**N/A***	sec	---	1.5	*Controlled by motor. Nominal timing is 1.5
PRB	DEV/NTD	3-PIN Down	**N/A***	sec	---	1.5	*Controlled by motor. Nominal timing is 1.5
PRB	DEV/NTD	SHUTTER OPEN SHUTTER CLOSED	**0.9** **0.9**	sec	0.8 ~ 1.0	0.9 0.9	Set by Sub-Op display
PRB	DEV/NTD	Auto Damper OPEN Auto Damper CLOSED	**0.4** **0.4**	sec	0.3 - 0.5	0.4 0.4	Set by Sub-Op display
PRB	DEV/NTD	RINSE MODULE-Arm UP RINSE MODULE-Arm DOWN	**0.9** **0.9**	sec	0.8 ~ 1.0	0.9 0.9	Set by Sub-Op display [Adjust @ dispense position]
PRB	DEV/NTD	Cup Exhaust Open	**8**	Pa	7 ~ 9	8 (+/-1)	Layer is checked with all modules Cup up and then execute auto damper
		Cup Exhaust Closed	**45**	Pa	40 ~ 50	45 (+/-5)	
PRB	DEV/NTD	Cup EXH U/L Setting (Nagano Keiki)	**85**	Pa	---	85	
		Cup EXH L/L Setting (Nagano Keiki)	**1**	Pa	---	1	
PRB	DEV	Knife Edge Height	**-1.0**	mm	-0.8 to -1.2	-1+/-0.2	Use Digital cup height JIG 3 points of measurement, gauge doesn't move during Cup UP/DOWN [Torque 75cn*m] Check current Torque Do
PRB	NTD	Middle Cup Height	**2.8**	mm	2.6 to 3.0	2.8+/-0.5	Use Digital cup height JIG NTD with IC cup [Torque 75cn*m] Check current Torque Do
PRB	DEV/NTD	Cup Height Range Value	**0.2**	mm	--	--	Applies to the 3 adjustments pts. on the base cup. 
PRB	DEV/NTD	Cup Height Range Value	**0.5**	mm	--	--	Applies to the 6 measurements pts. 
PRB	DEV	SUS Ring Up	**28**	mm	26 to 30	28+/-2	Measured from the bottom of the SUS Ring to the top of the White middle ring.
PRB	DEV	SUS Ring Down	**3**	mm	1 to 5	3+/-2	Measured from the bottom of the SUS Ring to the top of the White middle ring.
PRB	DEV	Upper Cup and Nozzle Arm Gap	**>1**	mm	>1	>1	To be measured at the bottom of the nozzle and top of the upper cup Arm is positioned at chuck center
PRB	DEV	SUS Ring and Under Cup Gap Spacer	**0.5**	mm	0.5	0.5	Checked around the entire area of the Cup.
PRB	DEV	GP/MGP Nozzle Height	**12.6**	mm	12.1 to 13.1	12.6+/-0.5	Set by using PRO-V set up tool
PRB	DEV	MGP sub DEV	**20.0**	mm	19.5 ~ 20.5	20.0+/-0.5	The setting is information only The height set up by MGP nozzle heigh
PRB	DEV	MGP sub DIW	**20.0**	mm	19.5 ~ 20.5	20.0+/-0.5	The setting is information only The height set up by MGP nozzle heigh
PRB	NTD	NTD Nozzle Height	**16**	mm	14.5 to 16.5	+0.5/-1.5	Measure from Tip of nozzle to wafer surface
PRB	NTD	NTD Rinse Nozzle Height	**16**	mm	14.5 to 16.5	+0.5/-1.5	NTD Rinse Nozzle height as "informational only" since the arm is calibrated with the NTD Nozzle
PRB	DEV	LD Nozzle Height	**2**	mm	1.8 ~ 2.2	1.0+/-0.2	Measured at 5 Points using spacer
PRB	DEV	ADR N2 Nozzle Height	**25**	mm	23.5 ~ 25.5	25+0.5/-1.5	The setting is information only The height set up by ADR Rinse nozzle heigh
PRB	DEV	ADR-Rinse Nozzle Height	**12**	mm	10.5 ~ 12.5	12+0.5/-1.5	The setting is informal only on XDR-equipped tools ADR Rinse enabled tool set ADR rinse nozzle by using PRO-V set up tool
PRB	DEV	XDR N2 Nozzle Height	**3**	mm	2.8 ~ 3.2	3+0.2	XDR enabled tool set XDR N2 nozzle height by using PRO-V set up tool
PRB	DEV	XDR-Rinse Nozzle Height	**12**	mm	11.5 ~ 12.5	12+/-0.5	The setting is information only The height set up by XDR N2 nozzle heigh
PRB	DEV	Back Rinse Nozzle Positior	**80**	mm	78 to 82	φ160+/-5	Dispense stream hits glass wafer 80 mm from center of the chuck.
PRB	DEV	Outer Cup UP Outer Cup Down	**0.9** **0.9**	sec	0.8 ~ 1.0	0.9 0.9	Set by Sub-Op display
PRB	DEV	MGP Nozzle Center Position	**Center = Chuck Center**	mm	---	Center = Chuck Center	Set by using PRO-V set up tool
PRB	DEV	DEV SUB	**Center = Chuck Center**	mm	---	Center = Chuck Center	Set by using PRO-V set up tool
PRB	DEV	DIW SUB	**Center = Chuck Center**	mm	---	Center = Chuck Center	Set by using PRO-V set up tool
PRB	DEV	LD Nozzle Center Position	**Center = Chuck Center**	mm	---	Center = Chuck Center	
PRB	DEV	Rinse Nozzle Center Position	**LD Center = Chuck Center**	mm	---	LD Center = Chuck Center	Set by using PRO-V set up tool
PRB	DEV	ADR N2 Nozzle Center Position	**ADR Center = -15**	mm	---	ADR Center = -15	
PRB	DEV	ADR Nozzle Center Position	**Center = Chuck Center**	mm	---	Center = Chuck Center	Set by using PRO-V set up tool [Set value is based on ADR dispense]

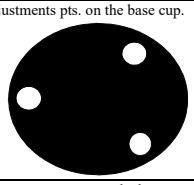
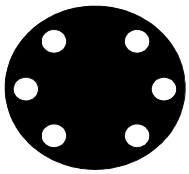
5. COT / BCT

Block	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
PRB	COT/BCT	Chuck Vac	**-75**	kPa	-71.0 ~ -79.0	-75.0 +/-0.4	Static Setting - Keep 71kPa or higher after 1 minute, with the original pressure set at 75kPa. Fluctuation at Wafer spin start should be within 0.4kPa.
PRB	COT/BCT	Chuck Vac U/L (Sunx-DP-100) Chuck Vac L/L (Sunx-DP-100)	**-45.0** **-99.9**	kPa	---	-45.0 -99.9	
PRB	COT/BCT	3-PIN Level	**0**	degree	0.06 ~ -0.06	0.06 ~ -0.06	
PRB	COT/BCT	Chuck Level	**0**	degree	0.06 ~ -0.06	0.06 ~ -0.06	
PRB	COT/BCT	3-PIN Height - Up	**45**	mm	---	45	From the chuck to the top surface of the 3-Pin
PRB	COT/BCT	3-PIN Height - Down	**-10**	mm	---	-10	From the chuck to the top surface of the 3-Pin
PRB	COT/BCT	3-PIN Up	**N/A***	sec	---	1.5	*Controlled by motor. Nominal timing is 1.0s
PRB	COT/BCT	3-PIN Down	**N/A***	sec	---	1.5	*Controlled by motor. Nominal timing is 1.0s
PRB	COT/BCT	Overflow Sensor Height	**77**	mm	76 ~ 78	77+/-1	Cup Exhaust Overflow Sensor
PRB	COT	Middle Cup Height	Resist = 3.1	mm	Resist = 2.6 ~ 3.6	2.8 +/-0.5	Average of 6 measurements with digital cup height jig. COT Spinner uses PV Cup. [Torque 75cn*m] Check current Torque Doc. Actual reading will be 2.3mm/2.0mm from the TOP of the wafer to the top of the middle cup.
PRB	COT	Knife Edge Height	Resist = -1.5	mm	Resist = -1.0 ~ -2.0	-1.6 +/-0.5	Average of 6 measurements with digital cup height jigCOT Spinner uses PV Cup [Torque 75cn*m] Check current Torque Doc The setting is reference only, cup is set up by Middle Cup height.
PRB	BCT BARC	Knife Edge Height	**-2.5**	mm	-2.3 to -2.7	-2.5+/-0.5	Use Digital cup height JIG BCT Spinner for BARC tools uses TCT Cup withsmooth upper cup. [Torque 75cn*m] Check current Torque Doc Measured from the bottom of the wafer to the top of the INNER cup
PRB	COT/BCT	Cup Height Range Value	**0.2**	mm	--	--	Applies to the 3 adjustments pts. on the base cup. 
PRB	COT/BCT	Cup Height Range Value	**0.5**	mm	--	--	Applies to the 6 measurements pts.on the base cup. 
PRB	COT/BCT	ARRC Nozzle X Centering Value	**0.0**	mm	-0.08 to 0.08	0+/-0.08	ARRC ONLY
PRB	COT/BCT	ARRC Nozzle Y Centering Value	**0.0**	mm	0	0	ARRC ONLY--->Field data Cup 1 to Cup 4 use 0 +/-0.05
PRB	COT/BCT	Resist / RRC Center Nozzle Height	**5**	mm	4.5 to 5.5	5 +/-0.5	Measured from top of wafer surface on chuck
PRB	COT/BCT	Distance from Resist Nozzle to RRC	**-9**	mm	---	-9	
PRB	COT/BCT	EBR Height Position	**1**	mm	0.8 ~ 1.2	1+/-0.2	Set by using PRO-V set up tool
PRB	COT/BCT	Resist Nozzle Height Home Position	**6.5**	mm	6.0 ~ 7.0	4.5+/-0.5	For DRY / IMM tools
PRB	COT/BCT	Resist Nozzle Height Home Position	**4.5**	mm	4.0 ~ 5.0	4.5+/-0.5	For BARC tools
PRB	COT/BCT	Back Rinse Nozzle Position	**80**	mm	78 to 82	φ160+/-5	Dispense stream hits glass wafer 80 mm from center of the
PRB	COT/BCT	Shutter OPEN	**0.9**	sec	0.8 ~1.0	0.9	Set by Sub-Op display
PRB	COT/BCT	COT E.B.R. MODULE-Arm UP	**0.9**	sec	0.8 ~1.0	0.9	Set by Sub-Op display
PRB	COT/BCT	Auto Damper OPEN	**0.4**	sec	0.3 - 0.5	0.4	Set by Sub-Op display
PRB	COT/BCT	Additional Auto Damper OPEN	**0.4**	sec	0.3 - 0.5	0.4	Set by Sub-Op display
PRB	COT/BCT	Cup Change UP	**3.0**	sec	2.0 ~ 4.0	3.0+/-0.2	Set by Stop Watch
PRB	COT/BCT	Resist Center Position	**Center =**	mm	Center +/-0.2	Center =	Set by wafer flow dispense check
PRB	COT/BCT	RRC Center Position	**Center =**	mm	Center +/-0.3	Center =	
PRB	COT/BCT	EBR Cut Width	**Cut Value**	mm	Cut Value +/-0.1	Cut Value +/-0.1	
PRB	COT/BCT	EBR Nozzle Angle	**30**	degree	---	30	Set by HW (NO ADJ)

5. COT / BCT

Block	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
PRB	COT TBL/TNE/TNG/ TBM	Cup Exhaust Open	**20**	Pa	15~ 25	30	Checked in idle state when the Add. Auto damper is "OPEN" and each cup damper is set to "MODULE"
		Cup Exhaust Closed	**95**	Pa	90 ~ 100	95	Check by setting Add. Auto damper to "CLOSED" and auto damper for each module to "CUP"
PRB	COT TBL/TNE/TNG/ TBM	Cup EXH U/L Setting (Nagano Keiki)	**140**	Pa	---	140	
		Cup EXH L/L Setting (Nagano Keiki)	**13**	Pa	---	23	
PRB	COT/BCT	Cup Exhaust Open	**40**	Pa	35~ 45	30	Checked in idle state when the Add. Auto damper is "OPEN" and each cup damper is set to "MODULE"
		Cup Exhaust Closed	**95**	Pa	90 ~ 100	95	Check by setting Add. Auto damper to "CLOSED" and auto damper for each module to "CUP"
PRB	COT/BCT	Cup EXH U/L Setting (Nagano Keiki)	**140**	Pa	---	140	
		Cup EXH L/L Setting (Nagano Keiki)	**33**	Pa	---	23	
PRB	COT/BCT	PSB- Process Suckback Position	**2**	mm	2 ~ 3	2 ~ 3	
PRB	COT/BCT	DDS Amplifier Reading Value	**800**	---	600 to 1000	---	Value is taken with a "CLEAN BARE" wafer on the chuck and the laser ON.
PRB	COT/BCT	DDS Light Intensity	**30**	%	30	---	Dip Switch setting done on the DDS IF BRD Black squares are the active Dip Switch position 
PRB	COT/BCT	DDS Alarm Threshold	**40**	%	40	---	Dip Switch setting done on the DDS IF BRD Black squares are the active Dip Switch position 
PRB	COT/BCT	Changing DDS Alarms from STOP to WARNING	---	---	---	---	See 1.07 BKM for jumper WRN/ALM options Section 2.4

6. PIR** / SRS**

Block	Module		Tool Setting	Unit	Tolerance	TEL Std.	Remarks
IPRB	PIR/SRS	Chuck Vac	**-75**	kPa	-71.0 ~ -79.0	-75.0 +/-0.4	Static Setting - Keep 71kPa or higher after 1 minute, with the original pressure set at 75kPa. Fluctuation at Wafer spin start should be within 0.4kPa
IPRB	PIR/SRS	Chuck Vac U/L (Sunx-DP-100) Chuck Vac L/L (Sunx-DP-100)	**-45.0** **-99.9**	kPa	---	-45.0 -99.9	
IPRB	PIR/SRS	3-PIN Level	**0**	degree	0.10 ~ -0.10	0.10 ~ -0.10	Use digital Level
IPRB	PIR/SRS	Chuck Level	**0**	degree	0.10 ~ -0.10	0.10 ~ -0.10	Use digital Level
IPRB	PIR/SRS	3-Pin Height - Up	**45**	mm	---	45	From the chuck to the top surface of the 3-Pin
IPRB	PIR/SRS	3-Pin Height - Down	**-10**	mm	---	-10	From the chuck to the top surface of the 3-Pin
PRB	PIR/SRS	3-PIN Up	**N/A***	sec	---	1.5	*Controlled by motor. Nominal timing is 1.5s
PRB	PIR/SRS	3-PIN Down	**N/A***	sec	---	1.5	*Controlled by motor. Nominal timing is 1.5s
IPRB	PIR/SRS	Knife Edge Height	**-2.5**	mm	-2.3 ~ -2.7	-2.5 +/-0.5	Use Digital cup height JIG Measured @ 3 points Set by using PRO-V tool [Torque 75cn*m] Check current Torque Doc Measured from the bottom of the wafer to the top of the INNER cup
IPRB	PIR/SRS	Cup Height Range Value	**0.2**	mm	--	--	Applies to the 3 adjustments pts. on the base cup. 
IPRB	PIR/SRS	Cup Height Range Value	**0.5**	mm	--	--	Applies to the 6 measurements pts.on the base cup. 
IPRB	PIR/SRS	IDR Nozzle Height	**4**	mm	3.5 ~ 4.5	4	
IPRB	PIR/SRS	MODULE-Arm UP MODULE-Arm DOWN	**0.9** **0.9**	sec	0.8 ~ 1.0	0.9 0.9	Set by Sup-Op display
IPRB	PIR/SRS	IDR Center Position	**Center = Dispense at Chuck Center**	mm		Center = Dispense at Chuck Center	Dispense on glass wafer and check if liquid covers center of wafer
IPRB	PIR/SRS	Back Rinse Position	**80**	mm	78 to 82	φ160+/-5	Dispense stream hits glass wafer 80 mm from center of the chuck.
IPRB	SRS	Cup EXH U/L Setting (Nagano Keiki)	**35**	Pa	---	30	(E14) = SRS
IPRB		Cup EXH L/L Setting (Nagano Keiki)	**12**	Pa	---	7	(E14) = SRS
IPRB	SRS	Cup Exhaust	**20**	Pa	15 to 25	15	(E14) = SRS
IPRB	PIR	Cup EXH U/L Setting (Nagano Keiki)	**30**	Pa	---	30	(E13) = PIR
		Cup EXH L/L Setting (Nagano Keiki)	**7**	Pa	---	7	(E13) = PIR
IPRB	PIR	Cup Exhaust	**15**	Pa	10 to 20	15	(E13) = PIR
IPRB	SRS	IE Nozzle Dispense Position	**4.5**	mm		4.5	From edge of wafer

**= for Immersion tool ONLY

7. OVEN

CPHP/CPRP/CGCH/CHCH

Block	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
PRB	CPHP/CPRP/CGCH	Module Exhaust Setting (E12)	**300**	Pa	285 to 315	300+/-5	SET BY PRESSURE
PRB	CPHP/CPRP/CGCH	Module EXH U/L Setting (Nagano Keiki) (E12)	**330**	Pa	---	330	
	CPHP/CPRP/CGCH	Module EXH L/L Setting (Nagano Keiki) (E12)	**270**	Pa	---	270	
PRB	CPHP/CPRP	Chamber L Exhaust Setting (E10)	**190**	Pa	180 to 205		
PRB	CPHP/CPRP	Chamber L EXH U/L Setting (Nagano Keiki) (E10)	**210**	Pa	---		
		Chamber L EXH L/L Setting (Nagano Keiki) (E10)	**170**	Pa	---		
PRB	CPHP/CPRP	Chamber R Exhaust Setting (E17)	**90**	Pa	80 to 100		
PRB	CPHP/CPRP	Chamber R EXH U/L Setting (Nagano Keiki) (E17)	**105**	Pa	---		
		Chamber R EXH L/L Setting (Nagano Keiki) (E17)	**75**	Pa	---		
PRB	CGCH/CHCH	Module Exhaust Setting (E9)	**550**	Pa	520 - 580	265+/- 10	Set by pressure and setting for Individual Chamber exhausts. DO NOT EXCEED TARGET CHAMBER EXH SETTING
PRB	CGCH/CHCH	Module EXH U/L Setting (Nagano Keiki) (E9)	**610**	Pa	---	305	
		Module EXH L/L Setting (Nagano Keiki) (E9)	**490**	Pa	---	225	
PRB	CGCH/CHCH	Module Exhaust Setting (E16)	**500**	Pa	470 - 530	210 +/-2	Set by pressure and setting for Individual Chamber exhausts. DO NOT EXCEED TARGET CHAMBER EXH SETTING
PRB	CGCH/CHCH	Module EXH U/L Setting (Nagano Keiki) (E16)	**550**	Pa	---	250	
		Module EXH L/L Setting (Nagano Keiki) (E16)	**450**	Pa	---	170	
PRB	CPHP/CPRP	Individual Chamber Exhaust Setting	**9.4**	Pa	7.4 - 11.3	4.0L/min +/-0.5	Target Value is with in Upper and Lower settings DO NOT EXCEED TARGET CHAMBER EXH SETTING
PRB		Individual Chamber Exhaust U/L Setting	**11.3**	Pa	---	11.3	
PRB	CPHP/CPRP	Individual Chamber Exhaust L/L Setting	**7.4**	Pa	---	7.4	
PRB	CGCH/CHCH	Individual Chamber Exhaust Setting	**19.0**	Pa	16.0 - 22.0	4.0L/min +/-0.5	Target Value is with in Upper and Lower settings DO NOT EXCEED TARGET CHAMBER EXH SETTING
PRB	CGCH/CHCH	Individual Chamber Exhaust U/L Setting	**22.0**	Pa	---		
PRB	CGCH/CHCH	Individual Chamber Exhaust L/L Setting	**16.0**	Pa	---		
PRB	CPHP/CPRP	ODOR Exhaust Setting (E21/E22)	**20**	Pa	15 to 25	20+/-2	SET by CFM For TAQ/TNQ/HVM TNE [E22 Only] For TNE/TNG/TBM/TBL[E21/E22]
PRB	CPHP/CPRP	ODOR Exhaust U/L Setting (Nagano Keiki) (E21/E22)	**30**	Pa	---	30	
PRB	CPHP/CPRP	ODOR Exhaust L/L Setting (Nagano Keiki) (E21/E22)	**10**	Pa	---	10	
PRB	CPHP/CPRP	ODOR Exhaust Setting (E21/E22 - Layer 3)	**20**	Pa	15 to 25	20+/-2	SET by CFM [E21/E22] For 6x6 Tools
PRB	CPHP/CPRP	ODOR Exhaust U/L Setting (Nagano Keiki) (E21/E22)	**30**	Pa	---	30	
PRB	CPHP/CPRP	ODOR Exhaust L/L Setting (Nagano Keiki) (E21/E22)	**10**	Pa	---	10	
PRB	CPHP/CPRP	ODOR Exhaust Setting (E21/E22 - Layer5,6)	**40**	Pa	35 to 45	40 +/- 2	
PRB	CPHP/CPRP	ODOR Exhaust U/L Setting (Nagano Keiki) (E21/E22)	**50**	Pa	---	50	
PRB	CPHP/CPRP	ODOR Exhaust L/L Setting (Nagano Keiki) (E21/E22)	**30**	Pa	---	30	
PRB	CPHP/CPRP/CGCH	HP Level	**0**	degree	-0.1 ~ 0.1	0+/-0.1	
PRB	CPHP/CPRP/CGCH	3-Pin Level	**0**	degree	-0.2 ~ 0.2	0+/-0.2	Against HP Level
PRB	CPHP/CPRP/CGCH	Cool Arm in Position	**3**	mm	3 ~ 4.5	3+1.5/-0	Height of Cool Arm to HP wafer guides
PRB	CPHP/CPRP/CGCH	3-Pin Up Height [Above the HP]	**15**	mm	15 ~ 16	15 +1/-0	
PRB	CPHP/CPRP/CGCH	3-Pin Down Height [below the HP]	**1**	mm	1 ~ 0.5	0.5</=	3-Pin does not protrude above the HP
PRB	CPHP/CPRP/CGCH	Cool Arm to 3-Pin Up Height [Above the Cool Arm]	**>1.5**	mm	1.5 ~ 4.0	>1.5	Measure from the cool arm Guide pin to the top of the 3 pin
PRB	CPHP/CPRP	Cool Arm Upper Surface to Base Height	**78**	mm	78.2 ~ 77.6	78+.2 /-0.4	
PRB	CGCH	Cool Arm Upper Surface to Base Height	**77.4**	mm	77.04 to 77.76	77.4+/-0.36	
PRB	CPHP/CPRP	Chamber Up Support Ring Height	**15**	mm	15 ~ 13.5	15+0/-1.5	
PRB	CPHP/CPRP	Chamber Down Support Ring Height	**0.5**	mm	0.3 ~ 0.7	0.5+/-0.2	
PRB	CGCH	HP PLATE Surface to CHAMBER Top plate Under surface	**21.0**	mm	20 to 22	21 +/-1	
PRB	CPHP/CGCH	HP Gap Pin	**0.1**	mm	0.092 ~ 0.108	0.1+/-0.008	
PRB	CPRP	HP Gap Pin - Outer Circle	**0.103**	mm	0.100 ~ 0.106	0.1+/-0.008	Onsite adjustment target
PRB	CPRP	HP Gap Pin - Middle Circle	**0.100**	mm	0.097 ~ 0.103	0.1+/-0.008	Onsite adjustment target
PRB	CPRP	HP Gap Pin - Inner Circle	**0.097**	mm	0.094 ~ 0.100	0.1+/-0.008	Onsite adjustment target
PRB	CPHP/CPRP	Cool Arm Gap Pin	**0.19**	mm	0.205 ~ 0.175	+/-0.015	
PRB	CGCH	Cool Arm Gap Pin	**0.35**	mm	0.335 ~ 0.365	+/-0.015	
PRB	CPHP/CPRP	Chamber (L/R) Purge flowrate	**4**	L/min	3.8 ~ 4.2	4.0+/-0.2	For Air and N2 N2 = TBL D4 CPRP
PRB	CPHP/CPRP	Chamber (L/R) Purge flowrate U/L Setting Chamber (L/R) Purge flowrate L/L Setting	**4.5** **3.5**	L/min	---	4.5 3.5	
PRB	CPHP/CPRP	Chamber-R/L OPEN / CLOSED	**0.7**	sec	0.6 ~ 0.8	0.7	L/R must match
PRB	CPRP	Cool Arm IN/OUT	**1.8**	sec	---	0.7	Set by SW
PRB	CPHP/CPRP/CGCH	3-Pin UP / DOWN	**0.7**	sec	0.6 ~ 0.8	0.7	Set by Sup-Op display
PRB	CGCH	RING SHUTTER(L /R) UP/DOWN	**0.7**	sec	0.6 ~ 0.8	0.7	Set by Sup-Op display

7. OVEN

CADH

Block	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
PRB	CADH	Chamber Open L/R Chamber Closed L/R	**0.7** **0.7**	sec	0.6 ~ 0.8 0.6 ~ 0.8	0.7 0.7	L/R must match
PRB	CADH	3-Pin Up / Down	**0.7**	sec	0.6 ~ 0.8	0.7	Set by Sub-Op display
PRB	CADH	HMDS Vapor Flow Rate	**2500**	ml/min	2300 ~ 2700	2500	Dynamic Setting ['Chamber Down]
PRB	CADH	N2 Purge Flow Rate	**5000**	ml/min	4800 ~ 5200	5000	Dynamic Setting ['Chamber Down]
PRB	CADH	HP Level	**0**	degree	-0.1 ~ 0.1	0+/-0.1	
PRB	CADH	3-Pin Level	**0**	degree	-0.2 ~ 0.2	0+/-0.2	Against HP Level
PRB	CADH	Cool Arm in Position	**3**	mm	3 ~ 4.5	3+1.5/-0	Height of Cool Arm to wafer guides
PRB	CADH	3-Pin Up Height	**15**	mm	15 ~ 16	15 +1/-0	
PRB	CADH	3-Pin Down Height [below the HP]	**1**	mm	1 ~ 0.5	0.5</=	3-Pin does not protrude above the HP
PRB	CADH	Cool Arm to 3-Pin Up Height	**>1.5**	mm	1.5 ~ 4.0	>1.5	Measure from the cool arm Guide pin to the top of the 3 pin
PRB	CADH	Cool Arm Upper Surface to Base Height	**78**	mm	78.2 ~ 77.6	78+.2 /-0.4	
PRB	CADH	Chamber Up Support Ring Height	**15**	mm	15 ~ 13.5	15+0/-1.5	
PRB	CADH	Chamber Down Support Ring Height	**0.5**	mm	0.3 ~ 0.7	0.5+/-0.2	
PRB	CADH	HP Gap Pin	**0.1**	mm	0.075 ~ 0.105	0.1+0.005/ -0.025	
PRB	CADH	Cool Arm Gap Pin	**0.19**	mm	0.175 ~ 0.205	0.19+/-0.015	
PRB	CADH	Local Exhaust (E11)	**300**	Pa	290 to 310	300+/-10	When E11 = 4 or Less CADH units
PRB	CADH	EXH Upper Limit (E11)	**330**	Pa	---	330	
		EXH Lower Limit (E11)	**270**	Pa	---	270	
PRB	CADH	Local Exhaust (E11)	**370**	Pa	360 to 380	370+/-10	When E11 = 5 or 6 CADH units
PRB	CADH	EXH Upper Limit (E11)	**410**	Pa	---	390	
		EXH Lower Limit (E11)	**330**	Pa	---	350	
PRB	CADH	Local Exhaust (E11)	**450**	Pa	430 to 470	450+/-50	When E11 = 7 CADH units
PRB	CADH	EXH Upper Limit (E11)	**500**	Pa	---	500	
		EXH Lower Limit (E11)	**400**	Pa	---	400	
PRB	CADH	Local Exhaust (E11)	**0.500**	kPa	0.480 to 0.520	0.500+/-0.050	When E11 = 9 CADH units
PRB	CADH	EXH Upper Limit (E11)	**0.550**	kPa	---	0.550	
		EXH Lower Limit (E11)	**0.450**	kPa	---	0.450	
PRB	CADH	Local Exhaust (E23)	**250**	Pa	240 to 260	250+/-10	When E23 = 4 or Less CADH units
PRB	CADH	EXH Upper Limit (E23)	**270**	Pa	---	270	
		EXH Lower Limit (E23)	**230**	Pa	---	230	

CPL

Block	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
MPB/IPB	CPL	CPL 3-Pin Up CPL 3-Pin Down	**0.9** **0.9**	sec	0.8 ~ 1.0	0.9 0.9	Set by Sub-Op display
MPB/IPB	CPL	3-Pin Height	**21**	mm	20.5 ~ 21.5	21+/-0.5	Top of 3-Pin to Plate surface
MPB/IPB	CPL	Plate Level	**0**	Degree	0.1 ~ -0.1	0+/-0.1	
MPB/IPB	CPL	3-Pin Level	**0**	Degree	0.1 ~ -0.1	0+/-0.1	

SCPL

Block	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
PRB	SCPL	VAC setting	**1**	kPa	0.95 ~ 1.05	1	Setting is positive Value represents differential pressure on the plate. Set by using 3 touch wafers at the same time.
PRB	SCPL	VAC setting U/L VAC setting L/L	**1.8** **0.3**	kPa	1.8 0.3	1.8 0.3	Place a wafer on all 3 grouped SCPL's then set the VAC setting
PRB	SCPL	Plate Level	**0**	degree	0.1 ~ -0.1	0+/-0.1	

ISHU

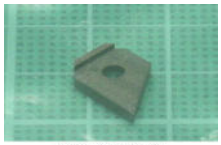
Block	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
PRB	ISHU	CPL 3-Pin Up CPL 3-Pin Down	**0.9** **0.9**	sec	0.8 ~ 1.0	0.9 0.9	Set by Sub-Op display
PRB	ISHU	ISHU 3-Pin Height	**28.5**	mm	28 ~ 29	28.5+/-0.5	
PRB	ISHU	3-Pin Level	**0**	degree	0.1 ~ 0.1	0+/-0.1	

TRS/SBU/RSM

Block	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
MPB/STB/ IPRB	TRS [RSM]	3-Pin Level	**0**	degree	0.1 ~ -0.1	0+/-0.1	
MPB/STB/ IPRB	TRS[RSM]	3-Pin Height	**18**	mm	17.8 ~ 18.2	18+/-0.2	
MPB/STB	TRS/SBU	Gap Pin Level	**0**	degree	0.3 ~ -0.3	0+/-0.3	

8. ARM

CRA

Block	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
CSB	CRA	Z-Height - ISHU	**4**	mm	---	4	
CSB	CRA	Z-Height - TRS	**4**	mm	---	4	
CSB	CRA	Z-Height - CPL	**4**	mm	---	4	
CSB	CRA	Z-Height - Foup [TAQ/TNQ]	**2**	mm	---	2.0	**Standard Forks uses these front guides**  5004-500078-11
CSB	CRA	Z-Height - Foup [All Others]	**2.5**	mm	---	2.5	**High Speed Forks uses these front guides**  5010-525176-12
CSB	CRA	Fork Diameter	**300.4**	mm	---	300.4	

MPRA

Block	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
MPB	MPRA	Fork Diameter - 2-0	**300.4**	mm	---	300.4	when checking fork for tightness, use the 300.3mm disc.
MPB	MPRA	Z-Height CPL/RCPL	**5.5**	mm	---	5.5	
MPB	MPRA	Z-Height SCPL	**6**	mm	---	6	
MPB	MPRA	Z-HeightSBU	**5.5**	mm	---	5.5	
MPB	MPRA	Z-Height SBU 10 stage	**5.5**	mm	---	5.5	
MPB	MPRA	Z-Height TRS	**5.5**	mm	---	5.5	
MPB	MPRA	Z-Height - ISHU	**5.5**	mm	---	5.5	
MPB	MPRA	Fork Diameter - 7-0	**300.4**	mm	---	300.4	when checking fork for tightness, use the 300.3mm disc.
MPB	MPRA	Z-Height TRS	**5.5**	mm	---	5.5	
MPB	MPRA	Z-Height SCPL	**6**	mm	---	6	

PRA

Block	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
PRB	PRA	Fork Diameter (3-0, 4-0,5-0,6-0) Fork 1	**300.4**	mm	+/- 0.020	300.4	Tolerance updated when using micrometer when checking fork for tightness, use the 300.3mm disc.
PRB	PRA	Fork Diameter (3-0, 4-0,5-0,6-0) Fork 2	**300.4**	mm	+/- 0.020	300.4	Tolerance updated when using micrometer when checking fork for tightness, use the 300.3mm disc.
PRB	PRA	Z-Height - BCT	**5.5**	mm	---	5.5	
PRB	PRA	Z-Height - COT	**5.5**	mm	---	5.5	
PRB	PRA	Z-Height - DEV	**5.5**	mm	---	5.5	
PRB	PRA	Z-Height - OVEN	**7**	mm	---	7	
PRB	PRA	Z-Height - SCPL	**6**	mm	---	6	
PRB	PRA	Z-Height - SBU	**5.5**	mm	---	5.5	
PRB	PRA	Z-Height - TRS	**5.5**	mm	---	5.5	
PRB	PRA	Z-Height - Cup Wash	**5.5**	mm	---	5.5	Check height of 5.5mm at center of Cup Wash module

PRAI *

Block	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
IPRB	PRAI	Fork Diameter 8-0-Fork 1-Wet	**300.4**	mm	---	300.4	when checking fork for tightness, use the 300.3mm disc.
IPRB	PRAI	Fork Diameter 8-0-Fork 2-Dry	**300.4**	mm	---	300.4	when checking fork for tightness, use the 300.3mm disc.
IPRB	PRAI	Z-Height - CPL/SCPL	**5.5**	mm	---	5.5	
IPRB	PRAI	Z-Height - ISHU	**5.5**	mm	---	5.5	
IPRB	PRAI	Z-Height - TRS	**5.5**	mm	---	5.5	
IPRB	PRAI	Z-Height - RSM	**5.5**	mm	---	5.5	

IRAI

Block	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
IFBI	IRAI	Z-Height - TRS	**4**	mm	---	4	
IFBI	IRAI	Z-Height - RSM	**4**	mm	---	4	
IFBI	IRAI	Z-Height - CPL	**4**	mm	---	4	
IFBI	IRAI	Fork Diameter 9-0-Fork 1-Wet	**300.4**	mm	---	300.4	
IFBI	IRAI	Fork Diameter 9-0-Fork 2-Dry	**300.4**	mm	---	300.4	

ISHU

Block	Module	Description of Setting	Tool Setting	Unit	Tolerance	TEL Std.	Remarks
PRB	ISHU	Diameter	**300.4**	mm	---	300.4	

9. Sensor Setting

DP100 Sensor

			Menu Setting Mode							RUN Mode			
Block	Module	Object	Out1	Out2	I/O	N.oN.c	SPED	CLOR	Unit	Zero Adj.	Lo-1	Hi-1	Key Lock
PRB	SYSTEM	Module Drive (Source)	W.CMP	OFF	A.out	N.o	2.5	R-ON	MPa	Required	LL	UL	Required
CSB**	SYSTEM	Stage Vac	W.CMP	OFF	-	N.o	2.5	R-ON	kPa	Required	LL	UL	Required
PRB	COT	COT Chuck VAC	W.CMP	OFF	A.out	N.o	2.5	R-ON	kPa	Required	LL	UL	Required
PRB	BCT	BCT Chuck VAC	W.CMP	OFF	A.out	N.o	2.5	R-ON	kPa	Required	LL	UL	Required
IPRB	SRS	SRS Chuck VAC	W.CMP	OFF	A.out	N.o	2.5	R-ON	kPa	Required	LL	UL	Required
IPRB	PIR	PIR Chuck VAC	W.CMP	OFF	A.out	N.o	2.5	R-ON	kPa	Required	LL	UL	Required
IPRB	BST	BST Chuck VAC	W.CMP	OFF	A.out	N.o	2.5	R-ON	kPa	Required	LL	UL	Required
PRB	DEV	DEV Chuck VAC	W.CMP	OFF	A.out	N.o	2.5	R-ON	kPa	Required	LL	UL	Required
PRB	CRD	RESIST Pump Purge	W.CMP	OFF	A.out	N.o	5000	R-ON	kPa	Required	LL	UL	Required
PRB	DEV	SPIN N2	W.CMP	OFF	A.out	N.o	2.5	R-ON	kPa	Required	LL	UL	Required
PRB	CRD	AMC N2 Purge	W.CMP	OFF	A.out	N.o	5000	R-ON	kPa	Required	LL	UL	Required
PRB	DEV	ADR N2 REG	W.CMP	OFF	A.out	N.o	5	R-ON	kPa	Required	LL	UL	Required
IPRB	PIR	PDR N2 REG	W.CMP	OFF	A.out	N.o	2.5	R-ON	kPa	Required	LL	UL	Required
IPRB	SRS	PDR N2 REG	W.CMP	OFF	A.out	N.o	2.5	R-ON	kPa	Required	LL	UL	Required
External	CAB	PCS Pump VAC	W.CMP	OFF	A.out	N.o	2.5	R-ON	kPa	Required	LL	UL	Required
IPRB	BST+*	BST Back Side Air Nozzle	W.CMP	OFF	A.out	N.o	50	R-ON	MPa	Required	LL	UL	Required
IPRB	BST+*	BST Wafer Edge Air Nozzle	W.CMP	OFF	A.out	N.o	50	R-ON	kPa	Required	LL	UL	Required

**= ProZ style loadports

DP4 Sensor

			Zero Adj.	Default	Supplemental Setting				Pressure Setting		
Block	Module	Object	Display		U-1	U-2	U-3	U-4	P-1	P-2	Comment
CSB	SYSTEM	Stage Vac	Required	PCd	no	256	512	-	UL	LL	

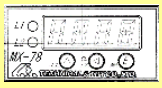
AM-215A Sensor

			Comparator Data								Condition Data	
Block	Module	Object	S-Hi	S-Lo	H-Hi	H-Lo	L-Hi	L-Go	L-Lo	AL1	AL2	AYG	Comment
PRB	Chemicals	Chemicals positive pressure	10.00	0.17	0.00	0.00	N.O	N.O	N.C	Hi	Lo	40	

FS-V31 Sensor

				RUN Mode		Std Setting		Display Setting Mode			
Block	Module	Object		Pwr Adj	Key Lock	Pwr Set	SEt	Adj	rEu	CuSt	Comment
PRB	SYSTEM	RESIST LE SENSOR	D·ON	Required	Required	SuPr	SEtP	SCAL	oFF	no	

MX-78-D24 Sensor



			L1 limiter					L2 limiter					Stability detection	
Block	Module	Object	Limiter	Hys range	Detection	Output	Output cond.	Limiter	Hys range	Detection	Output	Output cond.	Unstable latency	Stable latency
Extremal	COT CAB	HMDS Weight Sensor	100	3	upp	A	Stnd	200	3	upp	A	Stnd	5	2

	Zero trading			Moving Average	Calibration				Conversion input		
Valid/Invalid	Range	Waiting time			Cal.	Point	Minimum Dis	Actual load	Equivalent	Conversion	Conversion value	Inverse
dis	3	5		5	rCAL	0	un_1	Sensor specifi	Sensor specific	diS	100	1

9. Sensor Setting

E3X-MD36T-T Sensor

Block	Module	Object	Power tune	Key Lock	tEch	0-oP	1-Fn	2-tF	3-ot	4-md	PL	5-dP	6-ru
PRB	COT/BCT	RSV Tank(L,LL)	Required	Required	-	D-ON	Stnd	on-d	2out	PrUn	2000	Income Light Amount/Threshold Value=1600	Unspecified
PRB	COT/BCT	RSV Tank(H)	Required	Required	-	L-ON	Stnd	oFFd	2out	PrUn	2000	Income Light Amount/Threshold Value=1700	Unspecified

GC30 Sensor

Block	Module	Object	Zero Adj.	CnP	Uni	FiL	A-L	A-H	A-1	b-1	on1	off1	A-2	b-2	on2	off2	LoP
PRB	SYSTEM	SPIN CUP Source Exh (DEV)	Required	Hys	Pa	F-2	0	100	UL	-1	0	0	LL	0	0	0	*
PRB	SYSTEM	SPIN CUP Source Exh (COT)	Required	Hys	Pa	F-2	0	100	UL	-1	0	0	LL	0	0	0	*
PRB	SYSTEM	SPIN CUP Source Exh (BCT)	Required	Hys	Pa	F-2	0	100	UL	-1	0	0	LL	0	0	0	*
IPRB	SYSTEM	SPIN CUP Source Exh (PIR)	Required	Hys	Pa	F-3	0	100	UL	-1	0	0	LL	0	0	0	*
IPRB	SYSTEM	SPIN CUP Source Exh (SRS)	Required	Hys	Pa	F-3	0	100	UL	-1	0	0	LL	0	0	0	*
PRB	SYSTEM	CHEMICAL Source Exh (L)	Required	Hys	Pa	F-3	0	100	LL	0	0	0	0	0	0	0	*
PRB	SYSTEM	CHEMICAL Source Exh (R)	Required	Hys	Pa	F-3	0	100	LL	0	0	0	0	0	0	0	*
PRB	OVEN	Individual Chamber Exh.	Required	Win	Pa	F-5	0	100	LL	UL	0	0	0	0	0	0	*
PRB	SYSTEM	CADH CHEM Source Exh	Required	Hys	Pa	F-3	0	100	LL	0	0	0	0	0	0	0	*
PRB	SYSTEM	CADH Local Exh (Source)	Required	Win	Pa	F-3	0	100	LL	UL	0	0	0	0	0	0	*
PRB	SYSTEM	Chamber Source Exh	Required	Win	Pa	F-3	0	100	LL	UL	0	0	0	0	0	0	*
PRB	SYSTEM	Odor Mod Exhaust	Required	Win	Pa	F-3	0	100	LL	UL	0	0	0	0	0	0	*
PRB	SYSTEM	OVEN Module Source Exh	Required	Win	Pa	F-3	0	100	LL	UL	0	0	0	0	0	0	*
External	COT CAB	Exh (Supply Cabinet)	Required	Hys	Pa	F-3	0	100	LL	UL	0	0	0	0	0	0	*
External	DEV CAB	Exh (Supply Cabinet)	Required	Hys	Pa	F-3	0	100	LL	UL	0	0	0	0	0	0	*
PRB	CPL	SCPL Module	Required	Win	kPa	F-2	0	100	LL	UL	0	0	0	0	0	0	*
PRB	SYSTEM	CADH (Chamber Exh)	Required	Win	Pa	F-3	0	100	LL	UL	0	0	0	0	0	0	*
PRB	CPL	RCPL Module	Required	Win	kPa	F-2	0	100	LL	UL	0	0	0	0	0	0	*

* Tool specific

FSM2-NVF100-L063N (CKD)

Unlock by pressing and holding down all 3 buttons

Category	Utility	Block	Module	Object	Flow display	Key lock	CH1	CH2	CH1 High	CH1 Low	CH2 High - Low	Auto-Reference	Response time setting	Display Speed Setting	Sub-Screen Setting	Display Color Setting	Hysteresis Setting
OVEN		PRB	OVEN	CHAM PURGE	L/min	on	_|‾ I _	- - - -	4.5	3.5	-	out	SP-4	250	FLO	g rEn	|
OVEN		PRB	OVEN	HMDS VAPOR	L/min	on	‾|_|_	- - - -	4.0	4.0	-	out	SP-4	250	FLO	g rEn	|
OVEN		PRB	OVEN	HMDS PURGE	L/min	on	-	- - - -	-	-	-	out	SP-4	250	FLO	g rEn	|

STHC TCW FLOW RATE SENSOR SETTINGS

Sensor with a internal sensor indicator					
STOP ALM (CH1)			WARNING ALM (CH2)		
MODE	on: ‾|	off: _|	MODE	on: ‾|	off: _|
_|=|‾	X -0.9	X-1.0	_|=|	X -0.4	X-0.5
_|=|‾	X -0.9	X-1.0	_|=|‾	X -0.4	X-0.5

Sensor with an external flow sensor indicator					
STOP ALM (OUT1)			WARNING ALM (OUT2)		
P	L	H	P	L	H	h
0000	X -0.8	999.9	0000	X -0.3	999.9	0.2

10. High Altitude Setting Fab/Sub-Fab

Location	Module	Description of Setting	F32	Unit	Tolerance F32 MIN	Tolerance F32 MAX	TEL Std.	Remarks
PRB	CPHP/CPRP/CGCH	Module Exhaust Setting (E12)	**290**	Pa	275	305	300+/-5	SET BY PRESSURE
PRB	CPHP/CPRP/CGCH	Module EXH U/L Setting (Nagano Keiki) (E12)	**319**	Pa	---	---	330	
	CPHP/CPRP/CGCH	Module EXH L/L Setting (Nagano Keiki) (E12)	**261**	Pa	---	---	270	
PRB	CPHP/CPRP	Chamber L Exhaust Setting (E10)	**184**	Pa	174	194		
PRB	CPHP/CPRP	Chamber L EXH U/L Setting (Nagano Keiki) (E10)	**203**	Pa	---	---		
		Chamber L EXH L/L Setting (Nagano Keiki) (E10)	**164**	Pa	---	---		
PRB	CPHP/CPRP	Chamber R Exhaust Setting (E17)	**87**	Pa	77	97		
PRB	CPHP/CPRP	Chamber R EXH U/L Setting (Nagano Keiki) (E17)	**101**	Pa	---	---		
		Chamber R EXH L/L Setting (Nagano Keiki) (E17)	**72**	Pa	---	---		
PRB	CGCH/CHCH	Module Exhaust Setting (E9)	**531**	Pa	501	561	265+/- 10	Set by pressure and setting for Individual Chamber exhausts. DO NOT EXCEED TARGET CHAMBER
PRB	CGCH/CHCH	Module EXH U/L Setting (Nagano Keiki) (E9)	**589**	Pa	---	---	305	
PRB		Module EXH L/L Setting (Nagano Keiki) (E9)	**473**	Pa	---	---	225	
PRB	CGCH/CHCH	Module Exhaust Setting (E16)	**483**	Pa	453	513	210 +/-2	Set by pressure and setting for Individual Chamber exhausts. DO NOT EXCEED TARGET CHAMBER
PRB	CGCH/CHCH	Module EXH U/L Setting (Nagano Keiki) (E16)	**531**	Pa	---	---	250	
PRB		Module EXH L/L Setting (Nagano Keiki) (E16)	**435**	Pa	---	---	170	
PRB	CPHP/CPRP	Individual Chamber Exhaust Setting	**9.0**	Pa	7.0	11.0	4.0L/min +/-0.5	Target Value is with in Upper and Lower settings DO NOT EXCEED TARGET CHAMBER EXH SETTING
PRB		Individual Chamber Exhaust U/L Setting	**10.9**	Pa	---	---	11.3	
PRB	CPHP/CPRP	Individual Chamber Exhaust L/L Setting	**7.1**	Pa	---	---	7.4	
PRB	CGCH/CHCH	Individual Chamber Exhaust Setting	**18**	Pa	15	21	4.0L/min +/-0.5	Target Value is with in Upper and Lower settings DO NOT EXCEED TARGET CHAMBER
PRB	CGCH/CHCH	Individual Chamber Exhaust U/L Setting	**21**	Pa	---	---		
PRB	CGCH/CHCH	Individual Chamber Exhaust L/L Setting	**15**	Pa	---	---		
PRB	CPHP/CPRP	ODOR Exhaust Setting (E21/E22)	**19**	Pa	14	24	20+/-2	SET by CFM For TAQ/TNQ/HVM TNE [E22 Only] For TNE/TNG [E21/E22]
PRB	CPHP/CPRP	ODOR Exhaust U/L Setting (Nagano Keiki) (E21/E22)	**29**	Pa	---	---	30	
PRB	CPHP/CPRP	ODOR Exhaust L/L Setting (Nagano Keiki) (E21/E22)	**10**	Pa	---	---	10	
PRB	CPHP/CPRP	ODOR Exhaust Setting (E21/E22 - Layer 3)	**19**	Pa	14	24	20+/-2	SET by CFM [E21/E22] For 6x6 Tools
PRB	CPHP/CPRP	ODOR Exhaust U/L Setting (Nagano Keiki) (E21/E22)	**29**	Pa	---	---	30	
PRB	CPHP/CPRP	ODOR Exhaust L/L Setting (Nagano Keiki) (E21/E22)	**10**	Pa	---	---	10	
PRB	CPHP/CPRP	ODOR Exhaust Setting (E21/E22 - Layer5,6)	**39**	Pa	34	44	40 +/- 2	
PRB	CPHP/CPRP	ODOR Exhaust U/L Setting (Nagano Keiki) (E21/E22)	**48**	Pa	---	---	50	
PRB	CPHP/CPRP	ODOR Exhaust L/L Setting (Nagano Keiki) (E21/E22)	**29**	Pa	---	---	30	
PRB	CADH	Local Exhaust (E11)	**290**	Pa	280	300	300+/-10	When E11 = 4 or Less CADH units
PRB	CADH	EXH Upper Limit (E11)	**319**	Pa	---	---	330	
PRB		EXH Lower Limit (E11)	**261**	Pa	---	---	270	
PRB	CADH	Local Exhaust (E11)	**357**	Pa	347	367	370+/-10	When E11 = 5 or 6 CADH units
PRB	CADH	EXH Upper Limit (E11)	**396**	Pa	---	---	390	
PRB		EXH Lower Limit (E11)	**319**	Pa	---	---	350	
PRB	CADH	Local Exhaust (E11)	**435**	Pa	385	475	450+/-50	When E11 = 7 CADH units
PRB	CADH	EXH Upper Limit (E11)	**483**	Pa	---	---	500	
PRB		EXH Lower Limit (E11)	**386**	Pa	---	---	400	
PRB	CADH	Local Exhaust (E11)	**0.483**	kPa	0.433	0.533	0.500+/-0.050	When E11 = 9 CADH units
PRB	CADH	EXH Upper Limit (E11)	**0.531**	kPa	---	---	0.550	
		EXH Lower Limit (E11)	**0.435**	kPa	---	---	0.450	
PRB	CADH	Local Exhaust (E23)	**241**	Pa	231	251	250+/-10	When E23 = 4 or Less CADH units
PRB	CADH	EXH Upper Limit (E23)	**261**	Pa	---	---	270	
		EXH Lower Limit (E23)	**222**	Pa	---	---	230	
CSB	SYSTEM	CSB Wind Velocity	**0.29**	m/sec	0.29	0.39	0.3 (+0.1/-0)	Measure 100mm below punching plate
PRB	COT/BCT/DEV/NTD	Wind Velocity	**0.19**	m/sec	0.13	0.25	---	Measurement is taken above each cup and avg. is input to the Setting Value. Measure at 40mm above each cup
PRB	System	THC SPINNER(L) wind pressure	**Tool Specific**	kPa	See Pressure Data Sheet±0.005			See Wind Pressure Sheet when setting Values
PRB	System	THC SPINNER(R) wind pressure	**Tool Specific**	kPa	See Pressure Data Sheet±0.005			See Wind Pressure Sheet when setting Values
PRB	System	THC PRA(L) wind pressure	**Tool Specific**	kPa	See Pressure Data Sheet±0.005			See Wind Pressure Sheet when setting Values
PRB	System	THC PRA(R) wind pressure	**Tool Specific**	kPa	See Pressure Data Sheet±0.005			See Wind Pressure Sheet when setting Values
PRB	System	THC MP Tower wind pressure	**Tool Specific**	kPa	See Pressure Data Sheet±5			See Wind Pressure Sheet when setting Values
PRB	System	THC SideTower wind pressure	**Tool Specific**	kPa	See Pressure Data Sheet±5			See Wind Pressure Sheet when setting Values
iPRB	System	THC PRAi wind pressure	**Tool Specific**	kPa	See Pressure Data Sheet±5			See Wind Pressure Sheet when setting Values
iPRB	System	THC iPRB SPINNER(PIR/SRS) wind pressure	**Tool Specific**	kPa	See Pressure Data Sheet±1			See Wind Pressure Sheet when setting Values

10. High Altitude Setting Fab/Sub-Fab

Location	Module	Description of Setting	F32	Unit	Tolerance F32 MIN ~ MAX		TEL Std.	Remarks
CSB	CSB	Positive Pressure	Tool Specific	Pa	Tool Specific			PRB≧CSB
PRB	COT	Positive Pressure	Tool Specific	Pa	Tool Specific			PRB SPIN≧PRA
PRB	DEV	Positive Pressure	Tool Specific	Pa	Tool Specific			PRB SPIN≧PRA
PRB	PRA	Positive Pressure	Tool Specific	Pa	Tool Specific			PRA≦PRB SPIN
iPRB	PRAi	Positive Pressure	Tool Specific	Pa	Tool Specific			PIR/SRS≦PRAi
iPRB	PIR	Positive Pressure	Tool Specific	Pa	Tool Specific			PRAI≧PIR
iPRB	SRS	Positive Pressure	Tool Specific	Pa	Tool Specific			PRAI≧SRS
IFB	IFB	Positive Pressure	Tool Specific	Pa	Tool Specific			Exposure machine ≧IFB≦iPRB
MPB	SYSTEM	Chemical Exhaust - L (E6)	**97**	Pa	22	297	100	Set by 42.4 cfm
MPB	SYSTEM	Chemical Exhaust - L (U/L Setting) (E6)	**0**	Pa	---		0	
		Chemical Exhaust - L (L/L Setting) (E6)	**10**	Pa	---		10	
STB	SYSTEM	Chemical Exhaust - R (E7)	**145**	Pa	70	245	100	Set by 35.3 cfm
STB	SYSTEM	Chemical Exhaust - R (U/L Setting) (E7)	**0**	Pa	---		0	
		Chemical Exhaust - R (L/L Setting) (E7)	**10**	Pa	---		10	
PRB	CADH	Chemical Area Exhaust (E8)	**145**	Pa	125	165	>100	Set by CFM 15.9 +/- 10% Applies to all track configurations
PRB	CADH	Chemical Area Exhaust U/L Setting (E8)	**0**	Pa	---		0	
		Chemical Area Exhaust L/L Setting (E8)	**68**	Pa	---		20	
PRB	CADH	Chemical Area Exhaust (E24)	**174**	Pa	99	204	100	Target is min of 100Pa 12 CADH System Tool Spec
PRB		Chemical Area Exhaust U/L Setting (E24)	**0**	Pa			0	
PRB		Chemical Area Exhaust L/L Setting (E24)	**97**	Pa			20	
TAQ/TNQ	COT Cabinet	Exhaust Solvent (EA1)	**97**	Pa	12	322	100	TARGET CFM 70.6
	COT Cabinet	Exhaust Solvent (EA1) U/L Setting (EA1)	**338**	Pa	---		0	
	COT Cabinet	Exhaust Solvent (EA1) L/L Setting (EA1)	**10**	Pa	---		70	
	COT Cabinet	Exhaust Solvent (EA2)	**97**	Pa	12	322	100	TARGET CFM 70.6
	COT Cabinet	Exhaust Solvent (EA2) U/L Setting (EA2)	**338**	Pa	---		0	
	COT Cabinet	Exhaust Solvent (EA2) L/L Setting (EA2)	**10**	Pa	---		70	
	COT Cabinet	Exhaust HMDS (EA5)	**193**	Pa	8	318	200	TARGET CFM 14.1
	COT Cabinet	Exhaust HMDS U/L Setting (EA5)	**338**	Pa	---		0	
	COT Cabinet	Exhaust HMDS L/L Setting (EA5)	**10**	Pa	---		50	
	DEV Cabinet	DEV CAB Exhaust (EC1)	**24**	Pa	14	324	30	TARGET CFM 35.3
	DEV Cabinet	DEV CAB Exhaust U/L Setting (EC1)	**338**	Pa	---		0	
		DEV CAB Exhaust L/L Setting (EC1)	**10**	Pa	---		5	
	DEV Cabinet	DEV CAB Exhaust (EC2)	**24**	Pa	14	324	30	TARGET CFM 17.7
	DEV Cabinet	DEV CAB Exhaust U/L Setting (EC2)	**338**	Pa	---		0	
		DEV CAB Exhaust L/L Setting (EC2)	**10**	Pa	---		5	
TNE [NON-CE] TNE [CE] TNE [HVM]	COT Cabinet	Exhaust Solvent (EA1)	**121**	Pa	11	321	100	TARGET CFM 70.6
	COT Cabinet	Exhaust Solvent (EA1) U/L Setting (EA1)	**338**	Pa	---		0	
	COT Cabinet	Exhaust Solvent (EA1) L/L Setting (EA1)	**10**	Pa	---		70	
	COT Cabinet	Exhaust HMDS (EA5)	**145**	Pa	10	320	200	TARGET CFM 14.1
	COT Cabinet	Exhaust HMDS U/L Setting (EA5)	**338**	Pa	---		0	
	COT Cabinet	Exhaust HMDS L/L Setting (EA5)	**10**	Pa	---		50	
	DEV Cabinet	DEV CAB Exhaust (EC1)	**24**	Pa	14	324	30	TARGET CFM 35.3
	DEV Cabinet	DEV CAB Exhaust U/L Setting (EC1)	**338**	Pa	---		0	
		DEV CAB Exhaust L/L Setting (EC1)	**10**	Pa	---		5	
	DEV Cabinet	DEV CAB Exhaust (EC2)	**19**	Pa	14	324	30	TARGET CFM 17.7
	DEV Cabinet	DEV CAB Exhaust U/L Setting (EC2)	**338**	Pa	---		0	
		DEV CAB Exhaust L/L Setting (EC2)	**10**	Pa	---		5	

10. High Altitude Setting Fab/Sub-Fab

Location	Module	Description of Setting	F32	Unit	Tolerance F32 MIN	Tolerance F32 MAX	TEL Std.	Remarks
TNG / TBL / TBM	COT Cabinet	Exhaust Solvent (EA1)	**48**	Pa	13	323	100	TARGET CFM 14.1
	COT Cabinet	Exhaust Solvent (EA1) U/L Setting (EA1)	**338**	Pa	---		0	
	COT Cabinet	Exhaust Solvent (EA1) L/L Setting (EA1)	**10**	Pa	---		70	
	COT Cabinet	Exhaust HMDS (EA5)	**14**	Pa	4	99	200	TARGET CFM 14.1
	COT Cabinet	Exhaust HMDS U/L Setting (EA5)	**97**	Pa	---		0	
	COT Cabinet	Exhaust HMDS L/L Setting (EA5)	**5**	Pa	---		50	
	DEV Cabinet	DEV CAB Exhaust (EC1)	**48**	Pa	13	323	30	TARGET CFM 17.7
	DEV Cabinet	DEV CAB Exhaust U/L Setting (EC1)	**338**	Pa	---		0	
		DEV CAB Exhaust L/L Setting (EC1)	**10**	Pa	---		5	
TAS/TAU/ TNU/ TNK	COT Cabinet	Exhaust Solvent (EA1)	**48**	Pa	13	323	100	TARGET CFM 21.2
	COT Cabinet	Exhaust Solvent (EA1) U/L Setting (EA1)	**338**	Pa	---		0	
	COT Cabinet	Exhaust Solvent (EA1) L/L Setting (EA1)	**10**	Pa	---		70	
	COT Cabinet	Exhaust HMDS (EA5)	**14**	Pa	4	99	200	TARGET CFM 14.1
	COT Cabinet	Exhaust HMDS U/L Setting (EA5)	**97**	Pa	---		0	
	COT Cabinet	Exhaust HMDS L/L Setting (EA5)	**5**	Pa	---		50	
	DEV Cabinet	DEV CAB Exhaust (EC1)	**48**	Pa	13	323	30	TARGET CFM 21.2
	DEV Cabinet	DEV CAB Exhaust U/L Setting (EC1)	**338**	Pa	---		0	
		DEV CAB Exhaust L/L Setting (EC1)	**10**	Pa	---		5	
TBC	COT Cabinet	Exhaust Solvent (EA1)	**97**	Pa	12	322	100	TARGET CFM35.3
	COT Cabinet	Exhaust Solvent (EA1) U/L Setting (EA1)	**338**	Pa	---		0	
	COT Cabinet	Exhaust Solvent (EA1) L/L Setting (EA1)	**10**	Pa	---		70	
	COT Cabinet	Exhaust HMDS (EA5)	**145**	Pa	10	320	200	TARGET CFM14.1
	COT Cabinet	Exhaust HMDS U/L Setting (EA5)	**338**	Pa	---		0	
	COT Cabinet	Exhaust HMDS L/L Setting (EA5)	**10**	Pa	---		50	
TBE	COT Cabinet	Exhaust Solvent (EA1)	**14**	Pa	4	99	100	TARGET CFM14.1
	COT Cabinet	Exhaust Solvent (EA1) U/L Setting (EA1)	**97**	Pa	---		0	
	COT Cabinet	Exhaust Solvent (EA1) L/L Setting (EA1)	**5**	Pa	---		70	
	COT Cabinet	Exhaust HMDS (EA5)	**14**	Pa	4	99	200	TARGET CFM14.1
	COT Cabinet	Exhaust HMDS U/L Setting (EA5)	**97**	Pa	---		0	
	COT Cabinet	Exhaust HMDS L/L Setting (EA5)	**5**	Pa	---		50	
PRB	COT	Supply Exhaust COT (E3,E4,E5)	**406**	Pa	386	426	340	EPC damper must be held Open and use EXH BKM..Target CFM 320
PRB	COT	Low Setting EXH COT (E3,E4,E5)	**19**	Pa	---		20	Sensor located in above 4-0 Layer
PRB	COT TNU ONLY	Supply Exhaust COT (E4,E5)	**589**	Pa	569	609	610+/-20	Use with Facilities setting [Facilities will pre open to set position]and Blower Fan Dampers.[will be used to achieve the final setting]
PRB	COT TNU ONLY	Supply Exhaust COT (E34,E35)	**589**	Pa	569	609	610+/-20	Use with Facilities setting [Facilities will pre open to set position]and Blower Fan Dampers.[will be used to achieve the final setting]
PRB	COT TBL/TNE/TNG/TBM	Cup Exhaust Open	**19**	Pa	14	24	30	Checked in idle state when the Add. Auto damper is "OPEN" and each cup damper is set to "MODULE"
		Cup Exhaust Closed	**92**	Pa	87	97	95	Check by setting Add. Auto damper to "CLOSED" and auto damper for each module to "CUP".
PRB	COT TBL/TNE/TNG/	Cup EXH U/L Setting (Nagano Keiki)	**135**	Pa	---		140	
		Cup EXH L/L Setting (Nagano Keiki)	**13**	Pa	---		23	
PRB	COT/BCT	Cup Exhaust Open	**39**	Pa	34	44	30	Checked in idle state when the Add. Auto damper is "OPEN" and each cup damper is set to "MODULE"
		Cup Exhaust Closed	**92**	Pa	87	97	95	Check by setting Add. Auto damper to "CLOSED" and auto damper for each module to "CUP".
PRB	COT/BCT	Cup EXH U/L Setting (Nagano Keiki)	**135**	Pa	---		140	
		Cup EXH L/L Setting (Nagano Keiki)	**32**	Pa	---		23	

10. High Altitude Setting Fab/Sub-Fab

Location	Module	Description of Setting	F32	Unit	Tolerance F32 MIN ~ MAX		TEL Std.	Remarks
PRB	DEV	Supply Exhaust DEV (E1,E2) (8x0 Config)	**309**	Pa	289	329	320 ~ 400	Value is checked with outer cup up and following the EXH BKM.
PRB	DEV	Supply Exhaust DEV (E1) (4x4 Config)	**309**	Pa	289	329	320 ~ 400	Value is checked with outer cup up and following the EXH BKM.
PRB	NTD	Supply Exhaust NTD (E2) (4x4 Config)	**386**	Pa	236	536	----	Following the EXH BKM.
PRB	DEV/NTD	Supply Exhaust NTD (E1,E2) (6x6 Config)	**386**	Pa	286	586	400 to 500	Following the EXH BKM.
PRB	DEV/NTD	Supply Exhaust NTD (E23) (6x6 Config)	**483**	Pa	383	583	400 to 500	Following the EXH BKM.
PRB	DEV/NTD	Cup Exhaust Open	**8**	Pa	7	9	8 (+/-1)	Layer is checked with all modules Cup up and then execute auto damper
		Cup Exhaust Closed	**43**	Pa	38	48	45 (+/-5)	
PRB	DEV/NTD	Cup EXH U/L Setting (Nagano Keiki)	**82**	Pa	---		85	
		Cup EXH L/L Setting (Nagano Keiki)	**1**	Pa	---		1	
IPRB	PIR	Exhaust Source Setting (E13)	N/A	Pa	35	45	40	SET BY PRESSURE (Use Start-up BKM) [Manual Damper should be fully CLOSED in Blank/RSV modules]
IPRB	SRS	Exhaust Source Setting (E14)	N/A	Pa	55	65	60	SET BY PRESSURE (Use Start-up BKM) [Manual Damper should be fully CLOSED in Blank/RSV modules]
IPRB	SRS	Cup EXH U/L Setting (Nagano Keiki)	**34**	Pa	---		30	(E14) = SRS
		Cup EXH L/L Setting (Nagano Keiki)	**12**	Pa	---		7	(E14) = SRS
IPRB	SRS	Cup Exhaust	**19**	Pa	14	24	15	(E14) = SRS
IPRB	PIR	Cup EXH U/L Setting (Nagano Keiki)	**29**	Pa	---		30	(E13) = PIR
		Cup EXH L/L Setting (Nagano Keiki)	**7**	Pa	---		7	(E13) = PIR
IPRB	PIR	Cup Exhaust	**14**	Pa	9	19	15	(E13) = PIR

LITHIUS ProV Software Fingerprint

1. Overview

Parameter Layout

Notes:

1. System Configuration Parameter contains Dispense Parameter, Monitoring Parameter, Transfer Arm Parameter and Spinner Parameter.

2. To avoid going over same parameter multiple times, only System configuration parameter is documented in this fingerprint.

3. In this Fingerprint, System configuration parameter is divided into Arm, Spinner, and Oven.

4. To audit values in Parameter Editor, log into User Service level with username CTADMIN4.
   User/level display in Parameter Editor will show: CTADMIN (Service).

5. To audit values in the EC, use the “Temporary User Registration” function to log with username CTADMIN.
   User/level display in EC will show: CTADMIN with red background.

2. Start Up Setting

Default Language Setting	**English**
HOST Computer Interface	**Valid**
LINKED LITHO Interface	**Valid***

***= Not present on BARC**

3. System Configuration Parameter, System

System

Monitoring Parameter

Barometric Pressure

Valid, Invalid	**Valid**
Measured Data ID	**Barometric Pressure**
Recipe Setting Method	**Local**
Temperature Control Method	**Tmp ctl ON**
Recipe Verification Range Lower Limit	**0.00**
Recipe Verification Range Upper Limit	**0.00**

Controller Analogue Sensor

Controller ID	**Analogue sensor**
Set Value	**FAB Specific***
Warning Range Lower Limit	**100.00**
Warning Range Upper Limit	**100.00**
Stop Range Lower Limit	**100.00**
Stop Range Upper Limit	**100.00**
Offset	**Tool Specific**
Calibration	**0.00**
Setting Band	**100.00**
Setting Determination Time	**60.0**
Setting Time-out Time	**600.0**

*** Portland / Ireland : 1010.00hPa**
*** Phoenix: 970.00hPa**
*** Albuquerque: 840.00hPa**
*** Israel: 1000.00hPa**

4. System Configuration Parameter, Arm

Block 1 CS Block

1-0 CSB Arm

Reserved Flag	**Invalid**
Fork Simultaneous Swapping Level	**Invalid**
Wafer Store Count	**1**
Start Slot	**0**

Position Data

Item	Set Value	Unit
X1-axis Access Reference Point	**-75**	pulse
X1-axis Wafer Check Position	**-75**	pulse
Y-axis Maintenance Position	**0**	pulse
Z-axis Maintenance Position	**50000**	pulse
Theta-axis Maintenance Position	**0**	pulse
X1-axis Pulse Rate	**0.007325**	mm/pulse
Y-axis Pulse Rate	**0.004883**	mm/pulse
Z-axis Pulse Rate	**0.005771**	mm/pulse
Theta-axis Pulse Rate	**0.00165**	deg/pulse

Transfer Arm Control Parameter

Item / Axis	X1	Y	Z	Theta
Movement between Modules Speed	**100**	**100**	**100**	**100**
Wafer OUT Speed	**100**	**100**	**N/A**	**100**
Wafer IN Speed	**100**	**100**	**N/A**	**100**
Maintenance Speed	**50**	**50**	**50**	**50**
Inching Speed	**50**	**50**	**50**	**50**
Multiple Axes Synchronous Control of Movement between modules	**Invalid**	**Valid**	**Valid**	**Valid**
IP Zone at Wafer OUT	**N/A**	**N/A**	**0**	**N/A**
IP Zone at Wafer IN	**N/A**	**N/A**	**0**	**N/A**

Fork1

Item	FOUP	All Others
Z-axis Receive Stroke	**1160**	**1600**
Z-axis Receive Stroke Movement Speed	**100%**	**100%**
X-axis Receive Stroke Movement Speed	**100%**	**100%**
Z-axis Send Stroke	**1160**	**1600**
Z-axis Send Stroke Movement Speed	**100%**	**100%**
X-axis Send Stroke Movement Speed	**100%**	**100%**

X axis Position & Offset

Arm	Module	X Send Position	X Receive Position	Offset (X Receive - X Send)
1-0 CRA	FOUP	CCD Center - **205** pulse	CCD Center + **478** pulse	**683** pulse
	All Others	CCD Center - **27** pulse	CCD Center + **341** pulse	**368** pulse

Y, Z and Theta axis Offset

Arm	Module	Offset (Y Receive - Y Send)	Offset (Z Send - Z Receive)	Offset (Th Receive - Th Send)
1-0 CRA	FOUP	**0** pulse	**1160** pulse	**0** pulse
	All Others	**0** pulse	**1600** pulse	**0** pulse

1-X FOUP UST

Reserved Flag	**Invalid**
Fork Simultaneous Swapping Level	**Invalid**
Wafer Store Count	**25**
Start Slot	**1**

Wafer Information

Wafer Thickness	**800 um**
Thickness (+) Range	**60%**
Thickness (-) Range	**50%**

Mapping Data

Pitch between Slots	**480**
Mapping Type	**Carrier**
Mapping Start Position	**-100**
Mapping End Position	**12100**
Slot Recognition Position	**Tool Specific**
Standby Position	**15400**

4. System Configuration Parameter, Arm

Block 2, 7 MP Block

2-0 / 7-0 MRB Arm

Reserved Flag	**Invalid**
Fork Simultaneous Swapping Level	**Invalid**
Wafer Store Count	**1**
Start Slot	**0**

Module Type

Immersion/DRY Value	**VMPRA**
6x6 Value for 2-0	**VMPRA (Z Long)**

Position Data

Item	Set Value	Unit
X1-axis Access Reference Point	**1**	pulse
X1-axis Wafer Check Position	**Tool Specific (<1700)**	pulse
Z-axis Maintenance Position	**0**	pulse
X1-axis Pulse Rate	**0.007325**	mm/pulse
Z-axis Pulse Rate	**0.009766**	mm/pulse

Transfer Arm Control Parameter

Item / Axis	X1	Z
Movement between Modules Speed	**100**	**100**
Wafer OUT Speed	**100**	**N/A**
Wafer IN Speed	**100**	**N/A**
Maintenance Speed	**45**	**50**
Inching Speed	**50**	**40**
Multiple Axes Synchronous Control of Movement between modules	**Invalid**	**Valid**
IP Zone at Wafer OUT	**N/A**	**100**
IP Zone at Wafer IN	**N/A**	**100**

Fork1

Item	SCPL	All Others
Z-axis Receive Stroke	**2410**	**1840**
Z-axis Receive Stroke Movement Speed	**50%**	**50%**
X-axis Receive Stroke Movement Speed	**100%**	**100%**
Z-axis Send Stroke	**2410**	**1840**
Z-axis Send Stroke Movement Speed	**80%**	**80%**
X-axis Send Stroke Movement Speed	**100%**	**100%**

X and Z axis Position & Offset

Arm	Module	X Send Position	X Receive Position	Offset (X Receive - X Send)	Offset (Z Send - Z Receive)
2-0 / 7-0 MRA	All Others	CCD Center - **27** pulse	**CCD Center**	**27** pulse	**1840** pulse
	SCPL				**2410** pulse

*** In non existing or reserved modules, values are allowed to be 0.**

4. System Configuration Parameter, Arm

Block 3, 4, 5, 6 PR Block

3-0 / 4-0 / 5-0 / 6-0 PRB Arm

Reserved Flag	**Invalid**
Fork Simultaneous Swapping Level	**1-2**
Wafer Store Count	**2**
Start Slot	**0**

Module Type

Value	**VPRA**

Position Data

Item	Set Value	Unit
X1-axis Access Reference Point	**1**	pulse
X1-axis Wafer Check Position	**Tool Specific (<1700)**	pulse
X2-axis Access Reference Point	**1**	pulse
X2-axis Wafer Check Position	**Tool Specific (<1700)**	pulse
Y-axis Maintenance Position	**213000**	pulse
Z-axis Maintenance Position	**2900**	pulse
Theta-axis Maintenance Position	**0**	pulse
X1-axis Pulse Rate	**0.007325**	mm/pulse
X2-axis Pulse Rate	**0.007325**	mm/pulse
Y-axis Pulse Rate	**0.007812**	mm/pulse
Z-axis Pulse Rate	**0.007053**	mm/pulse
Theta-axis Pulse Rate	**0.001663**	deg/pulse

Transfer Arm Control Parameter

Item / Axis	X1	X2	Y	Theta	Z
Movement between Modules Speed	**100%**	**100%**	**100%**	**100%**	**100%**
Wafer OUT Speed	**80%**	**80%**	**100%**	**100%**	**N/A**
Wafer IN Speed	**80%**	**80%**	**100%**	**100%**	**N/A**
Maintenance Speed	**50%**	**50%**	**50%**	**50%**	**50%**
Auto Temperature Adjustment Speed	**50%**	**50%**	**70%**	**80%**	**50%**
Inching Speed	**50%**	**50%**	**50%**	**50%**	**50%**
Multiple Axes Synchronous Control of Movement	**Invalid**	**Invalid**	**Invalid**	**Valid**	**Valid**
IP Zone at Wafer OUT	**N/A**	**N/A**	**N/A**	**N/A**	**100**
IP Zone at Wafer IN	**N/A**	**N/A**	**N/A**	**N/A**	**100**

Fork1 and 2

Item	CPL / TRS	DEV/COT/BCT/NTD	CPHP / CADH /CPRP / CGCH	SCPL	SBU	CWH
Z-axis Receive Stroke	**2550**	**2550**	**3330**	**3330**	**2550**	**2550**
Z-axis Receive Stroke Movement Speed	**100%**	**100%**	**80%**	**40%**	**100%**	**100%**
X-axis Receive Stroke Movement Speed	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**
Z-axis Send Stroke	**2550**	**2550**	**3330**	**3330**	**2550**	**2550**
Z-axis Send Stroke Movement Speed	**80%**	**80%**	**100%**	**100%**	**80%**	**80%**
X-axis Send Stroke Movement Speed	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**

Z-axis Multistep Movement

Item	CPL / TRS	DEV/COT/BCT/NTD	CPHP / CADH /CPRP / CGCH	SCPL	SBU	CWH
Valid, Invalid	**Valid**	**Valid**	**Valid**	**Valid**	**Valid**	**Invalid**
Slow Speed Start Position Offset	**820**	**820**	**820**	**820**	**820**	**820**
Slow Speed End Position Offset	**960**	**960**	**960**	**960**	**960**	**960**
Slow Speed	**50%**	**50%**	**50%**	**50%**	**50%**	**50%**
High Speed	**80%**	**80%**	**80%**	**80%**	**80%**	**50%**

Z-axis Multistep Movement (Receive) - Softlanding function installed tool only

	CPL / TRS	DEV/COT/BCT/NTD	CPHP / CADH /CPRP / CGCH	SCPL	SBU	CWH
Valid, Invalid	**Valid**	**Valid**	**Valid**	**Valid**	**Valid**	**Invalid**
Slow Speed Start Position Offset	**1700**	**1700**	**2480**	**2130**	**1700**	**1700**
Slow Speed End Position Offset	**1840**	**1840**	**2620**	**2270**	**1840**	**1840**
Slow Speed	**50%**	**50%**	**50%**	**50%**	**50%**	**50%**
High Speed	**80%**	**80%**	**80%**	**80%**	**80%**	**50%**

Z-axis Multistep Movement (Send) - Softlanding function installed tool only

	CPL / TRS	DEV/COT/BCT/NTD	CPHP / CADH /CPRP / CGCH	SCPL	SBU	CWH
Valid, Invalid	**Valid**	**Valid**	**Valid**	**Valid**	**Valid**	**Invalid**
Slow Speed Start Position Offset	**820**	**820**	**820**	**820**	**820**	**820**
Slow Speed End Position Offset	**960**	**960**	**960**	**960**	**960**	**960**
Slow Speed	**50%**	**50%**	**50%**	**50%**	**50%**	**50%**
High Speed	**80%**	**80%**	**80%**	**80%**	**80%**	**50%**

4. System Configuration Parameter, Arm

Block 3, 4, 5, 6 PR Block

3-0 / 4-0 / 5-0 / 6-0 PRB Arm

X axis Position & Offset

Arm	Module	X Send Position	X Receive Position	Offset (X Receive - X Send)
3,4,5,6-0 PRA	All Modules	CCD Center - **27** pulse	**CCD Center**	**27** pulse

*** In non existing or reserved modules, values are allowed to be 0.**

*** PRB ARM 5-0 is for TD Config. ONLY**

Y, Z and Theta axis Offset

Arm	Module	Offset (Y Receive - Y Send)	Offset (Z Send - Z Receive)	Offset (Th Receive - Th Send)
3,4,5,6-0 PRA	DEV / COT CPL / TRS / SBU / CWH	**0** pulse	**2550** pulse	**0** pulse
	CGCH / CPRP / CPHP CADH / SCPL	**0** pulse	**3330** pulse	**0** pulse

*** In non existing or reserved modules, values are allowed to be 0.**

Block 8 IPB-Immersion Configuration ONLY

8-0 IPB Arm

Reserved Flag	**Invalid**
Fork Simultaneous Swapping Level	**1-2**
Wafer Store Count	**2**
Start Slot	**0**

Module Type

Value	**VPRAI**

Position Data

Item	Set Value	Unit
X1-axis Access Reference Point	**1**	pulse
X1-axis Wafer Check Position	**Tool Specific (<1700)**	pulse
X2-axis Access Reference Point	**1**	pulse
X2-axis Wafer Check Position	**Tool Specific (<1700)**	pulse
Z-axis Maintenance Position	**220000**	pulse
Theta-axis Maintenance Position	**0**	pulse
X1-axis Pulse Rate	**0.007325**	mm/pulse
X2-axis Pulse Rate	**0.007325**	mm/pulse
Z-axis Pulse Rate	**0.007053**	mm/pulse
Theta-axis Pulse Rate	**0.001663**	deg/pulse

4. System Configuration Parameter, Arm

Block 8 IPB-Immersion Configuration ONLY

Transfer Arm Control Parameter

Item / Axis	X1	X2	Theta	Z
Movement between Modules Speed	**100**	**100**	**100**	**100**
Wafer OUT Speed	**80**	**80**	**100**	**N/A**
Wafer IN Speed	**80**	**80**	**100**	**N/A**
Maintenance Speed	**50**	**50**	**50**	**50**
Auto Temperature Adjustment Speed	**50**	**50**	**80**	**50**
Inching Speed	**50**	**50**	**50**	**50**
Multiple Axes Synchronous Control of Movement	**Invalid**	**Invalid**	**Valid**	**Valid**
IP Zone at Wafer OUT	**N/A**	**N/A**	**N/A**	**100**
IP Zone at Wafer IN	**N/A**	**N/A**	**N/A**	**100**

Fork1 and 2

Item	PIR	SRS	TRS	ISHU	CPL
Z-axis Receive Stroke	**2550**	**2550**	**2550**	**2550**	**2550**
Z-axis Receive Stroke Movement Speed	**100%**	**100%**	**100%**	**100%**	**100%**
X-axis Receive Stroke Movement Speed	**100%**	**100%**	**100%**	**100%**	**100%**
Z-axis Send Stroke	**2550**	**2550**	**2550**	**2550**	**2550**
Z-axis Send Stroke Movement Speed	**80%**	**80%**	**80%**	**80%**	**80%**
X-axis Send Stroke Movement Speed	**100%**	**100%**	**100%**	**100%**	**100%**

Z-axis Multistep Movement

Item	PIR	SRS	TRS	ISHU	CPL
Valid, Invalid	**Valid**	**Valid**	**Valid**	**Valid**	**Valid**
Slow Speed Start Position Offset	**820**	**820**	**820**	**820**	**820**
Slow Speed End Position Offset	**960**	**960**	**960**	**960**	**960**
Slow Speed	**50%**	**50%**	**50%**	**50%**	**50%**
High Speed	**80%**	**80%**	**80%**	**80%**	**80%**

Z-axis Multistep Movement (Receive) - Softlanding function installed tool only

	PIR	SRS	TRS	ISHU	CPL
Valid, Invalid	**Valid**	**Valid**	**Valid**	**Valid**	**Valid**
Slow Speed Start Position Offset	**1700**	**1700**	**1700**	**1700**	**1700**
Slow Speed End Position Offset	**1840**	**1840**	**1840**	**1840**	**1840**
Slow Speed	**50%**	**50%**	**50%**	**50%**	**50%**
High Speed	**80%**	**80%**	**80%**	**80%**	**80%**

Z-axis Multistep Movement (Send) - Softlanding function installed tool only

	PIR	SRS	TRS	ISHU	CPL
Valid, Invalid	**Valid**	**Valid**	**Valid**	**Valid**	**Valid**
Slow Speed Start Position Offset	**820**	**820**	**820**	**820**	**820**
Slow Speed End Position Offset	**960**	**960**	**960**	**960**	**960**
Slow Speed	**50%**	**50%**	**50%**	**50%**	**50%**
High Speed	**80%**	**80%**	**80%**	**80%**	**80%**

X axis Position & Offset

Arm	Module	X Send Position	X Receive Position	Offset (X Receive - X Send)
8-0 PRAI	All Others	CCD Center - **27** pulse	**CCD Center**	**27** pulse

*** In non existing or reserved modules, values are allowed to be 0.**

Z and Theta axis Offset

Arm	Module	Offset (Z Send - Z Receive)	Offset (Th Receive - Th Send)
8-0 PRAI	All Module	**2550** pulse	**0** pulse

*** In non existing or reserved modules, values are allowed to be 0.**

4. System Configuration Parameter, Arm

Block 9 IFB Sub (Immersion) and Block 8 IRA (DRY)

9-0 IFBSIArm

Reserved Flag	**Invalid**
Fork Simultaneous Swapping Level	**Invalid**
Wafer Store Count	*
Start Slot	**0**

* = 1 for Dry / 2 for Immersion Systems

Module Type

Value	*

* = VIRAi for Immersion / VIRAS for DRY

Position Data

Item	Set Value	Unit
X1-axis Access Reference Point	*	pulse
X1-axis Wafer Check Position	**Tool Specific**	pulse
X2-axis Access Reference Point--Immersion	*	pulse
X2-axis Wafer Check Position--Immersion	**Tool Specific**	pulse
Y-axis Maintenance Position	**0**	pulse
Z-axis Maintenance Position	**50000**	pulse
Theta-axis Maintenance Position	**0**	pulse
X1-axis Pulse Rate	**0.007325**	mm/pulse
X2-axis Pulse Rate	**0.007325**	mm/pulse
Y-axis Pulse Rate	**0.004883**	mm/pulse
Z-axis Pulse Rate	**0.005771**	mm/pulse
Theta-axis Pulse Rate	**0.001663**	deg/pulse

*= Dry tool IRA [-75] Wet tool IRAi [-340]

Transfer Arm Control Parameter

Item / Axis	X1	X2*	Y	Z	Theta
Movement between Modules Speed	**100**	**100**	**100**	**100**	**100**
Wafer OUT Speed	**100**	**100**	**100**	**N/A**	**100**
Wafer IN Speed	**100**	**100**	**100**	**N/A**	**100**
Maintenance Speed	**50**	**50**	**50**	**50**	**50**
Inching Speed	**50**	**50**	**50**	**50**	**50**
Multiple Axes Synchronous Control of Movement	**Invalid**	**Invalid**	**Valid**	**Valid**	**Valid**
IP Zone at Wafer OUT	**N/A**	**N/A**	**N/A**	**0**	**N/A**
IP Zone at Wafer IN	**N/A**	**N/A**	**N/A**	**0**	**N/A**

*= Does not exist for DRY tools

Fork1 and 2*

Item	CPL	TRS	RSM	EIF	ISHU
Z-axis Receive Stroke	**1600**	**1600**	**1600****	**1250**	**1600**
Z-axis Receive Stroke Movement Speed	**100%**	**100%**	**100%**	**100%**	**100%**
X-axis Receive Stroke Movement Speed	**100%**	**100%**	**100%**	**100%**	**100%**
Z-axis Send Stroke	**1600**	**1600**	**1600 ****	**1250**	**1600**
Z-axis Send Stroke Movement Speed	**100%**	**100%**	**100%**	**100%**	**100%**
X-axis Send Stroke Movement Speed	**100%**	**100%**	**100%**	**100%**	**100%**

*=DRY Configuration IRA only has 1 Fork

**= 1210 for DRY 1600 for Immersion

X axis Position & Offset (Immersion)

Arm	Module	X Send Position	X Receive Position	Offset (X Receive - X Send)
9-0 IRAI	CPL / TRS / RSM	CCD Center - **27** pulse	CCD Center +**341** pulse	**368** pulse
	EIF	**Stage Center (In Stage)**	**Stage Center (Out Stage)**	**Tool Specific**

X axis Position & Offset (DRY)

Arm	Module	X Send Position	X Receive Position	Offset (X Receive - X Send)
8-0 IRAS	CPL / TRS / RSM / ISHU	CCD Center - **27** pulse	CCD Center + **341** pulse	**368** pulse
	EIF	**Stage Center (In Stage)**	**Stage Center (Out Stage)**	**Tool Specific**

*** At the ASML's EIF, need to find out center position with their Re-alignment function at each pedestals (In & Out). Then input offset value to out pedestal center position.**

**** In non existing or reserved modules, values are allowed to be 0.**

Y, Z and Theta axis Offset (Immersion)

Arm	Module	Offset (Y Receive - Y Send)	Offset (Z Send - Z Receive)	Offset (Th Receive - Th Send)
9-0 IRAI	CPL / TRS / RSM	**0** pulse	**1600** pulse	**0** pulse
	EIF	**Tool Specific**	**Tool Specific**	**Tool Specific**

Y, Z and Theta axis Offset (DRY)

Arm	Module	Offset (Y Receive - Y Send)	Offset (Z Send - Z Receive)	Offset (Th Receive - Th Send)
8-0 IRAS	CPL / TRS / ISHU	**0** pulse	**1600** pulse	**0** pulse
	RSM	**0** pulse	**1210** pulse	**0** pulse
	EIF	**Tool Specific**	**Tool Specific**	**Tool Specific**

5.1. System Config Parameter, Spinners (DEV)

Block 3 PR Block, Developers [3-1] - [3-8] for 8x0 PTD
Block 3 PR Block, Developers [3-1] - [3-4] for 4x4 PTD
Block 3/5 PR Block, Developers [3-1/2/5/6 - 5-1/2] for 6x6 PTD

Reserved Flag	**Invalid**
Fork Simultaneous Swapping Level	**1-2**
Wafer Store Count	**1**
Start Slot	**0**

Dispense Parameter
Shared Nozzle

DEV NOZZLE [1] = MGP Nozzle

Process Recipe Attribute	**Valid**
Dummy Dispense Attribute	**Valid**
Nozzle Pattern No	**Tool Specific**

Dispense Mechanism Connection [1]

Valid, Invalid	**Valid**

Dispense Monitoring Mechanism Connection

Valid, Invalid	**Valid**

Fin flow type 1

Dispense Monitoring Type	**Fin flow type 1**

Supply System

Valid, Invalid	**Valid**

DEV.SOLU.1 Supply System - [Tool Specific]

Refill Monitoring Time	**180**
Pre-Refill Decompress Time	**20.0**
Post-Refill Vent Time	**1.0**
Post-Refill Pressurize Time	**15.0**
Post-Refill Depressurize Time	**60.0**
Post-Refill Delay Time	**1**
N2 Dissolution Monitoring Time	**0**
Tank Switch during Dispensing	**Valid**

CSS Refill System

Valid, Invalid	**Valid**

FailsafeValve

Failsafe Valve Close Delay Time	**0.0 sec**

Dispense Monitoring Control Data

Pulse Rate	**0.05**
Delay Time	**0.6**
Set Flow Rate	**600**
Flow Rate Sensor Check Timing	**Dispense end**
Calibration 1	**1.00**
Offset	**0**
Upper Limit Error Level	**30.00%**
Upper Limit Warning Level	**20.00%**
Lower Limit Error Level	**30.00%**
Lower Limit Warning Level	**20.00%**
Dummy Dispense Flow Rate Monitoring Valid/Invalid	**Valid**
Monitoring Flow Rate Upper Limit for Short Time Dispense	**Execute**
Flow Rate Upper Limit Non-monitoring Time for Short Time Dispense	**1.0**

5.1. System Config Parameter, Spinners (DEV)

DEV NOZZLE 4

Process Recipe Attribute	**Valid**
Dummy Dispense Attribute	**Valid**
Nozzle Pattern No	**Tool Specific**

Dispense Mechanism Connection [1]

Valid, Invalid	**Valid**

Dispense Monitoring Mechanism Connection

Valid, Invalid	**Valid**

Fin flow type 1

Dispense Monitoring Type	**Fin flow type 1**

Supply System

Valid, Invalid	**Valid**

DEV.SOLU.1 Supply System - [Tool Specific]

Refill Monitoring Time	**180**
Pre-Refill Decompress Time	**20.0**
Post-Refill Vent Time	**1.0**
Post-Refill Pressurize Time	**15.0**
Post-Refill Depressurize Time	**60.0**
Post-Refill Delay Time	**1**
N2 Dissolution Monitoring Time	**0**
Tank Switch during Dispensing	**Valid**

CSS Refill System

Valid, Invalid	**Valid**

FailsafeValve

Failsafe Valve Close Delay Time	**0.0 sec**

Dispense Monitoring Control Data

Pulse Rate	**0.05**
Delay Time	**0.60**
Set Flow Rate	**300**
Flow Rate Sensor Check Timing	**Dispense End**
Calibration 1	**1.00**
Offset	**0**
Upper Limit Error Level	**20.00%**
Upper Limit Warning Level	**15.00%**
Lower Limit Error Level	**20.00%**
Lower Limit Warning Level	**15.00%**
Dummy Dispense Flow Rate Monitoring Valid/Invalid	**Valid**
Monitoring Flow Rate Upper Limit for Short Time Dispense	**Execute**
Flow Rate Upper Limit Non-monitoring Time for Short Time Dispense	**1.0**

5.1. System Config Parameter, Spinners (DEV)

DEV NZL.4 Sub

Process Recipe Attribute	**Valid**
Dummy Dispense Attribute	**Valid**
Nozzle Pattern No	**Tool Specific**

Dispense Mechanism Connection [1]

Valid, Invalid	**Valid**

Dispense Monitoring Mechanism Connection

Valid, Invalid	**Valid**

Fin flow type 1

Dispense Monitoring Type	**Fin flow type 1**

Supply System

Valid, Invalid	**Valid**

DEV.SOLU.1 Supply System - [Tool Specific]

Refill Monitoring Time	**180**
Pre-Refill Decompress Time	**20.0**
Post-Refill Vent Time	**1.0**
Post-Refill Pressurize Time	**15.0**
Post-Refill Depressurize Time	**60.0**
Post-Refill Delay Time	**1**
N2 Dissolution Monitoring Time	**0**
Tank Switch during Dispensing	**Valid**

CSS Refill System

Valid, Invalid	**Valid**

FailsafeValve

Failsafe Valve Close Delay Time	**0.0 sec**

Dispense Monitoring Control Data

Pulse Rate	**0.05**
Delay Time	**0.6**
Set Flow Rate	**250**
Flow Rate Sensor Check Timing	**Dispense End**
Calibration 1	**1.00**
Offset	**0**
Upper Limit Error Level	**20.00%**
Upper Limit Warning Level	**15.00%**
Lower Limit Error Level	**20.00%**
Lower Limit Warning Level	**15.00%**
Dummy Dispense Flow Rate Monitoring Valid/Invalid	**Valid**
Monitoring Flow Rate Upper Limit for Short Time Dispense	**Execute**
Flow Rate Upper Limit Non-monitoring Time for Short Time Dispense	**1.0**

5.1. System Config Parameter, Spinners (DEV)

DEV NOZZLE2 → Only present on TNE/TNG prior to HTP upgrade and TBL

Process Recipe Attribute	**Valid**
Dummy Dispense Attribute	**Valid**
Nozzle Pattern No	**Tool Specific**

Dispense Mechanism Connection [1]

Valid, Invalid	**Valid**

Dispense Monitoring Mechanism Connection

Valid, Invalid	**Valid**

Fin flow type 1

Dispense Monitoring Type	**Fin flow type 1**

Supply System

Valid, Invalid	**Valid**

DEV.SOLU.2 Supply System - [Tool Specific]

Refill Monitoring Time	**180**
Pre-Refill Decompress Time	**20.0**
Post-Refill Vent Time	**1.0**
Post-Refill Pressurize Time	**15.0**
Post-Refill Depressurize Time	**60.0**
Post-Refill Delay Time	**1**
N2 Dissolution Monitoring Time	**0**
Tank Switch during Dispensing	**Valid**

CSS Refill System

Valid, Invalid	**Valid**

FailsafeValve

Failsafe Valve Close Delay Time	**0.0 sec**

Dispense Monitoring Control Data

Pulse Rate	**0.05**
Delay Time	**0.60**
Set Flow Rate	**1800**
Flow Rate Sensor Check Timing	**Dispense end**
Calibration 1	**1.00**
Offset	**0**
Upper Limit Error Level	**30.00%**
Upper Limit Warning Level	**20.00%**
Lower Limit Error Level	**30.00%**
Lower Limit Warning Level	**20.00%**
Dummy Dispense Flow Rate Monitoring Valid/Invalid	**Valid**
Monitoring Flow Rate Upper Limit for Short Time Dispense	**Execute**
Flow Rate Upper Limit Non-monitoring Time for Short Time Dispense	**1.0**

DEV NZL2(BYPASS) Only present on TNE/TNG prior to HTP upgrade and TBL

Process Recipe Attribute	**Valid**
Dummy Dispense Attribute	**Valid**
Nozzle Pattern No	**Tool Specific**

Dispense Mechanism Connection [1]

Valid, Invalid	**Valid**

Dispense Monitoring Mechanism Connection

Valid, Invalid	**Valid**

Fin flow type 1

Dispense Monitoring Type	**Fin flow type 1**

Supply System

Valid, Invalid	**Valid**

5.1. System Config Parameter, Spinners (DEV)

DEV.SOLU.2 Supply System - [Tool Specific]

Refill Monitoring Time	**180**
Pre-Refill Decompress Time	**20.0**
Post-Refill Vent Time	**1.0**
Post-Refill Pressurize Time	**15.0**
Post-Refill Depressurize Time	**60.0**
Post-Refill Delay Time	**1**
N2 Dissolution Monitoring Time	**0**
Tank Switch during Dispensing	**Valid**

CSS Refill System

Valid, Invalid	**Valid**

FailsafeValve

Failsafe Valve Close Delay Time	**0.0 sec**

Dispense Monitoring Control Data

Pulse Rate	**0.05**
Delay Time	**0.60**
Set Flow Rate	**250**
Flow Rate Sensor Check Timing	**Dispense end**
Calibration 1	**1.00**
Offset	**0**
Upper Limit Error Level	**30.00%**
Upper Limit Warning Level	**20.00%**
Lower Limit Error Level	**30.00%**
Lower Limit Warning Level	**20.00%**
Dummy Dispense Flow Rate Monitoring Valid/Invalid	**Valid**
Monitoring Flow Rate Upper Limit for Short Time Dispense	**Execute**
Flow Rate Upper Limit Non-monitoring Time for Short Time Dispense	**1.0**

DEV NZL2(AIRVNT) Only present on TNE/TNG prior to HTP upgrade and TBL

Process Recipe Attribute	**Valid**
Dummy Dispense Attribute	**Valid**

Dispense Mechanism Connection [1]

Valid, Invalid	**Valid**

DEV NZL2(RINSE) Only present on TNE/TNG prior to HTP upgrade and TBL

Process Recipe Attribute	**Valid**
Dummy Dispense Attribute	**Valid**

Dispense Mechanism Connection [1]

Valid, Invalid	**Valid**

Dispense Monitoring Mechanism Connection

Valid, Invalid	**Valid**

Fin flow type 1

Dispense Monitoring Type	**Fin flow type 1**

Dispense Monitoring Control Data

Pulse Rate	**0.05**
Delay Time	**0.60**
Set Flow Rate	**2500**
Flow Rate Sensor Check Timing	**Dispense end**
Calibration 1	**1.00**
Offset	**0**
Upper Limit Error Level	**30.00%**
Upper Limit Warning Level	**20.00%**
Lower Limit Error Level	**30.00%**
Lower Limit Warning Level	**20.00%**
Dummy Dispense Flow Rate Monitoring Valid/Invalid	**Valid**
Monitoring Flow Rate Upper Limit for Short Time Dispense	**Execute**
Flow Rate Upper Limit Non-monitoring Time for Short Time Dispense	**1.0**

5.1. System Config Parameter, Spinners (DEV)

BATH EXH. CMN

Process Recipe Attribute	**Valid**
Dummy Dispense Attribute	**Valid**

Dispense Mechanism Connection [1]

Valid, Invalid	**Valid**

BATH EXH. CMN2*

Process Recipe Attribute	**Invalid**
Dummy Dispense Attribute	**Valid**

*Only exist on 4×4 and 8×0 tracks

Dispense Mechanism Connection [1]

Valid, Invalid	**Valid**

DIW NZL.4 Sub

Process Recipe Attribute	**Valid**
Dummy Dispense Attribute	**Valid**
Nozzle Pattern No	**Tool Specific**

Dispense Mechanism Connection [1]

Valid, Invalid	**Valid**

Dispense Monitoring Mechanism Connection

Valid, Invalid	**Valid**

Fin flow type 1

Dispense Monitoring Type	**Fin flow type 1**

Dispense Monitoring Control Data

Pulse Rate	**0.05**
Delay Time	**0.6**
Set Flow Rate	**250**
Flow Rate Sensor Check Timing	**Dispense End**
Calibration 1	**1.00**
Offset	**0**
Upper Limit Error Level	**30.00%**
Upper Limit Warning Level	**20.00%**
Lower Limit Error Level	**30.00%**
Lower Limit Warning Level	**20.00%**
Dummy Dispense Flow Rate Monitoring Valid/Invalid	**Valid**
Monitoring Flow Rate Upper Limit for Short Time Dispense	**Execute**
Flow Rate Upper Limit Non-monitoring Time for Short Time Dispense	**1.0**

EXH DRAIN PUMP

Process Recipe Attribute	**Invalid**
Dummy Dispense Attribute	**Valid**

Dispense Mechanism Connection [1]

Valid, Invalid	**Valid**

5.1. System Config Parameter, Spinners (DEV)

Local Nozzle

ADR1 RINSE

Process Recipe Attribute	**Valid**
Dummy Dispense Attribute	**Valid**
Nozzle Pattern No	**Tool Specific**

Dispense Mechanism Connection

Valid, Invalid	**Valid**

Dispense Monitoring Mechanism Connection

Valid, Invalid	**Valid**

Fin flow type 1

Dispense Monitoring Type	**Fin flow type 1**

Dispense Monitoring Control Data

Pulse Rate	**0.05**
Delay time	**0.60**
Set Flow Rate	**350**
Flow Rate Sensor Check Timing	**Dispense end**
Calibration 1	**1.00**
Offset	**0**
Upper Limit Error Level	**30.00%**
Upper Limit Warning Level	**20.00%**
Lower Limit Error Level	**30.00%**
Lower Limit Warning Level	**20.00%**
Dummy Dispense Flow Rate Monitoring Valid/Invalid	**Valid**
Monitoring Flow Rate Upper Limit for Short Time Dispense	**Execute**
Flow Rate Upper Limit Non-monitoring Time for Short Time Dispense	**1.0**

Flow Rate during Dispense Process*

Invalidated Flow Rate Monitoring Times during Dispense Process	**2**
Upper Limit Error Level for Flow Rate during Dispense Process	**30.00%**
Lower Limit Error Level for Flow Rate during Dispense Process	**30.00%**

* Tools with XDR ONLY

ADR1 N2

Process Recipe Attribute	**Valid**
Dummy Dispense Attribute	**Valid**

Dispense Mechanism Connection [1]

Valid, Invalid	**Valid**

Unexpected Pressure Watch

Unexpected Pressure Watch Valid	**Valid**
Delay Time Before Unexpected Press Watch	**3.0**

5.1. System Config Parameter, Spinners (DEV)

WATER SEAL

Process Recipe Attribute	**Invalid**
Dummy Dispense Attribute	**Valid**

Dispense Mechanism Connection [1]

Valid, Invalid	**Valid**

Dispense Monitoring Mechanism Connection

Valid, Invalid	**Valid**

Fin flow type 1

Dispense Monitoring Type	**Fin flow type 1**

Dispense Monitoring Control Data

Pulse Rate	**0.005**
Delay time	**0.6**
Set Flow Rate	**100**
Flow Rate Sensor Check Timing	**Dispense end**
Calibration 1	**1.00**
Offset	**0**
Upper Limit Error Level	**0.00%**
Upper Limit Warning Level	**0.00%**
Lower Limit Error Level	**80.00%**
Lower Limit Warning Level	**40.00%**
Dummy Dispense Flow Rate Monitoring Valid/Invalid	**Valid**
Monitoring Flow Rate Upper Limit for Short Time Dispense	**Not Execute**
Flow Rate Upper Limit Non-monitoring Time for Short Time Dispense	**1.0**

FIRM 1 - IF PRESENT

Process Recipe Attribute	**Valid**
Dummy Dispense Attribute	**Valid**
Nozzle Pattern No	**Tool Specific**

Dispense Mechanism Connection [1]

Valid, Invalid	**Valid**

Dispense Monitoring Mechanism Connection

Valid, Invalid	**Valid**

Fin flow type 1

Dispense Monitoring Type	**Fin flow type 1**

Supply System

Valid, Invalid	**Valid**

FIRM 1 Supply System - [Tool Specific]

Refill Monitoring Time	**180**
Pre-Refill Decompress Time	**20.0**
Post-Refill Vent Time	**1.0**
Post-Refill Pressurize Time	**15.0**
Post-Refill Depressurize Time	**30.0**
Post-Refill Delay Time	**1**
N2 Dissolution Monitoring Time	**33**

CSS Refill System

Valid, Invalid	**Valid**

FailsafeValve

Failsafe Valve Close Delay Time	**0.0 sec**

Container Refill System

Valid, Invalid	**Invalid**

Automatic Air Vent

Air Vent Monitoring Time	**30 sec**
Delay Time After LE Detection	**3 sec**
Prior Pressurization Time	**5 sec**

5.1. System Config Parameter, Spinners (DEV)

Dispense Monitoring Control Data

Pulse Rate	**0.05**
Delay Time	**0.6**
Set Flow Rate	**240**
Flow Rate Sensor Check Timing	**Dispense End**
Calibration 1	**1.00**
Offset	**0**
Upper Limit Error Level	**30.00%**
Upper Limit Warning Level	**20.00%**
Lower Limit Error Level	**30.00%**
Lower Limit Warning Level	**20.00%**
Dummy Dispense Flow Rate Monitoring Valid/Invalid	**Valid**
Monitoring Flow Rate Upper Limit for Short Time Dispense	**Execute**
Flow Rate Upper Limit Non-monitoring Time for Short Time Dispense	**1.0**

RINSE 1

Process Recipe Attribute	**Valid**
Dummy Dispense Attribute	**Valid**
Nozzle Pattern No	**Tool Specific**

Dispense Mechanism Connection [1]

Valid, Invalid	**Valid**

Dispense Monitoring Mechanism Connection

Valid, Invalid	**Valid**

Fin flow type 1

Dispense Monitoring Type	**Fin flow type 1**

Dispense Monitoring Control Data

Pulse Rate	**0.05**
Delay Time	**0.6**
Set Flow Rate	**1000**
Flow Rate Sensor Check Timing	**Dispense end**
Calibration 1	**1.00**
Offset	**0**
Upper Limit Error Level	**30.00%**
Upper Limit Warning Level	**20.00%**
Lower Limit Error Level	**30.00%**
Lower Limit Warning Level	**20.00%**
Dummy Dispense Flow Rate Monitoring Valid/Invalid	**Valid**
Monitoring Flow Rate Upper Limit for Short Time Dispense	**Execute**
Flow Rate Upper Limit Non-monitoring Time for Short Time Dispense	**1.0**

Flow Rate during Dispense Process*

Invalidated Flow Rate Monitoring Times during Dispense Process	**2**
Upper Limit Error Level for Flow Rate during Dispense Process	**30.00%**
Lower Limit Error Level for Flow Rate during Dispense Process	**30.00%**

* Tools with XDR ONLY

5.1. System Config Parameter, Spinners (DEV)

BACK RINSE1

Process Recipe Attribute	**Valid**
Dummy Dispense Attribute	**Invalid**

Dispense Mechanism Connection [1]

Valid, Invalid	**Valid**

Dispense Monitoring Mechanism Connection

Valid, Invalid	**Valid**

Fin flow type 1

Dispense Monitoring Type	**Fin flow type 1**

Dispense Monitoring Control Data

Pulse Rate	**0.005**
Delay Time	**0.6**
Set Flow Rate	**200**
Flow Rate Sensor Check Timing	**Dispense end**
Calibration 1	**1.00**
Offset	**0**
Upper Limit Error Level	**30.00%**
Upper Limit Warning Level	**20.00%**
Lower Limit Error Level	**30.00%**
Lower Limit Warning Level	**20.00%**
Dummy Dispense Flow Rate Monitoring Valid/Invalid	**Invalid**
Monitoring Flow Rate Upper Limit for Short Time Dispense	**Execute**
Flow Rate Upper Limit Non-monitoring Time for Short Time Dispense	**1.0**

CUP EXH.

Process Recipe Attribute	**Valid**
Dummy Dispense Attribute	**Invalid**

Dispense Mechanism Connection [1]

Valid, Invalid	**Valid**

Spinner Exhaust Monitoring Control Data

High Pressure	**0.00**
High Pressure (Error Lower Limit)	**0.00**
Low Pressure	**0.00**
Low Pressure (Error Upper Limit)	**0.00**
Cup EXH. Monitoring Start Delay Time	**2000**
Offset	**0.0**
Cup EXH. Monitoring Valid(1)/Invalid(0)	**0**

5.1. System Config Parameter, Spinners (DEV)

XDR1 N2

Process Recipe Attribute	**Valid**
Dummy Dispense Attribute	**Valid**

Dispense Mechanism Connection [1]

Valid, Invalid	**Valid**

Unexpected Pressure Watch

Unexpected Pressure Watch Valid	**Valid**
Delay Time Before Unexpected Press Watch	**3.0**

XDR1 RINSE

Process Recipe Attribute	**Valid**
Dummy Dispense Attribute	**Valid**
Nozzle Pattern No	**Tool Specific**

Dispense Mechanism Connection

Valid, Invalid	**Valid**

Dispense Monitoring Mechanism Connection

Valid, Invalid	**Valid**

Fin flow type 1

Dispense Monitoring Type	**Fin flow type 1**

Dispense Monitoring Control Data

Pulse Rate	**0.05**
Delay time	**0.60**
Set Flow Rate	**430**
Flow Rate Sensor Check Timing	**In dispense + Dispense end**
Calibration 1	**1.00**
Offset	**0**
Upper Limit Error Level	**30.00%**
Upper Limit Warning Level	**20.00%**
Lower Limit Error Level	**30.00%**
Lower Limit Warning Level	**20.00%**
Dummy Dispense Flow Rate Monitoring Valid/Invalid	**Valid**
Monitoring Flow Rate Upper Limit for Short Time Dispense	**Execute**
Flow Rate Upper Limit Non-monitoring Time for Short Time Dispense	**1.0**

Flow Rate during Dispense Process

Invalidated Flow Rate Monitoring Times during Dispense Process	**2**
Upper Limit Error Level for Flow Rate during Dispense Process	**30.00%**
Lower Limit Error Level for Flow Rate during Dispense Process	**30.00%**

5.1. System Config Parameter, Spinners (DEV)

Block 3 PR Block, Developers [3-5] -[3-8] W/ NTD for 4x4 NTD [TAQ/TNQ]
Block 3/5 PR Block, Developers [3-3,4,7,8] and [5-3,4] for 6x6 NTD [TAR/TNR/TNS/TAS/TAU/TNU/TNK]

Reserved Flag	**Invalid**
Fork Simultaneous Swapping Level	**1-2**
Wafer Store Count	**1**
Start Slot	**0**

Dispense Parameter

Shared Nozzle

EXH DRAIN PUMP

Process Recipe Attribute	**Invalid**
Dummy Dispense Attribute	**Valid**

Dispense Mechanism Connection [1]

Valid, Invalid	**Valid**

Local Nozzle

DEV3(Local Arm) / BEVEL RINSE V2 / RINSE1 / BACK RINSE1

Process Recipe Attribute	**Valid**
Dummy Dispense Attribute	**Valid ***

* Invalid for BACK RINSE1 and BEVEL RINSE V2

Dispense Mechanism Connection [1]

Valid, Invalid	**Valid**

Dispense Monitoring Mechanism Connection

Valid, Invalid	**Valid**

Fin flow type 1

Dispense Monitoring Type	**Fin flow type 1**

CRF Setting**

Valid, Invalid	**Valid**

** DEV3(LocalArm) and RINSE1 of CRF enabled tool

Interval for Circulation**

Valid, Invalid	**Invalid**
Time for Circulation Recovery	**60**
Time for Continuous Circulation	**60**

** DEV3(LocalArm) and RINSE1 of CRF enabled tool

Supply System

Valid, Invalid	**Valid**

DEV.SOLU.2 Supply System / N.T.DEV SOLUTION1 Supply System / N.T.DEV SOLUTION2 Supply System / SOLVENT2 Supply System - [Tool Specific

Item / Dispense	DEV3(Local Arm)	BEVEL RINSE V2	RINSE1	BACK RINSE 1
Refill Monitoring Time	**180**	**180**	**180**	**180**
Pre-Refill Decompress Time	**20.0**	**20.0**	**20.0**	**20.0**
Post-Refill Vent Time	**1.0**	**1.0**	**1.0**	**1.0**
Post-Refill Pressurize Time	**15.0**	**15.0**	**15.0**	**15.0**
Post-Refill Depressurize Time	**60.0**	**60.0**	**60.0**	**60.0**
Post-Refill Delay Time	**1**	**1**	**1**	**1**
N2 Dissolution Monitoring Time	**0**	**0**	**0**	**0**
Vent Time at IFF-S*	**150**	**150**	**150**	**150**
Tank Switch during Dispensing	**Valid**	**Valid**	**Valid**	**Valid**
Return Mode Setting	**Valid**	**Valid**	**Valid**	**Valid**

*= Only Present IFF-S tools

CRF Setting

Wait Time for Circulation Recovery	**240**
Guarantee Time of Continuous Circulation	**60**
Circulation Buffer Pressure Release Time	**1**
Circulation Liquid Vent Monitoring Time	**30**
Pressurization Time for Circulation Switching	**3**
Vent Time for Circulation Switching	**0**
Small-Pressurization Time for Circulation Switching	**1**

CSS Refill System

Valid, Invalid	**Valid**

FailsafeValve

Failsafe Valve Close Delay Time	**0**

5.1. System Config Parameter, Spinners (DEV)

Dispense Monitoring Control Data

Item / Dispense	DEV3(Local Arm)	BEVEL RINSE V2	RINSE1	BACK RINSE 1
Pulse Rate	**0.05**	**0.005**	**0.00333**	**0.005**
Delay Time	**0.60**	**0.60**	**0.60**	**0.60**
Set Flow Rate	**300**	**50**	**120**	**200**
Flow Rate Sensor Check Timing	**Dispense end**	**Dispense End**	**Dispense end**	**Dispense end**
Calibration 1	**1.00**	**1.00**	**1.00**	**1.00**
Offset	**0**	**0**	**0**	**0**
Upper Limit Error Level	**30.00**	**20.00**	**30.00**	**30.00**
Upper Limit Warning Level	**20.00**	**10.00**	**20.00**	**20.00**
Lower Limit Error Level	**30.00**	**20.00**	**30.00**	**30.00**
Lower Limit Warning Level	**20.00**	**10.00**	**20.00**	**20.00**
Dummy Dispense Flow Rate Monitoring Valid/Invalid	**Valid**	**Invalid**	**Valid**	**Invalid**
Monitoring Flow Rate Upper Limit for Short Time Dispense	**Execute**	**Execute**	**Execute**	**Execute**
Flow Rate Upper Limit Non-monitoring Time for Short Time	**1.0**	**1.0**	**1.0**	**1.0**

CUP EXH.

Process Recipe Attribute	**Valid**
Dummy Dispense Attribute	**Invalid**

Dispense Mechanism Connection [1]

Valid, Invalid	**Valid**

Spinner Exhaust Monitoring Control Data

High Pressure	**0.00**
High Pressure (Error Lower Limit)	**0.00**
Low Pressure	**0.00**
Low Pressure (Error Upper Limit)	**0.00**
Cup EXH. Monitoring Start Delay Time	**2000**
Offset	**0.0**
Cup EXH. Monitoring Valid(1)/Invalid(0)	**0**

5.1. System Config Parameter, Spinners (DEV)

NTD FILTDRAIN1* /2* 3*

* - IFF-S Specific

Process Recipe Attribute	**Invalid**
Dummy Dispense Attribute	**Invalid**
IFF-S Supported Nozzle	**Tool Specific**

Dispense Monitoring Mechanism Connection

Valid, Invalid	**Valid**

Dispense Monitoring Mechanism Connection

Valid, Invalid	**Valid**

Fin flow type 1 (3)

Dispense Monitoring Type	**Fin flow type 1**

CRF Setting

Valid, Invalid	**Valid**

Interval for Circulation

Valid, Invalid	**Invalid**
Time for Circulation Recovery	**60**
Time for Continuous Circulation	**60**

Supply System[1]

Valid, Invalid	Valid

SOLVENT-D Supply System

Supply System Type	**Solvent super clean supply sys**
Chemical Name	**SOLVENT-D**
Refill Monitoring Time	**180**
Pre-Refill Decompress Time	**30.0**
Post-Refill Vent Time	**3.0**
Post-Refill Pressurize Time	**15.0**
Post-Refill Depressurize Time	**60.0**
Post-Refill Delay Time	**1**
Vent Time at Chemical Drain	**150**
Filter Replacement Supply System No.	**Tool Specific**

NTD-RFILTDRAIN1* /2* / 3*

* - IFF-S Specific

Process Recipe Attribute	**Invalid**
Dummy Dispense Attribute	**Invalid**
IFF-S Supported Nozzle	**Tool Specific**

Dispense Mechanism Connection

Valid, Invalid	**Valid**

Dispense Monitoring Mechanism Connection

Valid, Invalid	**Valid**

Fin flow type 1 (3)

Dispense Monitoring Type	**Fin flow type 1**

CRF Setting

Valid, Invalid	**Valid**

Interval for Circulation

Valid, Invalid	**Invalid**
Time for Circulation Recovery	**60**
Time for Continuous Circulation	**60**

Supply System[1]

Valid, Invalid	Valid

SOLVENT-A Supply System

Supply System Type	**Solvent super clean supply sys**
Chemical Name	**SOLVENT-A**
Refill Monitoring Time	**180**
Pre-Refill Decompress Time	**30.0**
Post-Refill Vent Time	**1.0**
Post-Refill Pressurize Time	**15.0**
Post-Refill Depressurize Time	**60.0**
Post-Refill Delay Time	**1**
Vent Time at Chemical Drain	**150**
Filter Replacement Supply System No.	**Tool Specific**

5.1. System Config Parameter, Spinners (DEV)

NTD FILTDRAIN1* 2* 3* / NTD-RFILTDRAIN1* 2* 3*

		Filter Replacement Sequence (1)[1]	Filter Replacement Sequence (2)[2]	Filter Replacement Sequence (3)[3]	Filter Replacement Sequence (4)[4]	Filter Replacement Sequence (5)[5]	Filter Replacement Sequence (6)[6]	Filter Replacement Sequence (7)[7]	Filter Replacement Sequence (8)[8]	Filter Replacement Sequence (9)[9]
STEP #	Install Type	1	2	3	4	5	6	7	8	9
	Comment	**IFF-1**	**IFF-2**	**IFF-3**	**IFF-4**	**IFF-5**	**IFF-6**	**IFF-7**	**IFF-8**	**IFF-9**
STEP 1	Process Time	**10**	**10**	**10**	**0**	**0**	**0**	**0**	**0**	**0**
	Pressure Setting	**LL**	**LL**	**LL**	**None**	**None**	**None**	**None**	**None**	**None**
	Process Name	**Hold**	**Hold**	**Hold**	**None**	**None**	**None**	**None**	**None**	**None**
STEP 2	Process Time	**200**	**200**	**200**	**0**	**0**	**0**	**0**	**0**	**0**
	Pressure Setting	**LL**	**LL**	**LL**	**None**	**None**	**None**	**None**	**None**	**None**
	Process Name	**Filter vent**	**Filter vent**	**Filter vent**	**None**	**None**	**None**	**None**	**None**	**None**
STEP 3	Process Time	**640**	**100**	**640**	**0**	**0**	**0**	**0**	**0**	**0**
	Pressure Setting	**L**	**L**	**L**	**None**	**None**	**None**	**None**	**None**	**None**
	Process Name	**Filter out**	**Filter out**	**Filter out**	**None**	**None**	**None**	**None**	**None**	**None**
STEP 4	Process Time	**600**	**1200**	**600**	**0**	**0**	**0**	**0**	**0**	**0**
	Pressure Setting	**None**	**L**	**None**	**None**	**None**	**None**	**None**	**None**	**None**
	Process Name	**Hold**	**Filter out**	**Hold**	**None**	**None**	**None**	**None**	**None**	**None**
STEP 5	Process Time	**3200**	**0**	**3200**	**0**	**0**	**0**	**0**	**0**	**0**
	Pressure Setting	**L**	**None**	**L**	**None**	**None**	**None**	**None**	**None**	**None**
	Process Name	**Filter out**	**None**	**Filter out**	**None**	**None**	**None**	**None**	**None**	**None**
STEP 6	Process Time	**0**	**0**	**10**	**0**	**0**	**0**	**0**	**0**	**0**
	Pressure Setting	**None**	**None**	**LL**	**None**	**None**	**None**	**None**	**None**	**None**
	Process Name	**None**	**None**	**Hold**	**None**	**None**	**None**	**None**	**None**	**None**
STEP 7	Process Time	**0**	**0**	**200**	**0**	**0**	**0**	**0**	**0**	**0**
	Pressure Setting	**None**	**None**	**LL**	**None**	**None**	**None**	**None**	**None**	**None**
	Process Name	**None**	**None**	**Filter vent**	**None**	**None**	**None**	**None**	**None**	**None**
STEP 8	Process Time	**0**	**0**	**640**	**0**	**0**	**0**	**0**	**0**	**0**
	Pressure Setting	**None**	**None**	**L**	**None**	**None**	**None**	**None**	**None**	**None**
	Process Name	**None**	**None**	**Filter out**	**None**	**None**	**None**	**None**	**None**	**None**
STEP 9	Process Time	**0**	**0**	**600**	**0**	**0**	**0**	**0**	**0**	**0**
	Pressure Setting	**None**	**None**	**None**	**None**	**None**	**None**	**None**	**None**	**None**
	Process Name	**None**	**None**	**Hold**	**None**	**None**	**None**	**None**	**None**	**None**
STEP 10	Process Time	**0**	**0**	**3200**	**0**	**0**	**0**	**0**	**0**	**0**
	Pressure Setting	**None**	**None**	**L**	**None**	**None**	**None**	**None**	**None**	**None**
	Process Name	**None**	**None**	**Filter out**	**None**	**None**	**None**	**None**	**None**	**None**
STEP 11	Process Time	**0**	**0**	**10**	**0**	**0**	**0**	**0**	**0**	**0**
	Pressure Setting	**None**	**None**	**LL**	**None**	**None**	**None**	**None**	**None**	**None**
	Process Name	**None**	**None**	**Hold**	**None**	**None**	**None**	**None**	**None**	**None**
STEP 12	Process Time	**0**	**0**	**200**	**0**	**0**	**0**	**0**	**0**	**0**
	Pressure Setting	**None**	**None**	**LL**	**None**	**None**	**None**	**None**	**None**	**None**
	Process Name	**None**	**None**	**Filter vent**	**None**	**None**	**None**	**None**	**None**	**None**
STEP 13	Process Time	**0**	**0**	**640**	**0**	**0**	**0**	**0**	**0**	**0**
	Pressure Setting	**None**	**None**	**L**	**None**	**None**	**None**	**None**	**None**	**None**
	Process Name	**None**	**None**	**Filter out**	**None**	**None**	**None**	**None**	**None**	**None**
STEP 14	Process Time	**0**	**0**	**600**	**0**	**0**	**0**	**0**	**0**	**0**
	Pressure Setting	**None**	**None**	**None**	**None**	**None**	**None**	**None**	**None**	**None**
	Process Name	**None**	**None**	**Hold**	**None**	**None**	**None**	**None**	**None**	**None**
STEP 15	Process Time	**0**	**0**	**3200**	**0**	**0**	**0**	**0**	**0**	**0**
	Pressure Setting	**None**	**None**	**L**	**None**	**None**	**None**	**None**	**None**	**None**
	Process Name	**None**	**None**	**Filter out**	**None**	**None**	**None**	**None**	**None**	**None**
STEP 16	Process Time	**0**	**0**	**10**	**0**	**0**	**0**	**0**	**0**	**0**
	Pressure Setting	**None**	**None**	**LL**	**None**	**None**	**None**	**None**	**None**	**None**
	Process Name	**None**	**None**	**Hold**	**None**	**None**	**None**	**None**	**None**	**None**
STEP 17	Process Time	**0**	**0**	**200**	**0**	**0**	**0**	**0**	**0**	**0**
	Pressure Setting	**None**	**None**	**LL**	**None**	**None**	**None**	**None**	**None**	**None**
	Process Name	**None**	**None**	**Filter vent**	**None**	**None**	**None**	**None**	**None**	**None**
STEP 18	Process Time	**0**	**0**	**640**	**0**	**0**	**0**	**0**	**0**	**0**
	Pressure Setting	**None**	**None**	**L**	**None**	**None**	**None**	**None**	**None**	**None**
	Process Name	**None**	**None**	**Filter out**	**None**	**None**	**None**	**None**	**None**	**None**
STEP 19	Process Time	**0**	**0**	**600**	**0**	**0**	**0**	**0**	**0**	**0**
	Pressure Setting	**None**	**None**	**None**	**None**	**None**	**None**	**None**	**None**	**None**
	Process Name	**None**	**None**	**Hold**	**None**	**None**	**None**	**None**	**None**	**None**
STEP 20	Process Time	**0**	**0**	**3200**	**0**	**0**	**0**	**0**	**0**	**0**
	Pressure Setting	**None**	**None**	**L**	**None**	**None**	**None**	**None**	**None**	**None**
	Process Name	**None**	**None**	**Filter out**	**None**	**None**	**None**	**None**	**None**	**None**

5.1. System Config Parameter, Spinners (DEV)

NTD FILTDRAIN1* 2* 3* / NTD-RFILTDRAIN1* 2* 3*

Dispense Monitoring Control Data

Item / Dispense	NTD FILTDRAIN	NTD-RFILTDRAIN
Pulse Rate	**0.05**	**0.00333**
Delay Time	**0.60**	**0.60**
Set Flow Rate	**75**	**75**
Flow Rate Sensor Check Timing	**None**	**None**
Calibration 1	**1.00**	**1.00**
Offset	**0**	**0**
Upper Limit Error Level	**30.00**	**30.00**
Upper Limit Warning Level	**20.00**	**20.00**
Lower Limit Error Level	**30.00**	**30.00**
Lower Limit Warning Level	**20.00**	**20.00**
Dummy Dispense Flow Rate Monitoring Valid/Invalid	**Invalid**	**Invalid**
Monitoring Flow Rate Upper Limit for Short Time Dispense	**Not Execute**	**Not Execute**
Flow Rate Upper Limit Non-monitoring Time for Short Time	**1.0**	**1.0**

NTD1 N2

Process Recipe Attribute	**Valid**
Dummy Dispense Attribute	**Valid**

Dispense Mechanism Connection [1]

Valid, Invalid	**Valid**

MONITORING PARAMETER [For STD and NTD Configuration]

Developer 1&2 temp./ Motor flange temp./ Dilution temp.

Item	Dev 1 temp.	Dev 2 temp.*	Motor flange
Valid, Invalid	**Valid**	**Valid**	**Valid**
Measured Data ID	**Dev 1 temp.**	**Dev 2 temp.**	**Motor flange temp.**
Recipe Setting Method	**System recipe**	**System recipe**	**System recipe**
Temperature Control Method	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**
Range Lower Limit	**20.00**	**20.00**	**20.00**
Range Upper Limit	**25.00**	**25.00**	**25.00**

*= Not Present for 6x6 configuration

Controller TM150-CHILLER

Item	Dev 1 temp.	Dev 2 temp.*	Motor flange
Controller ID	**TM150-CHILLER**	**TM150-CHILLER**	**TM150-CHILLER**
Channel No.	**5**	**5**	**5**
Monitoring Type	**Use point read**	**Use point read**	**Use point read**
Control Method	**Standard**	**Standard**	**Standard**
Usepoint reading method	**AI reading**	**AI reading**	**AI reading**
Use Point Offset	**0.00**	**0**	**0.00**
Band Monitoring Method at Process Start	**Normal**	**Normal**	**Normal**
Band Monitoring Invalid Time at Process Start	**0.0**	**0**	**0.0**
Band Monitoring Determine Method during Processing	**No monitor**	**No monitor**	**No monitor**
Band Monitoring Determine Time during Processing	**0.0**	**0**	**0.0**
Band Monitoring Value during Processing	**0.00**	**0**	**0.00**
Pump Frequency	**30 ~ 60 Hz**	**30 ~ 60 Hz**	**30 ~ 60 Hz**
Initial Data	**23.00**	**23.00**	**23.00**
Overtemperature	**40.00**	**40.00**	**40.00**
Setting Determination Time	**5.0**	**5**	**5.0**
Setting Time-out Time	**3600.0**	**3600**	**3600.0**
Offset Setting Method	**Control setting**	**Control setting**	**Control setting**
Offset	**0.00**	**0**	**0.00**

*= Not Present for 6x6 configuration

Cup temp./ Cup humidity

Item	Cup temp.	Cup humidity
Valid, Invalid	**Valid**	**Valid**
Measured Data ID	**Cup temp.**	**Cup humidity**
Recipe Setting Method	**System recipe**	**System recipe**
Temperature Control Method	**Tmp ctl OFF**	**Tmp ctl OFF**
Recipe Verification Range Lower Limit	**20.00**	**28.00**
Recipe Verification Range Upper Limit	**27.00**	**55.00**

Controller TM150-THC

Item	Cup temp.	Cup humidity
Controller ID	**TM150-THC**	**TM150-THC**
Channel No.	**1**	**2**
Monitoring Type	**Use point read**	**Use point read**
Control Method	**Standard**	**Standard**
Use Point Offset	**0.00**	**0.00**
Band Monitoring Method at Process Start	**Normal**	**Normal**
Band Monitoring Invalid Time at Process Start	**0.0**	**0.0**
Band Monitoring Determination Method	**No monitor**	**No monitor**
Band Monitoring Determination Time	**0.0**	**0.0**
Band Monitoring Value during Processing	**0.00**	**0.00**
Air Blower Frequency	**30 ~ 60 Hz**	**30 ~ 60 Hz**
Initial Data	**22.20**	**40.70**
Overtemperature	**40.00**	**0.00**
Settling Determination Time	**5.0**	**5.0**
Setting Time-out Time	**3600.0**	**3600.0**

5.1. System Config Parameter, Spinners (DEV)

Block Arm - Left/ Block Arm - Right/ Module Arm - Left

Spinner Arm Control Data	DEV MODULES				NTD Modules
Item	Block Arm - Left	Block Arm - Right (WET)	Block Arm - Right (DRY)	Module Arm - Left	Module Arm - Left
Rail No. DEV3-1/2/3/4	Lower Rail	Lower Rail	Lower Rail	Lower Rail	Lower Rail
Rail No. DEV 3-5/6/7/8	Upper Rail	Upper Rail	Upper Rail	Upper Rail	Upper Rail
Rail No. DEV 5-1/2/3/4	Lower Rail	---	---	Lower Rail	Lower Rail
Arm Presence	**Exist**	**Exist**	**Exist**	**Exist**	**Exist**
Nozzle Type	**GP Nozzle**	**GP Nozzle**	**NLD/LD Nozzle**	**Rinse Nozzle**	**Rinse Nozzle[NTD]**
Y-axis Drive Type	**Motor Drive**	**Motor Drive**	**Motor Drive**	**Motor Drive**	**Motor Drive**
Z-axis Drive Type	**Motor Drive**	**Motor Drive**	**Motor Drive**	**Cylinder Drive**	**Cylinder Drive**
Y-axis Pulse Rate	**0.004883**	**0.004883**	**0.004883**	**0.012001**	**0.012001**
Z-axis Pulse Rate	**0.006**	**0.006**	**0.006**	**N/A**	**N/A**
IN, OUT Speed	**205000**	**205000**	**205000**	**29500**	**29500**
IN, OUT Acceleration	**361000**	**361000**	**150000**	**147000**	**147000**
IN, OUT Deceleration	**361000**	**361000**	**150000**	**147000**	**147000**
IN, OUT Speed(Outside the Cup)	**205000**	**205000**	**205000**	**N/A**	**N/A**
IN, OUT Acceleration(Outside the Cup)	**150000**	**150000**	**150000**	**N/A**	**N/A**
IN, OUT Deceleration(Outside the Cup)	**150000**	**150000**	**150000**	**N/A**	**N/A**
UP, DOWN Speed	**16600**	**16600**	**16600**	**N/A**	**N/A**
UP, DOWN Acceleration	**166000**	**166000**	**166000**	**N/A**	**N/A**
UP, DOWN Deceleration	**166000**	**166000**	**166000**	**N/A**	**N/A**
Maintenance Speed	**50%**	**50%**	**50%**	**N/A**	**N/A**

Home Offset

	DEV Block Arm - L / R	DEV Module Arm - Left	NTD Module Arm - Left
Z-Axis Home Position Offs	Tool Specific	NA	NA

Home Position

	DEV Block Arm - L / R	DEV Module Arm - Left	NTD Module Arm - Left
Y - Position	Nozzle Specific	Nozzle Specific	Nozzle Specific
Z - Position	Nozzle Specific	Arm Down	Arm Down

Reference Point

	DEV Block Arm - L / R	DEV Module Arm - Left	NTD Module Arm - Left
Y - axis	Nozzle Specific	Nozzle Specific	Nozzle Specific
Z - axis	Nozzle Specific	Arm Down (Cylinder)	Arm Down (Cylinder)

5.1. System Config Parameter, Spinners (DEV)

Recipe Position

BLOCK ARM - Recipe Position Name	MGP Nozzle		LD Nozzle	
	Block Arm - Left/Right (mm)*		Block Arm - Right (mm)*	
	Y Position	Z Position	Y Position	Z Position
Begin	**140.00**	**12.60**	**-160.00**	**2.00**
Center	**0.00**	**12.60**	**0.00**	**2.00**
End	**0.00**	**12.60**	**160.00**	**2.00**
Dispense 1	**5.00**	**12.60**	**0.00**	**2.00**
Dispense 2	**100.00**	**12.60**	**0.00**	**2.00**
Dispense 3	**6.00**	**12.60**	**0.00**	**2.00**
Dispense 4	**-6.00**	**12.60**	**0.00**	**2.00**
Dispense 5	**0.00**	**12.60**	**0.00**	**2.00**
Edge (B)	**-145.00**	**12.60**	**0.00**	**2.00**
Edge (E)	**+140.00**	**12.60**	**0.00**	**2.00**
MNT 1	**0.00**	**5.00**	**0.00**	**5.00**
MNT 2	**0.00**	**5.00**	**0.00**	**5.00**
MNT 3	**0.00**	**5.00**	**0.00**	**5.00**

***Values displayed in mm on Parameter Editor may differ from values in the table below by up to 0.02 mm since the actual position is based on an integer number of pulses.**

Recipe Position

MODULE ARM - Recipe Position Name	ADR / XDR - Rinse Arm		NTD - Rinse Arm	
	Module Arm - Left (mm)*		Module Arm - Left (mm)*	
	Y Position	Z Position	Y Position	Z Position
Begin	**0.00**	**Arm Down**	**-140.00**	**Arm Down**
Center***	**0.00**	**Arm Down**	**0.00**	**Arm Down**
End	**-150.00****	**Arm Down**	**0.00**	**Arm Down**
Dispense 1	**0.00**	**Arm Down**	**-13.00**	**Arm Down**
Dispense 2	**0.00**	**Arm Down**	**-100.00**	**Arm Down**
Dispense 3	**-15.00**	**Arm Down**	**0.00**	**Arm Down**
Dispense 4	**-40.00**	**Arm Down**	**0.00**	**Arm Down**
Dispense 5	**-145.00**	**Arm Down**	**0.00**	**Arm Down**
Edge (B)	**-100.00**	**Arm Down**	**0.00**	**Arm Down**
Edge (E)	**-161.00****	**Arm Down**	**0.00**	**Arm Down**
MNT 1	**0.00**	**Arm Up**	**0.00**	**Arm Up**
MNT 2	**0.00**	**Arm Up**	**0.00**	**Arm Up**
MNT 3	**0.00**	**Arm Up**	**0.00**	**Arm Up**

*Values displayed in mm on Parameter Editor may differ from values in the table below by up to 0.02 mm since the actual position is based on an integer number of pulses.
** For XDR enabled tool
*** For NTD ARM use the left nozzle as center reference point

Spin Motor

Spin Motor Control Data

Rinse Arm Select	**L Arm**
Maximum Speed	**3000.00**
Maximum Acceleration	**10000.00**
Speed at Rinse	**1000.00**
Acceleration at Rinse	**3000.00**
Rinse Time	**15.00**
Spin Off Speed	**1000.00**
Spin Off Acceleration	**3000.00**
Spin Off Time	**15.00**

5.2. System Config Parameter, Spinners (COT/BCT)

Block 4,5,6 PR Block, Coater CRD PUMP ONLY

Reserved Flag	**Invalid**
Fork Simultaneous Swapping Level	**1-2**
Wafer Store Count	**1**
Start Slot	**0**

Dispense Parameter

Shared Nozzle

RESIST NOZZLE#

Process Recipe Attribute	**Valid**
Dummy Dispense Attribute	**Valid**
Dry Free Suck Back	**Valid**

Dispense Mechanism Connection [1]

Valid, Invalid	**Valid***

***Invalid if Resist is not plumbed.**

Supply System [Tool Specific]

Valid, Invalid	**Valid***

***Invalid if Resist is not plumbed.**

RESIST# Supply System [Tool Specific]

Air vent in process	**Valid**
The Number of Wafers to be Processed	**100**
Liquid Sensor Watch Time	**2**
Exhaust open delay at Reloading	**2.4**

Filter Vent Setting

Filter Vent Valid, Invalid	**Invalid**
Filter Vent Interval	**100**
Mini Tank Vent Interval	**100**
Filter Vent Time	**0.5**
Mini Tank Vent time	**0.5**
Prior Pressurization Time	**5**

Automatic Air Vent

Air Vent Monitoring Time	**30**
Delay Time after LE Sensor Detection	**3**
Prior Pressurization Time	**5**
Pressure Release Time	**1**

Laser DDS

Laser DDS Valid1(1)/Invalid(0)	**Valid**
Laser DDS Valid2(1)/Invalid(0)	**Valid**
Laser DDS Valid3(1)/Invalid(0)	**Valid**
Laser DDS Valid4(1)/Invalid(0)	**Valid**

Pump 17

Pump Capacity	**3.00 ml**
Pump Pressure Range	**100**
Pump Pressure Calibration	**1.00**
Pump Pressure Monitoring Range (Warning Upper Limit)	**20.0**
Pump Pressure Monitoring Range (Warning Lower Limit)	**20.0**
Pump Pressure Monitoring Range (Stop Upper Limit)	**30.0**
Pump Pressure Monitoring Range (Stop Lower Limit)	**30.0**
Pump Pressure Monitoring Valid(1)/Invalid(0)	**1**
Dispense Start Watch Time	**30.00**
Pump Supply Watch Time	**8.1**
Delay Time Before Pump Supply	**1.00**
Wafer In Control Time	**11.1**
AMC Close Timing Adjustment	**Valid**
AMC Close Timing Adjustment TYPE	**TYPE2 = X10**
Board ID	**Layer Specific**
Electric Valve Count	**1**
Detection Count of Consecutive Unexecuted Pump Supply	**3**
Target ID	**Pump Specific**

AMC Valve

AV Open Time	**0**
AV Close Time	**0**
SV Setup Time	**0**
SV Time	**0**
Calibration	**1.00**
Offset	**0**
Setup1 Time	**300**
Setup2 Time	**300**
Setup3 Time	**300**
Suckback1 Time	**4000**
Suckback2 Time	**4000**
Suckback3 Time	**2000**
Process Setup Position	**13**
Setup1 Position	**0**
Setup2 Position	**0**
Process Suckback Position	**0**
Suckback1 Position	**30 [+/-1]**
Suckback2 Position	**25 [+/-1]**
Suckback3 Position	**5 [+/-1]**
Hysteresis	**0**
Target ID	**Same as Resist Nozzle Number**

Pump Out Air Vent Setting

Pump Out Air Vent Valid, Invalid	**Invalid**
Pump Out Air Vent Interval	**10000 shot**
Pump Out Air Vent Time	**0.3**
Pump Out Air Vent additional reload time	**3.5 sec**

5.2. System Config Parameter, Spinners (COT/BCT)

Block 4,5,6 PR Block, Coater ACRD Tool ONLY

Reserved Flag	**Invalid**
Fork Simultaneous Swapping Level	**1-2**
Wafer Store Count	**1**
Start Slot	**0**

Dispense Parameter

Shared Nozzle

Possible Number of Simultaneous Resist Dispense Processes	**10**

RESIST NOZZLE#

Process Recipe Attribute	**Valid**
Dummy Dispense Attribute	**Valid**
Out-Filter Vent Attribute	**Valid**
Dry Free Suck Back	**Valid**
Periodic Return Valid/Invalid	**Valid**

Pump 18

ViscosityType	Standard
Switch of ACRD Pump Operation	0
PressureMonitoringWarningRange	20
PressureMonitoringStopRange	30
PumpPressureCalibration	1
Pressure for wait	20
ReloadPreparationPressure	35
ReloadInitialPressure	See Table 1
PumpTrapVentInitialPressure	2
PumpReturnVentInitialPressure	See Table 1
ReturnLineValid/InvalidForPumpVent	Valid*
PriorPressurizationTimeForPumpVent	2
TrapBDSensorMonitoringValid/Invalid	Valid
RetryCountForPumpVent	10
AMCCloseTimingAdjustValid	Valid
AMCCloseTimingAdjustType	1
FilterVentValid	Valid
FilterVentInterval	300
FilterVentTime	1
PriorPressurizationTimeForFilterVent	2
DelayTimeBeforeReload	3
PumpOutValveCloseDelayTime	0.1

*= May be temp set to INVALID on **ONE LINE per DECK** while executing the line plumbing BKM

DFS

ProcessSetupTime	**0**
SuckbackOffset	**0**
Setup1Time	**300**
Setup2Time	**300**
Setup3Time	**300**
Suckback1Time	**4000**
Suckback2Time	**4000**
Suckback3Time	**2000**
ProcessSetupPosition	**13**
Setup1Position	**0**
Setup2Position	**0**
ProcessSuckbackPosition	**0**
Suckback1Position	**13 [+/-3]**
Suckback2Position	**15 [+/-3]**
Suckback3Position	**5 [+/-1]**

Dispense Line Data

ResistFlowDataCollection Valid/Invalid	**Valid**
PumpPressureDataCollection Valid/Invalid	**Valid**

Resist Interval Return Setting

Excessive-Return Preventive Amount	**33**
Excessive-Return Preventive Purge Amount	**3**

IFF-R Setting

IFF-R Pressure	-45
IFF-R Time	10

Out-Filter Setting

Pump Out-Filter Vent Initial Pressure	2.0kPa
Out-Filter Vent Press Mode For Wait	Enclosed Press

Laser DDS

Laser DDS Valid1(1)/Invalid(0)	**Valid***
Laser DDS Valid2(1)/Invalid(0)	**Valid***
Laser DDS Valid3(1)/Invalid(0)	**Valid***
Laser DDS Valid4(1)/Invalid(0)	**Valid***

*Invalid if RFM is Valid in Corresponding pump recipes

Dispense Mechanism Connection [1]

Valid, Invalid	**Valid***

***Invalid if Resist is not plumbed.**

Supply System [Tool Specific]

Valid, Invalid	**Valid***

***Invalid if Resist is not plumbed.**

RESIST# Supply System [Tool Specific] : M-ACRD Package

Air vent in process	**Valid**
The Number of Wafers to be Processed	**0**
Transfer Control / Chemical Amount to be Continued afrer Bottle Empty	**50 mL**
Liquid Sensor Watch Time	**1**
Bottle empty recovery mode	**Refill movement**
Refill Monitoring Time	**30**
PressAfterFreeTime	**1**

*** M-ACRD Patckage : HP-AMC + MACRD + 150ml or 100ml Reservoir tank**

Refill System - [Tool Specific]

RefillSysNo	**Nozzle Specific**
RefillSystemValid	**Valid**

Multi tank refill system

Supply Method	**Vacuum**
Prior Pressurization Time	**5sec**

Bottle Empty Detection Setting

InstantDetectRefillStopSensor	**Invalid**
RefillStopSensorDetectFixTime	**1.0**
RefillStopSensorWatchInvalidTime	**1.5**

Bottle

ContainerNo	**1**

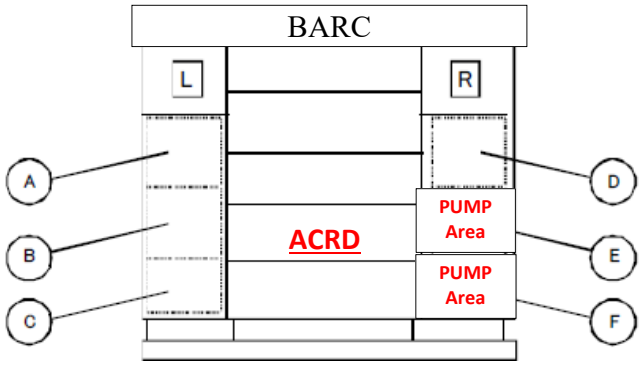
Dispense Monitoring Control Data *

Flow Rate Sensor Check Timing	**Dispense End**
Dummy Dispense Flow Rate Monitoring Valid/Invalid	**Valid**
Auto Dummy Dispense Amount Measurement Valid/Invalid	**Valid**
Duration for Stabilizing Pressure to Validate Measurement Result	**20.0**

* Only Present on lines with Dual Filter Upgrade

5.2. System Config Parameter, Spinners (COT/BCT)

Reload Initial Pressure
and
Pump Return Vent
Initial Pressure Settings



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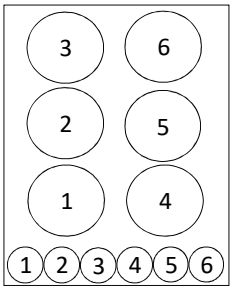
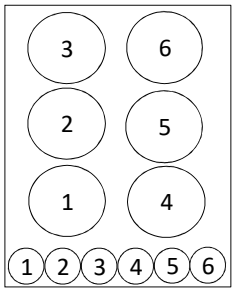


MAINTENANCE SIDE

No.	PARTS	POINT OF USE	Setting
1	BOTTLE1, L/E	5-1,2,3,4 RESIST4	**9.0**
2	BOTTLE1, L/E	5-1,2,3,4 RESIST5	**9.0**
3	BOTTLE1, L/E	5-1,2,3,4 RESIST6	**9.0**
4	BOTTLE1, L/E	6-1,2,3,4 RESIST4	**4.5**
5	BOTTLE1, L/E	6-1,2,3,4 RESIST5	**4.5**
6	BOTTLE1, L/E	6-1,2,3,4 RESIST6	**4.5**

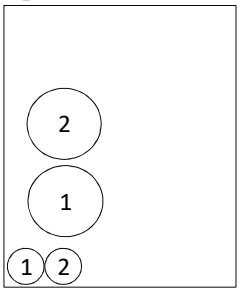
B



MAINTENANCE SIDE

No.	PARTS	POINT OF USE	Setting
1	BOTTLE1, L/E	5-1,2,3,4 RESIST1	**4.5**
2	BOTTLE1, L/E	5-1,2,3,4 RESIST2	**4.5**
3	BOTTLE1, L/E	5-1,2,3,4 RESIST3	**4.5**
4	BOTTLE1, L/E	6-1,2,3,4 RESIST1	**0.0**
5	BOTTLE1, L/E	6-1,2,3,4 RESIST2	**0.0**
6	BOTTLE1, L/E	6-1,2,3,4 RESIST3	**0.0**

C



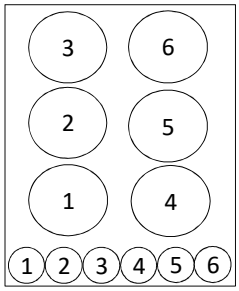
MAINTENANCE SIDE

No.	PARTS	POINT OF USE	Setting
1	BOTTLE1, L/E	5-1,2,3,4 RESIST10	**0.0**
2	BOTTLE1, L/E	5-1,2,3,4 RESIST9	**0.0** *

*Use the below setting if not complete LE bottle swap modification

2	BOTTLE1, L/E	6-1,2,3,4 RESIST10	**-4.5**

D



MAINTENANCE SIDE

No.	PARTS	POINT OF USE	Setting
1	BOTTLE1, L/E	5-1,2,3,4 RESIST7	**9.0**
2	BOTTLE1, L/E	5-1,2,3,4 RESIST8	**9.0**
3	BOTTLE1, L/E	6-1,2,3,4 RESIST10	**4.5** *
4	BOTTLE1, L/E	6-1,2,3,4 RESIST7	**4.5**
5	BOTTLE1, L/E	6-1,2,3,4 RESIST8	**4.5**
6	BOTTLE1, L/E	6-1,2,3,4 RESIST9	**4.5**

*Use the below setting if not complete LE bottle swap modification

3	BOTTLE1, L/E	5-1,2,3,4 RESIST9	**9.0**

E

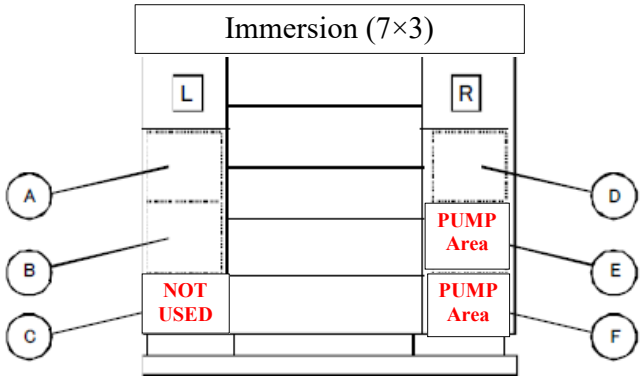
Deck6 RESIST1 - RESIST10 Pump Area

F

Deck5 RESIST1 - RESIST10 Pump Area

5.2. System Config Parameter, Spinners (COT/BCT)

Reload Initial Pressure
and
Pump Return Vent
Initial Pressure Settings



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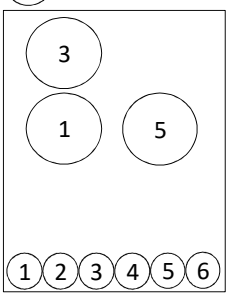
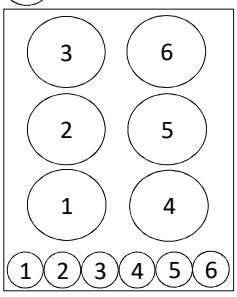


MAINTENANCE SIDE

No.	PARTS	POINT OF USE	Setting
1	BOTTLE1, L/E	6-1,2 RESIST1	**9.0**
2	L/E	6-3,4 RESIST1	**4.5**
3	BOTTLE1, L/E	6-1,2 RESIST2	**9.0**
4	L/E	6-3,4 RESIST2	**4.5**
5	BOTTLE1, L/E	6-1,2 RESIST3	**9.0**
6	L/E	6-3,4 RESIST3	**4.5**

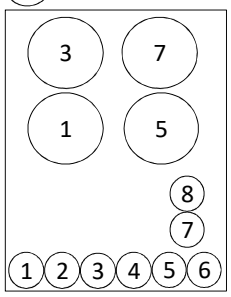
D



MAINTENANCE SIDE

No.	PARTS	POINT OF USE	Setting
1	BOTTLE1, L/E	4-1,2 RESIST1	**9.0**
2	BOTTLE1, L/E	4-3,4 RESIST1	**4.5**
3	BOTTLE1, L/E	4-1,2 RESIST2	**9.0**
4	BOTTLE1, L/E	4-3,4 RESIST2	**4.5**
5	BOTTLE1, L/E	4-1,2 RESIST3	**9.0**
6	BOTTLE1, L/E	4-3,4 RESIST3	**4.5**

B



MAINTENANCE SIDE

No.	PARTS	POINT OF USE	Setting
1	BOTTLE1, L/E	4-1,2 RESIST4	**4.5**
2	L/E	4-3,4 RESIST4	**0.0**
3	BOTTLE1, L/E	4-1,2 RESIST5	**4.5**
4	L/E	4-3,4 RESIST5	**0.0**
5	BOTTLE1, L/E	4-1,2 RESIST6	**4.5**
6	L/E	4-3,4 RESIST6	**0.0**
7	BOTTLE1, L/E	4-1,2 RESIST7	**4.5**
8	L/E	4-3,4 RESIST7	**0.0**

E

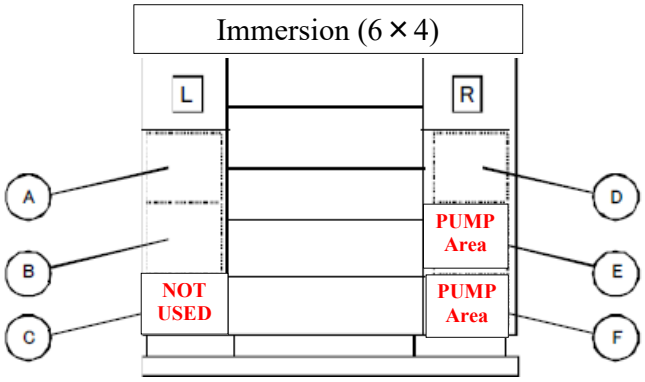
4-3,4 RESIST1 - RESIST7 / 6-3,4 RESIST1 - RESIST3 Pump Area

F

4-1,2 RESIST1 - RESIST7 / 6-1,2 RESIST1 - RESIST3 Pump Area

5.2. System Config Parameter, Spinners (COT/BCT)

Reload Initial Pressure
and
Pump Return Vent
Initial Pressure Settings



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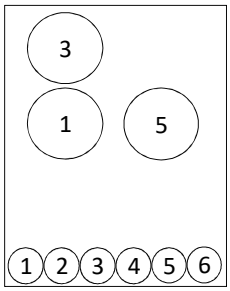
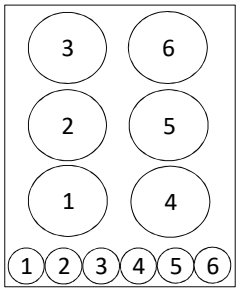


MAINTENANCE SIDE

No.	PARTS	POINT OF USE	Setting
1	BOTTLE1, L/E	6-1,2 RESIST1	**9.0**
2	L/E	6-3,4 RESIST1	**4.5**
3	BOTTLE1, L/E	6-1,2 RESIST2	**9.0**
4	L/E	6-3,4 RESIST2	**4.5**
5	BOTTLE1, L/E	6-1,2 RESIST3	**9.0**
6	L/E	6-3,4 RESIST3	**4.5**

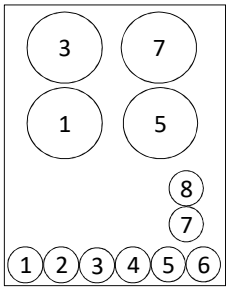
D



MAINTENANCE SIDE

No.	PARTS	POINT OF USE	Setting
1	BOTTLE1, L/E	4-1,2 RESIST1	**9.0**
2	BOTTLE1, L/E	4-3,4 RESIST1	**4.5**
3	BOTTLE1, L/E	4-1,2 RESIST2	**9.0**
4	BOTTLE1, L/E	4-3,4 RESIST2	**4.5**
5	BOTTLE1, L/E	4-1,2 RESIST3	**9.0**
6	BOTTLE1, L/E	4-3,4 RESIST3	**4.5**

B



MAINTENANCE SIDE

No.	PARTS	POINT OF USE	Setting
1	BOTTLE1, L/E	4-1,2 RESIST4	**4.5**
2	L/E	4-3,4 RESIST4	**0.0**
3	BOTTLE1, L/E	4-1,2 RESIST5	**4.5**
4	L/E	4-3,4 RESIST5	**0.0**
5	BOTTLE1, L/E	4-1,2 RESIST6	**4.5**
6	L/E	4-3,4 RESIST6	**0.0**
7	BOTTLE1, L/E	6-1,2 RESIST4	**4.5**
8	L/E	6-3,4 RESIST4	**0.0**

E

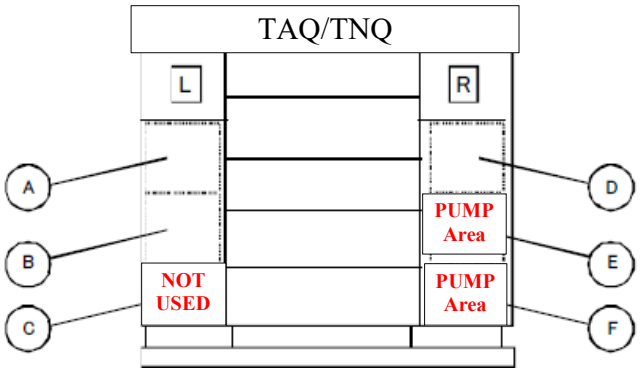
4-3,4 RESIST1 - RESIST6 / 6-3,4 RESIST1 - RESIST4 Pump Area

F

4-1,2 RESIST1 - RESIST6 / 6-1,2 RESIST1 - RESIST4 Pump Area

5.2. System Config Parameter, Spinners (COT/BCT)

Reload Initial Pressure
and
Pump Return Vent
Initial Pressure Settings



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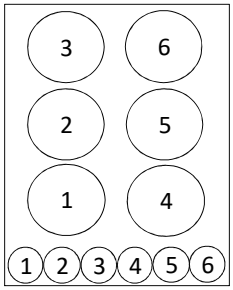
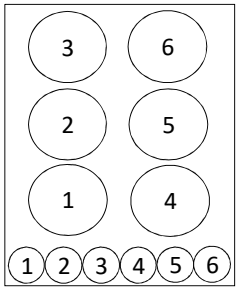


MAINTENANCE SIDE

No.	PARTS	POINT OF USE	Setting
1	BOTTLE, L/E	6-1,2,3,4 RESIST1	**9.0**
2	BOTTLE, L/E	6-1,2,3,4 RESIST2	**9.0**
3	BOTTLE, L/E	6-1,2,3,4 RESIST3	**4.5**
4	BOTTLE, L/E	6-1,2,3,4 RESIST4	**4.5**
5	BOTTLE, L/E	4-1,2,3,4 RESIST7	**9.0**
6	BOTTLE, L/E	5-1,2,3,4 RESIST7	**4.5**

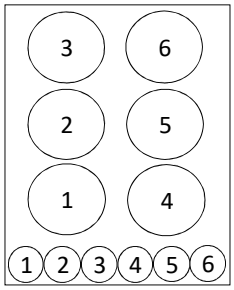
D



MAINTENANCE SIDE

No.	PARTS	POINT OF USE	Setting
1	BOTTLE1, L/E	4-1,2,3,4 RESIST1	**9.0**
2	BOTTLE1, L/E	4-1,2,3,4 RESIST2	**9.0**
3	BOTTLE1, L/E	4-1,2,3,4 RESIST3	**9.0**
4	BOTTLE1, L/E	4-1,2,3,4 RESIST4	**9.0**
5	BOTTLE1, L/E	4-1,2,3,4 RESIST5	**9.0**
6	BOTTLE1, L/E	4-1,2,3,4 RESIST6	**9.0**

B



MAINTENANCE SIDE

No.	PARTS	POINT OF USE	Setting
1	BOTTLE1, L/E	5-1,2,3,4 RESIST1	**0.0**
2	BOTTLE1, L/E	5-1,2,3,4 RESIST2	**0.0**
3	BOTTLE1, L/E	5-1,2,3,4 RESIST3	**0.0**
4	BOTTLE1, L/E	5-1,2,3,4 RESIST4	**0.0**
5	BOTTLE1, L/E	5-1,2,3,4 RESIST5	**0.0**
6	BOTTLE1, L/E	5-1,2,3,4 RESIST6	**0.0**

E

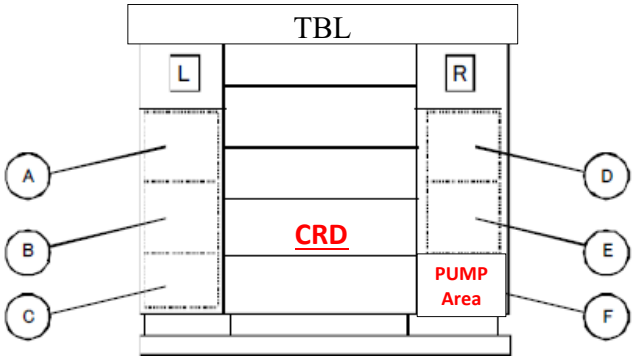
5-1,2,3,4 RESIST1 - RESIST7 / 6-1,2,3,4 RESIST3,4 Pump Area

F

4-1,2,3,4 RESIST1 - RESIST7 / 6-1,2,3,4 RESIST1,2 Pump Area

5.2. System Config Parameter, Spinners (COT/BCT)

Reload Initial Pressure
and
Pump Return Vent
Initial Pressure Settings



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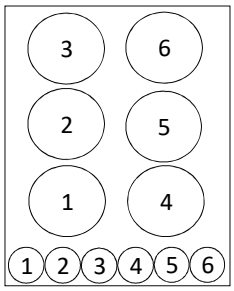
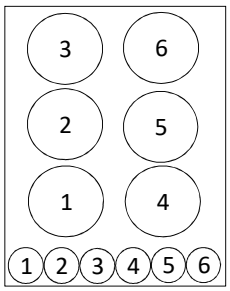


MAINTENANCE SIDE

No.	PARTS	POINT OF USE	Setting
1	BOTTLE1, L/E	6-1,2,3,4 RESIST3	**4.5**
2	BOTTLE2, L/E	6-1,2,3,4 RESIST3	**4.5**
3	BOTTLE1, L/E	6-1,2,3,4 RESIST4	**4.5**
4	BOTTLE2, L/E	6-1,2,3,4 RESIST4	**4.5**
5	UNUSED	---	**---**
6	UNUSED	---	**---**

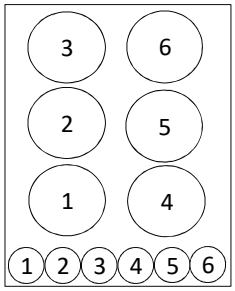
D



MAINTENANCE SIDE

No.	PARTS	POINT OF USE	Setting
1	BOTTLE1, L/E	6-1,2,3,4 RESIST1	**4.5**
2	BOTTLE2, L/E	6-1,2,3,4 RESIST1	**4.5**
3	BOTTLE1, L/E	6-1,2,3,4 RESIST2	**4.5**
4	BOTTLE2, L/E	6-1,2,3,4 RESIST2	**4.5**
5	UNUSED	---	**---**
6	UNUSED	---	**---**

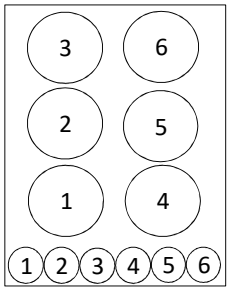
B



MAINTENANCE SIDE

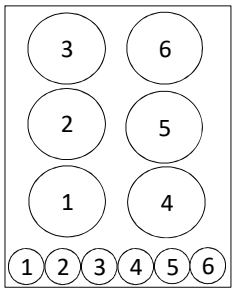
No.	PARTS	POINT OF USE	Setting
1	BOTTLE1, L/E	5-1,2,3,4 RESIST3	**4.5**
2	BOTTLE2, L/E	5-1,2,3,4 RESIST3	**4.5**
3	BOTTLE1, L/E	5-1,2,3,4 RESIST4	**4.5**
4	BOTTLE2, L/E	5-1,2,3,4 RESIST4	**4.5**
5	UNUSED	---	**---**
6	UNUSED	---	**---**

E



No.	PARTS	POINT OF USE	Setting
1	BOTTLE1, L/E	5-1,2,3,4 RESIST1	**4.5**
2	BOTTLE2, L/E	5-1,2,3,4 RESIST1	**4.5**
3	BOTTLE1, L/E	5-1,2,3,4 RESIST2	**4.5**
4	BOTTLE2, L/E	5-1,2,3,4 RESIST2	**4.5**
5	UNUSED	---	**---**
6	UNUSED	---	**---**

C



MAINTENANCE SIDE

No.	PARTS	POINT OF USE	Setting
1	UNUSED	---	**---**
2	UNUSED	---	**---**
3	UNUSED	---	**---**
4	UNUSED	---	**---**
5	UNUSED	---	**---**
6	UNUSED	---	**---**

F

Deck5 and 6 RESIST1 - RESIST4 Pump Area

5.2. System Config Parameter, Spinners (COT/BCT)

RRC NOZZLE1/ DRN CASE CLEAN/ NZL CLN/BATH CLN/NZL SC

Process Recipe Attribute	**Valid***
Dummy Dispense Attribute	**Valid***

Dispense Mechanism Connection [1]

Valid, Invalid	**Valid**

Dispense Monitoring Mechanism Connection

Valid, Invalid	**Valid**

Fin flow type 1

Dispense Monitoring Type	**Fin flow type 1**

CRF Setting**

Valid, Invalid	**Valid**

Interval for Circulation for All except D6 IMM***

Valid, Invalid	**Invalid**
Time for Circulation Recovery	60
Time for Continuous Circulation	60

Interval for Circulation for D6 IMM***

Valid, Invalid	**Valid**
Time for Circulation Recovery	1200
Time for Continuous Circulation	15

RRC Nozzle Auto Dispense After DFT Valid,Invalid

Valid, Invalid	Valid

RRC Nozzle Auto Dispense Time After DFT

Time (sec)	1.0

Supply System [1]

Valid, Invalid	**Valid**

NOZZLE.SC when nozzle height is 4.5 mm (BARC)

Suckback Start Delay Time	**2000**
Suckback1 Position	**5.00**
Suckback2 Position	**0.00**
Suckback3 Position	**5.00**

NOZZLE.SC when nozzle height is 6.5 mm (IMM / DRY)

Suckback Start Delay Time	**2000**
Suckback1 Position	**4.00**
Suckback2 Position	**-1.00**
Suckback3 Position	**4.00**

Wash after Dispensing with Sub-operating Panel**

Set, Not Set	Not Set

Wash Time after Dispensing**

Time (sec)	10

*** Invalid for NZL SC**
**** ONLY Present for NZL CLN/BATH CLN**
***** RRC NOZZLE1 of CRF enabled tool**

SOLVENT 1 Supply System -[Tool Specific]

Item / Dispense	RRC NOZZLE1	DRN CASE CLEAN	NZL CLN/BATH CLN	NOZZLE. SC.
Refill Monitoring Time	**180**	**180**	**180**	**180**
Pre-Refill Decompress Time	**20.0**	**20.0**	**20.0**	**20.0**
Post-Refill Vent Time	**1.0**	**1.0**	**1.0**	**1.0**
Post-Refill Pressurize Time	**15.0**	**15.0**	**15.0**	**15.0**
Post-Refill Depressurize Time	**60.0**	**60.0**	**60.0**	**60.0**
Post-Refill Delay Time	**1**	**1**	**1**	**1**
N2 Dissolution Monitoring Time	**0**	**0**	**0**	**0**
Vent Time at IFF-S*	**150sec**	**150sec**	**150sec**	**150sec**
Tank Switch during Dispensing	**Valid**	**Valid**	**Valid**	**Valid**
Return Mode Setting	**Valid**	**Valid**	**Valid**	**Valid**

* - IFF-S Specific

CRF Setting*

Wait Time for Circulation Recovery	**240**
Guarantee Time of Continuous Circulation	**60***
Circulation Buffer Pressure Release Time	**1**
Circulation Liquid Vent Monitoring Time	**30**
Pressurization Time for Circulation Switching	**3**
Vent Time for Circulation Switching	**0**
Small-Pressurization Time for Circulation Switching	**1**

*** 0 for D6 IMM Tool Only**

* For CRF enabled tool

CSS Refill System [1]

Valid, Invalid	**Valid**

FailsafeValve

Failsafe Valve Close Delay Time	**0.0 sec**

5.2. System Config Parameter, Spinners (COT/BCT)

Dispense Monitoring Control Data

Item / Dispense	RRC NOZZLE1	DRN CASE CLEAN	NZL CLN/BATH CLN	NOZZLE. SC.
Pulse Rate	**0.00333**	**0.05**	**0.05**	**0.05**
Delay Time	**0.60**	**0.60**	**0.60**	**0.60**
Set Flow Rate	**70**	**250**	**10 NZL BATH 600** **7 NZL BATH 440** **4 NZL BATH 275**	**10 NZL BATH 900** **7 NZL BATH 875** **4 NZL BATH 525**
Flow Rate Sensor Check Timing	**Dispense end**	**Dispense end**	**Dispense end**	**Dispense end**
Calibration 1	**POS = 0.85 - 0.99** **PGMEA = 1.00 - 1.15** **EL = 0.98 - 1.12**	**1.00**	**1.00**	**1.00**
Offset	**0**	**0**	**0**	**0**
Upper Limit Error Level	**30.00%**	**30.00%**	**30.00%**	**20.00%**
Upper Limit Warning Level	**20.00%**	**20.00%**	**20.00%**	**10.00%**
Lower Limit Error Level	**30.00%**	**30.00%**	**30.00%**	**20.00%**
Lower Limit Warning Level	**20.00%**	**20.00%**	**20.00%**	**10.00%**
Dummy Dispense Flow Rate Monitoring Valid/Invalid	**Valid**	**Valid**	**Valid**	**Valid**
Monitoring Flow Rate Upper Limit for Short Time Dispense	**Execute**	**Execute**	**Execute**	**Execute**
Flow Rate Upper Limit Non-monitoring Time for Short Disp.	**1.0**	**1.0**	**1.0**	**1.0**

CMN CUP EXH.*

Process Recipe Attribute	**Invalid**
Dummy Dispense Attribute	**Invalid**

* This setting does not exist on TNU

Dispense Mechanism Connection

Valid, Invalid	**Valid**

RESIST SETUP

Process Recipe Attribute	**Invalid**
Dummy Dispense Attribute	**Invalid**

Dispense Mechanism Connection

Valid, Invalid	**Valid**

RESIST SUCKBACK

Process Recipe Attribute	**Invalid**
Dummy Dispense Attribute	**Invalid**

Dispense Mechanism Connection

Valid, Invalid	**Valid**

RESIST SETUP END

Process Recipe Attribute	**Invalid**
Dummy Dispense Attribute	**Invalid**

Dispense Mechanism Connection

Valid, Invalid	**Valid**

5.2. System Config Parameter, Spinners (COT/BCT)

RST PRESS TRG.*

* - ACRD Specific

Process Recipe Attribute	**Invalid**
Dummy Dispense Attribute	**Invalid**

Dispense Mechanism Connection

Valid, Invalid	**Valid**

KEEP ARM POS[69]

Process Recipe Attribute	**Valid**
Dummy Dispense Attribute	**Invalid**

Dispense Mechanism Connection

Valid, Invalid	**Valid**

RRC FILTDRAIN1* / 2*

* - IFF-S Specific

Process Recipe Attribute	**Invalid**
Dummy Dispense Attribute	**Invalid**
IFF-S Supported Nozzle	**Tool Specific**

Dispense Mechanism Connection

Valid, Invalid	**Valid**

Dispense Monitoring Mechanism Connection

Valid, Invalid	**Valid**

CRF Setting

Valid, Invalid	**VALID**

Interval for Circulation

Valid, Invalid	**Invalid**
Time for Circulation Recovery	**60**
Time for Continuous Circulation	**60**

Fin flow type 1 (3)

Dispense Monitoring Type	**Fin flow type 1**

Supply System[1]

Valid, Invalid	Valid

SOLVENT-A/B/C Supply System

Supply System Type	Solvent super clean supply sys
Chemical Name	SOLVENT-A/B/C
Refill Monitoring Time	180
Pre-Refill Decompress Time	30
Post-Refill Vent Time	1
Post-Refill Pressurize Time	15
Post-Refill Depressurize Time	60
Post-Refill Delay Time	1
Vent Time at Chemical Drain	150
Filter Replacement Supply System No.	Tool Specific

* - IFF-S Specific		Filter Replacement Sequence (1)[1]	Filter Replacement Sequence (2)[2]	Filter Replacement Sequence (3)[3]	Filter Replacement Sequence (4)[4]	Filter Replacement Sequence (5)[5]	Filter Replacement Sequence (6)[6]	Filter Replacement Sequence (7)[7]	Filter Replacement Sequence (8)[8]	Filter Replacement Sequence (9)[9]
	Install Type	1	2	3	4	5	6	7	8	9
	Comment	IFF-1	IFF-2	IFF-3	IFF-4	IFF-5	IFF-6	IFF-7	IFF-8	IFF-9
STEP 1	Process Time	10 sec	10	0	0	0	0	0	0	0
	Pressure Setting	LL	LL	None	None	None	None	None	None	None
	Process Name	Hold	Hold	None	None	None	None	None	None	None
STEP 2	Process Time	200	200	0	0	0	0	0	0	0
	Pressure Setting	LL	LL	None	None	None	None	None	None	None
	Process Name	Filter vent	Filter vent	None	None	None	None	None	None	None
STEP 3	Process Time	640	100	0	0	0	0	0	0	0
	Pressure Setting	L	L	None	None	None	None	None	None	None
	Process Name	Filter out	Filter out	None	None	None	None	None	None	None
STEP 4	Process Time	600	1200	0	0	0	0	0	0	0
	Pressure Setting	None	L	None	None	None	None	None	None	None
	Process Name	Hold	Filter out	None	None	None	None	None	None	None
STEP 5	Process Time	3200	0	0	0	0	0	0	0	0
	Pressure Setting	L	None	None	None	None	None	None	None	None
	Process Name	Filter out	None	None	None	None	None	None	None	None
STEP 6	Process Time	0	0	0	0	0	0	0	0	0
	Pressure Setting	None	None	None	None	None	None	None	None	None
	Process Name	None	None	None	None	None	None	None	None	None
STEP 7	Process Time	0	0	0	0	0	0	0	0	0
	Pressure Setting	None	None	None	None	None	None	None	None	None
	Process Name	None	None	None	None	None	None	None	None	None
STEP 8	Process Time	0	0	0	0	0	0	0	0	0
	Pressure Setting	None	None	None	None	None	None	None	None	None
	Process Name	None	None	None	None	None	None	None	None	None
STEP 9	Process Time	0	0	0	0	0	0	0	0	0
	Pressure Setting	None	None	None	None	None	None	None	None	None
	Process Name	None	None	None	None	None	None	None	None	None
STEP 10	Process Time	0	0	0	0	0	0	0	0	0
	Pressure Setting	None	None	None	None	None	None	None	None	None
	Process Name	None	None	None	None	None	None	None	None	None

5.2. System Config Parameter, Spinners (COT/BCT)

		Filter Replacement Sequence (1)[1]	Filter Replacement Sequence (2)[2]	Filter Replacement Sequence (3)[3]	Filter Replacement Sequence (4)[4]	Filter Replacement Sequence (5)[5]	Filter Replacement Sequence (6)[6]	Filter Replacement Sequence (7)[7]	Filter Replacement Sequence (8)[8]	Filter Replacement Sequence (9)[9]
	Install Type	1	2	3	4	5	6	7	8	9
	Comment	IFF-1	IFF-2	IFF-3	IFF-4	IFF-5	IFF-6	IFF-7	IFF-8	IFF-9
STEP 11	Process Time	0	0	0	0	0	0	0	0	0
	Pressure Setting	None	None	None	None	None	None	None	None	None
	Process Name	None	None	None	None	None	None	None	None	None
STEP 12	Process Time	0	0	0	0	0	0	0	0	0
	Pressure Setting	None	None	None	None	None	None	None	None	None
	Process Name	None	None	None	None	None	None	None	None	None
STEP 13	Process Time	0	0	0	0	0	0	0	0	0
	Pressure Setting	None	None	None	None	None	None	None	None	None
	Process Name	None	None	None	None	None	None	None	None	None
STEP 14	Process Time	0	0	0	0	0	0	0	0	0
	Pressure Setting	None	None	None	None	None	None	None	None	None
	Process Name	None	None	None	None	None	None	None	None	None
STEP 15	Process Time	0	0	0	0	0	0	0	0	0
	Pressure Setting	None	None	None	None	None	None	None	None	None
	Process Name	None	None	None	None	None	None	None	None	None
STEP 16	Process Time	0	0	0	0	0	0	0	0	0
	Pressure Setting	None	None	None	None	None	None	None	None	None
	Process Name	None	None	None	None	None	None	None	None	None
STEP 17	Process Time	0	0	0	0	0	0	0	0	0
	Pressure Setting	None	None	None	None	None	None	None	None	None
	Process Name	None	None	None	None	None	None	None	None	None
STEP 18	Process Time	0	0	0	0	0	0	0	0	0
	Pressure Setting	None	None	None	None	None	None	None	None	None
	Process Name	None	None	None	None	None	None	None	None	None
STEP 19	Process Time	0	0	0	0	0	0	0	0	0
	Pressure Setting	None	None	None	None	None	None	None	None	None
	Process Name	None	None	None	None	None	None	None	None	None
STEP 20	Process Time	0	0	0	0	0	0	0	0	0
	Pressure Setting	None	None	None	None	None	None	None	None	None
	Process Name	None	None	None	None	None	None	None	None	None

Dispense Monitoring Control Data

Pulse Rate	**0.00333**
Delay Time	**0.6**
Set Flow Rate	**75**
Flow Rate Sensor Check Timing	**None**
Calibration 1	**1**
Offset	**0**
Upper Limit Error Level	**30**
Upper Limit Warning Level	**20**
Lower Limit Error Level	**30**
Lower Limit Warning Level	**20**
Dummy Dispense Flow Rate Monitoring Valid/Invalic	**Invalid**
Monitoring Flow Rate Upper Limit for Short Time Dispense	**Not Execute**
Flow Rate Upper Limit Non-monitoring Time for Short Time Dispense	**1**

5.2. System Config Parameter, Spinners (COT/BCT)

Local Nozzle

E.B.R.1/ BACK RINSE1/ BEVEL RINSE V2/ EXH DUCT CLEAN

Process Recipe Attribute	**Valid**
Dummy Dispense Attribute	**Valid ***

*** Invalid for BACKRINSE and BEVEL RINSE**

Dispense Mechanism Connection

Valid, Invalid	**Valid**

Dispense Monitoring Mechanism Connection

Valid, Invalid	**Valid**

Fin flow type 1

Dispense Monitoring Type	**Fin flow type 1**

Supply System

Valid, Invalid	**Valid**

SOLVENT 1 Supply System - [Tool Specific]

Item / Dispense	E.B.R.1	BACK RINSE1	BEVEL RINSE V2	EXH DUCT CLEAN
Refill Monitoring Time	**180**	**180**	**180**	**180**
Pre-Refill Decompress Time	**20.0**	**20.0**	**20.0**	**20.0**
Post-Refill Vent Time	**1.0**	**1.0**	**1.0**	**1.0**
Post-Refill Pressurize Time	**15.0**	**15.0**	**15.0**	**15.0**
Post-Refill Depressurize Time	**60.0**	**60.0**	**60.0**	**60.0**
Post-Refill Delay Time	**1**	**1**	**1**	**1**
N2 Dissolution Monitoring Time	**0**	**0**	**0**	**0**
Vent Time at IFF-S*	**150sec**	**150sec**	**150sec**	**150sec**
Tank Switch during Dispensing	**Valid**	**Valid**	**Valid**	**Valid**
Return Mode Setting	**Valid**	**Valid**	**Valid**	**Valid**

* - IFF-S Specific

CRF Setting*

Wait Time for Circulation Recovery	**240**
Guarantee Time of Continuous Circulation	**60**
Circulation Buffer Pressure Release Time	**1**
Circulation Liquid Vent Monitoring Time	**30**
Pressurization Time for Circulation Switching	**3**
Vent Time for Circulation Switching	**0**
Small-Pressurization Time for Circulation Switching	**1**

* For CRF enabled tool

CSS Refill System [1]

Valid, Invalid	**Valid**

FailsafeValve

Failsafe Valve Close Delay Time	**0.0 sec**

Dispense Monitoring Control Data

Item / Dispense	E.B.R.1	BACK RINSE1	BEVEL RINSE V2	EXH DUCT CLEAN
Pulse Rate	**0.00333**	**0.005**	**0.00333**	**0.005**
Delay Time	**0.60**	**0.60**	**0.60**	**0.60**
Set Flow Rate	**20**	**100**	**50**	**200**
Flow Rate Sensor Check Timing	**Dispense end**	**Dispense end**	**Dispense end**	**Dispense end**
Calibration 1	**POS = 0.85 - 0.99 PGMEA = 1.00 - 1.15 EL = 0.98 - 1.12**	**1.00**	**1.00**	**1.00**
Offset	**0**	**0**	**0**	**0**
Upper Limit Error Level	**40.00%**	**30.00%**	**30.00%**	**30.00%**
Upper Limit Warning Level	**30.00%**	**20.00%**	**20.00%**	**20.00%**
Lower Limit Error Level	**30.00%**	**30.00%**	**30.00%**	**30.00%**
Lower Limit Warning Level	**20.00%**	**20.00%**	**20.00%**	**20.00%**
Dummy Dispense Flow Rate Monitoring Valid/Invalid	**Valid**	**Invalid**	**Invalid**	**Valid**
Monitoring Flow Rate Upper Limit for Short Time Dispense	**Execute**	**Execute**	**Execute**	**Execute**
Flow Rate Upper Limit Non-monitoring Time for Short Time Disp.	**1.0**	**1.0**	**1.0**	**1.0**

5.2. System Config Parameter, Spinners (COT/BCT)

CUP EXH.

Process Recipe Attribute	**Invalid***
Dummy Dispense Attribute	**Invalid**

* Valid for TNU

Dispense Mechanism Connection

Valid, Invalid	**Valid**

Spinner Exhaust Monitoring Control Data

Item / Dispense	CUP EXH.
High Pressure	**0.00**
High Pressure (Error Lower Limit)	**0.00**
Low Pressure	**0.00**
Low Pressure (Error Upper Limit)	**0.00**
Cup EXH. Monitoring Start Delay Time	**2000**
Offset	**0.0**
Cup EXH. Monitoring Valid(1)/Invalid(0)	**0**

EXH DRAIN PUMP

Process Recipe Attribute	**Valid**
Dummy Dispense Attribute	**Invalid**

Dispense Mechanism Connection

Valid, Invalid	**Valid**

Monitoring Parameter

Resist temp./ Cup temp./ Motor flange temp./ Cup humidity/ Cup exhaust flow

Item	Resist temp.	Cup temp.	Motor flange temp.	Cup humidity	Cup exhaust flow
Valid,Invalid	**Valid**	**Valid**	**Valid**	**Valid**	**Valid**
Measured Data ID	**Resist temp.**	**Cup temp.**	**Motor flange temp.**	**Cup humidity**	**Cup exhaust flow**
Recipe Setting Method	**System recipe**	**System recipe**	**System recipe**	**System recipe**	**System recipe**
Temperature Control Method	**See Table**	**See Table**	**See Table**	**See Table**	**See Table**
Recipe Verify Range Lower Limit	**20.00**	**20.00**	**20.00**	**28.00**	**0**
Recipe Verify Range Upper Limit	**25.00**	**27.00**	**25.00**	**55.00**	****500**

**=1000 for TNU L4 and L6

Table for Temperature Control Method

Module	Resist temp.	Cup temp.	Motor flange temp.	Cup humidity	Cup exhaust flow
4-1 COT	**Tmp ctl ON**	**Tmp ctl ON**	**Tmp ctl OFF**	**Tmp ctl ON**	**Tmp ctl ON**
4-2 COT	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**
4-3 COT	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**
4-4 COT	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**
5-1 COT	**Tmp ctl ON**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl ON**
5-1 COT(TBL) 5-1 BCT (BARC)	**Tmp ctl ON**	**Tmp ctl ON**	**Tmp ctl OFF**	**Tmp ctl ON**	**Tmp ctl ON**
5-2 COT/BCT	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**
5-3 COT/BCT	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**
5-4 COT/BCT	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**
6-1 COT/BCT	**Tmp ctl ON**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl ON**
6-2 COT/BCT	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**
6-3 COT/BCT	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**
6-4 COT/BCT	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**

See next page for TNU specific settings

5.2. System Config Parameter, Spinners (COT/BCT)

Table for Temperature Control Method [TNU]

Module	Resist temp.	Cup temp.	Motor flange temp.	Cup humidity	Cup exhaust flow
4-1 COT	**Tmp ctl ON**	**Tmp ctl ON**	**Tmp ctl OFF**	**Tmp ctl ON**	**Tmp ctl ON**
4-2 COT	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**
4-3 COT	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**
4-4 COT	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**
5-1 COT	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**
5-2 COT	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**
5-3 COT	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**
5-4 COT	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**
6-1 COT	**Tmp ctl ON**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl ON**
6-2 COT	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**
6-3 COT	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**
6-4 COT	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**	**Tmp ctl OFF**

Controller TM150-CHILLER / THC

Item	Resist temp.	Cup temp.	Motor flange temp.	Cup humidity
Controller ID	**TM150-CHILLER**	**TM150-THC**	**TM150-CHILLER**	**TM150-THC**
Channel No. *	**See Table**	**1**	**See Table**	**2**
Monitoring Type *	**See Table**	**See Table**	**Use point read**	**See Table**
Control Method	**Standard**	**Standard**	**Standard**	**Standard**
Usepoint reading method	**AI reading**	**N/A**	**AI reading**	**N/A**
Use Point Offset	**Tool specific**	**Tool specific**	**Tool specific**	**Tool specific**
Band Monitoring Method at Process Start	**Normal**	**Normal**	**Normal**	**Normal**
Band Monitoring Invalid Time at Process Start	**0.0**	**0.0**	**0.0**	**0**
Band Monitoring Determination Method during Processing	**No monitor**	**No monitor**	**No monitor**	**No monitor**
Band Monitoring Determine Time during Processing	**0.0**	**0.0**	**0.0**	**0**
Band Monitoring Value during Processing	**0.00**	**0.00**	**0.00**	**0**
Source Value Monitoring Valid	**See Table**	**See Table**	**N/A**	**See Table**
Source Value Monitoring Band *	**10**	**10**	**N/A**	**10**
Pump Frequency	**Tool specific**	**N/A**	**Tool specific**	**N/A**
Air Blower Frequency	**N/A**	**30 ~ 60 Hz**	**N/A**	**30 ~ 60 Hz**
Initial Data	**22.20**	**22.20**	**22.20**	**40.7**
Overtemperature	**40.00**	**40.00**	**40.00**	**0**
Settling Determination Time	**5.0**	**5.0**	**5.0**	**5**
Settling Time-out Time	**3600**	**3600**	**3600**	**3600**
Offset Setting Method	**Control setting**	**N/A**	**Control setting**	**N/A**
Offset	**0.00**	**N/A**	**0.00**	**N/A**

*=Only present with Temp control ON is active

5.2. System Config Parameter, Spinners (COT/BCT)

*** Table for TM150-CHILLER / THC**

Module	Resist temp.			Cup temp.		Motor flange temp.	Cup humidity	
	Channel No.	Monitoring Type	Source Value Monitoring Valid	Monitoring Type	Source Value Monitoring Valid	Channel No.	Monitoring Type	Source Value Monitoring
4-1 COT	**0**	**Use point ctrl**	**Invalid**	**Use point ctrl**	**Invalid**	**0**	**Use point ctrl**	**Invalid**
4-2 COT	**0**	**Use point read**	**N/A**	**Use point read**	**N/A**	**0**	**Use point read**	**N/A**
4-3 COT	**0**	**Use point read**	**N/A**	**Use point read**	**N/A**	**0**	**Use point read**	**N/A**
4-4 COT	**0**	**Use point read**	**N/A**	**Use point read**	**N/A**	**0**	**Use point read**	**N/A**
5-1 COT	**1**	**Use point ctrl**	**Invalid**	**Use point read**	**N/A**	**1**	**Use point read**	**N/A**
5-1 COT(TBL) 5-1 BCT (BARC)	**1**	**Use point ctrl**	**Invalid**	**Use point ctrl**	**Invalid**	**1**	**Use point ctrl**	**Invalid**
5-2 COT/BCT	**1**	**Use point read**	**N/A**	**Use point read**	**N/A**	**1**	**Use point read**	**N/A**
5-3 COT/BCT	**1**	**Use point read**	**N/A**	**Use point read**	**N/A**	**1**	**Use point read**	**N/A**
5-4 COT/BCT	**1**	**Use point read**	**N/A**	**Use point read**	**N/A**	**1**	**Use point read**	**N/A**
6-1 COT/BCT	**2**	**Use point ctrl**	**Invalid**	**Use point read**	**N/A**	**2**	**Use point read**	**N/A**
6-2 COT/BCT	**2**	**Use point read**	**N/A**	**Use point read**	**N/A**	**2**	**Use point read**	**N/A**
6-3 COT/BCT	**2**	**Use point read**	**N/A**	**Use point read**	**N/A**	**2**	**Use point read**	**N/A**
6-4 COT/BCT	**2**	**Use point read**	**N/A**	**Use point read**	**N/A**	**2**	**Use point read**	**N/A**

Controller EPCA

Item	Cup exhaust flow
Controller ID	**EPCA**
Channel No.	**See Table for Channel No.**
Monitoring Type	**No sync**
Control Method	**Standard**
Band Monitoring Method at Process Start	**Normal**
Band Monitoring Invalid Time at Process Start	**0.0**
Band Monitoring Determination Method during Processing	**No monitor**
Band Monitoring Determination Time during Processing	**1.0**
Band Monitoring Value during Processing	**300**
PID Setting Method	**Control setting**
P Constant	**45.00**
I Constant	**0.3**
Exhaust Pressure Rise Time	**1.0**
Exhaust Pressure Drop Time	**2.0**
Initial Data	**400***
Settling Determination Time	**3.0**
Settling Time-out Time	**1800.0**
Pressure Sensor Type	**1000Pa****

*=620Pa for TNU L4/L6 **= 1000Pa Only present on TNU L4/L6

Table for Channel No.

All Other 1274 Tools		TNU
Module	Channel No.	Channel No.
4-1 COT	2	2
4-2 COT	2	2
4-3 COT	2	2
4-4 COT	2	2
5-1 COT/BCT	3	N/A
5-2 COT/BCT	3	N/A
5-3 COT/BCT	3	N/A
5-4 COT/BCT	3	N/A
6-1 COT/BCT	4	4
6-2 COT/BCT	4	4
6-3 COT/BCT	4	4
6-4 COT/BCT	4	4

Block Arm - Left /Right / Module Arm - Left

Spin Arm Parameter

Item	Block Arm - Left / Right	Module Arm - Left
Rail No.	Lower Rail	Lower Rail
Arm Presence	**Exist**	**Exist**
Middle Wait	**Valid**	**N/A**
Auto Bath Cleaning Interval Time	**900 sec**	**N/A**
Nozzle Type	**Resist Nozzle**	**Rinse Nozzle**
Y-axis Drive Type	**Motor Drive**	**Motor Drive**
Z-axis Drive Type	**Motor Drive**	**Cylinder Drive**
Y-axis Pulse Rate	**0.004883**	**0.006**
Z-axis Pulse Rate	**0.006**	**N/A**
IN, OUT Speed	**205000**	**29000**
IN, OUT Acceleration	**150000**	**290000**
IN, OUT Deceleration	**150000**	**290000**
IN, OUT Speed(Outside the Cup)	**205000**	**N/A**
IN, OUT Acceleration(Outside the Cup)	**150000**	**N/A**
IN, OUT Deceleration(Outside the Cup)	**150000**	**N/A**
UP, DOWN Speed	**16600**	**N/A**
UP, DOWN Acceleration	**166000**	**N/A**
UP, DOWN Deceleration	**166000**	**N/A**
Maintenance Speed	**50%**	**N/A**
Exh Exclusive Control Near Ready Time*	**4.5**	**N/A**

* The parameter only exists on dual arm tracks except TNU.

5.2. System Config Parameter, Spinners (COT/BCT)

Home Offset

	Block Arm - L / R	Module Arm - Left
Z-Axis Home Position Offse	Tool Specific	NA

Home Position

	Block Arm - L / R	Module Arm - Left
Y - Position	Nozzle Specific	Nozzle Specific
Z - Position	Nozzle Specific	Arm Down

Nozzle Offset for all Layers

Nozzle Offset	Nozzle 2	Nozzle 3	Nozzle 4	Nozzle 5	Nozzle 6	Nozzle 7	Nozzle 8	Nozzle 9	Nozzle 10	RRC
Presence	Exist	Exist	Exist	Exist	Exist	Exist	Exist	Exist	Exist	Exist
Y - Position	-9	-18	-27	-36	-54	-63	-72	-81	-90	-45
Z - Position	0	0	0	0	0	0	0	0	0	0

Reference Point

	Block Arm - L / R	Module Arm - Left
Y - axis	Nozzle Specific	Nozzle Specific
Z - axis	Nozzle Specific	Arm Down (Cylinder)

Recipe Position

Recipe Position Name	Block Arm - Left/Right (mm)		Module Arm - Left (mm)	
	Y Position	Z Position	Y Position	Z Position
Module	COT/BCT	COT/BCT	COT/BCT	COT/BCT
Begin	**0.00**	**5.00**	**-106.06**	**Arm Down**
Center	**0.00**	**5.00**	**0.00**	**Arm Down**
End	**0.00**	**5.00**	**-106.06**	**Arm Down**
Dispense 1	**0.00**	**30.00**	**-106.06**	**Arm Down**
Dispense 2	**0.00**	**5.00**	**-106.06**	**Arm Down**
Dispense 3	**0.00**	**5.00**	**-106.06**	**Arm Down**
Dispense 4	**0.00**	**5.00**	**-106.06**	**Arm Down**
Dispense 5	**SEE Table 1**	**85.00**	**-106.06**	**Arm Down**
Edge (B)	**0.00**	**5.00**	**-107.47**	**Arm Down**
Edge (E)	**0.00**	**5.00**	**-106.06**	**Arm Down**
Middle Standby	**SEE Table 2**	**89.01**	**N/A**	**N/A**
MNT 1	**0.00**	**85.00**	**0.00**	**Arm Up**
MNT 2	**0.00**	**5.00**	**0.00**	**Arm Up**
MNT 3	**0.00**	**5.00**	**0.00**	**Arm Up**

Table 1

Dispense 5	Single Arm	Dual Arm
Cup 1	-221+/-2mm	-221+/-2mm
Cup 2	-221+/-2mm	-221+/-2mm
Cup 3	-221+/-2mm	+252+/-2mm
Cup 4	-221+/-2mm	-221+/-2mm

Table 2

Middle Standby	Single Arm	Dual Arm
Cup 1	+192.39mm	+192.39mm
Cup 2	-282.24mm	-282.24mm
Cup 3	-282.24mm	+192.39mm
Cup 4	-282.24mm	-282.24mm

Spin Motor Parameter

Spin Motor Control Data

Rinse Arm No.	**None**
Maximum Speed	**4000.00**
Maximum Acceleration	**30000.00**
Speed at Rinse	**1200.00**
Acceleration at Rinse	**10000.00**
Rinse Time	**15.00**
Spin Off Speed	**2000.00**
Spin Off Acceleration	**10000.00**
Spin Off Time	**10.0**

5.3. System Config Parameter, Spinners (PIR/SRS)

Block 8 IPB, I-Rinse / S-Rinse*

*** For Immersion Configuration ONLY**

Reserved Flag	**Invalid***
Fork Simultaneous Swapping Level	**1-2**
Wafer Store Count	**1**
Start Slot	**0**

Dispense parameter

Local Nozzle

PDR1 N2

Process Recipe Attribute	**Valid**
Dummy Dispense Attribute	**Valid**

Dispense Mechanism Connection [1]

Valid, Invalid	**Valid**

RINSE1

Process Recipe Attribute	**Valid**
Dummy Dispense Attribute	**Valid**

Dispense Mechanism Connection [1]

Valid, Invalid	**Valid**

Dispense Monitoring Mechanism Connection

Valid, Invalid	**Valid**

Fin flow type 1

Dispense Monitoring Type	**Fin flow type 1**

Dispense Monitoring Control Data

Pulse Rate	**0.05**
Delay Time	**0.60**
Set Flow Rate	**150**
Flow Rate Sensor Check Timing	**Dispense end**
Calibration 1	**1.00**
Offset	**0**
Upper Limit Error Level	**30.00%**
Upper Limit Warn Level	**20.00%**
Lower Limit Error Level	**30.00%**
Lower Limit Warning Level	**20.00%**
Dummy Dispense Flow Rate Monitoring Valid/Invalid	**Valid**
Monitoring Flow Rate Upper Limit for Short Time Dispense	**Execute**
Flow Rate Upper Limit Non-monitoring Time for Short Time Dispense	**1.0**

5.3. System Config Parameter, Spinners (PIR/SRS)

BACK RINSE1

Process Recipe Attribute	**Valid**
Dummy Dispense Attribute	**Invalid**

Dispense Mechanism Connection [1]

Valid, Invalid	**Valid**

Dispense Monitoring Mechanism Connection

Valid, Invalid	**Valid**

Fin flow type 1

Dispense Monitoring Type	**Fin flow type 1**

Dispense Monitoring Control Data

Pulse Rate	**0.005**
Delay Time	**0.60**
Set Flow Rate	**200**
Flow Rate Sensor Check Timing	**Dispense end**
Calibration 1	**1.00**
Offset	**0**
Upper Limit Error Level	**30.00%**
Upper Limit Warning Level	**20.00%**
Lower Limit Error Level	**30.00%**
Lower Limit Warning Level	**20.00%**
Dummy Dispense Flow Rate Monitoring Valid/Invalid	**Invalid**
Monitoring Flow Rate Upper Limit for Short Time Dispense	**Execute**
Flow Rate Upper Limit Non-monitoring Time for Short Time Dispense	**1.0**

CUP EXH.

Process Recipe Attribute	**Invalid**
Dummy Dispense Attribute	**Invalid**

Dispense Mechanism Connection [1]

Valid, Invalid	**Valid**

Spinner Exhaust Monitoring Control Data

High Pressure	**0.00**
High Pressure (Error Lower Limit)	**0.00**
Low Pressure	**0.00**
Low Pressure (Error Lower Limit)	**0.00**
Cup EXH. Monitoring Start Delay Time	**2000**
Offset	**0.0**
Cup EXH. Monitoring Valid(1)/Invalid(0)	**0**

5.3. System Config Parameter, Spinners (PIR/SRS)

IE NOZZLE *

Process Recipe Attribute	**Valid**
Dummy Dispense Attribute	**Invalid**

*** For SRS Only**

Dispense Mechanism Connection [1]

Valid, Invalid	**Valid**

Dispense Monitoring Mechanism Connection

Valid, Invalid	**Valid**

Fin flow type 1

Dispense Monitoring Type	**Fin flow type 1**

Dispense Monitoring Control Data

Pulse Rate	**0.005**
Delay Time	**0.60**
Set Flow Rate	**200**
Flow Rate Sensor Check Timing	**Dispense end**
Calibration 1	**1.00**
Offset	**0**
Upper Limit Error Level	**30.00%**
Upper Limit Warning Level	**20.00%**
Lower Limit Error Level	**30.00%**
Lower Limit Warning Level	**20.00%**
Dummy Dispense Flow Rate Monitoring Valid/Invalid	**Invalid**
Monitoring Flow Rate Upper Limit for Short Time Dispense	**Execute**
Flow Rate Upper Limit Non-monitoring Time for Short Time Dispense	**1.0**

5.3. System Config Parameter, Spinners (PIR/SRS)

Monitoring Parameter

Cup temp./ Motor flange temp./ Cup humidity

Item	Cup temp.	Motor flange temp.	Cup humidity
Valid,Invalid	**Valid**	**Valid**	**Valid**
Measured Data ID	**Cup temp.**	**Motor flange temp.**	**Cup humidity**
Recipe Setting Method	**System recipe**	**System recipe**	**System recipe**
Temperature Control Method	**Temp Ctl OFF****	**Temp Ctl OFF**	**Temp Ctl OFF****
Recipe Verify Range Lower Limit	**20.00**	**20.00**	**28.00**
Recipe Verify Range Upper Limit	**27.00**	**25.00**	**55.00**

**= PIR 8-1 for TNU is TMP CRTL ON

Controller TM150-CHILLER / THC

Item	Cup temp.	Motor flange temp.	Cup humidity
Controller ID	**TM150-THC***	**TM150-CHILLER**	**TM150-THC***
Channel No.	**1**	**4**	**2**
Monitoring Type	**Use point read***	**Use point read**	**Use point read***
Control Method	**Standard**	**Standard**	**Standard**
Usepoint reading method	**N/A**	**AI reading**	**N/A**
Use Point Offset	**Tool specific**	**Tool specific**	**Tool specific**
Band Monitoring Method at Process Start	**Normal**	**Normal**	**Normal**
Band Monitoring Invalid Time at Process Start	**0.0**	**0.0**	**0.0**
Band Monitoring Determination Method during Processing	**No monitor**	**No monitor**	**No monitor**
Band Monitoring Determine Time during Processing	**0.0**	**0.0**	**0.0**
Band Monitoring Value during Processing	**0.00**	**0.00**	**0.00**
Pump Frequency	**N/A**	**Tool specific**	**N/A**
Air Blower Frequency	**Tool specific**	**N/A**	**Tool specific**
Initial Data	**22.20**	**22.20**	**40.70**
Overtemperature	**40.00**	**40.00**	**0.00**
Settling Determination Time	**5.0**	**5.0**	**5.0**
Settling Time-out Time	**3600.0**	**3600.0**	**3600.0**
Offset Setting Method	**N/A**	**Control setting**	**N/A**
Offset	**N/A**	**0.00**	**N/A**

*= TNU use Controller ID: (CF9010-F400) See Table 2 below for TNU tools

*** Table 2 for CF9010-F400 --TNU ONLY**

Module	Cup temp.		Cup humidity	
	Monitoring Type	Source Value Monitoring Valid	Monitoring Type	Source Value Monitoring
8-1	**Use point ctrl**	**Valid**	**Use point ctrl**	**Valid**
8-2	**Use point read**	**N/A**	**Use point read**	**N/A**
8-3	**Use point read**	**N/A**	**Use point read**	**N/A**
8-4	**Use point read**	**N/A**	**Use point read**	**N/A**
8-6	**Use point read**	**N/A**	**Use point ctrl**	**N/A**
8-7	**Use point read**	**N/A**	**Use point read**	**N/A**
8-8	**Use point read**	**N/A**	**Use point read**	**N/A**
8-9	**Use point read**	**N/A**	**Use point read**	**N/A**
8-10	**Use point read**	**N/A**	**Use point read**	**N/A**

5.3. System Config Parameter, Spinners (PIR/SRS)

Module Arm - Left

Spinner Arm Control Data

Item	Module Arm - Left
Rail No.	Lower Rail
Arm Presence	**Exist**
Nozzle Type	**Rinse Nozzle**
Y-axis Drive Type	**Motor Drive**
Z-axis Drive Type	**Cylinder Drive**
Y-axis Pulse Rate	**0.012001**
IN, OUT Speed	**29500**
IN, OUT Acceleration	**147000**
IN, OUT Deceleration	**147000**

Home Position

	Module Arm
Y - Position	Nozzle Specific
Z - Position	Arm Down

Reference Point

	Module Arm
Y - axis	Nozzle Specific
Z - axis	Arm Down (Cylinder)

Recipe Position

Recipe Position Name	Module Arm - Left (mm)	
	Y Position	Z Position
Begin	**0.00**	**Arm Down**
Center	**0.00**	**Arm Down**
End	**0.00**	**Arm Down**
Dispense 1	**-158.01**	**Arm Down**
Dispense 2	**-24.00**	**Arm Down**
Dispense 3	**-100.00**	**Arm Down**
Dispense 4	**-130.00**	**Arm Down**
Dispense 5	**0.00**	**Arm Down**
Edge (B)	**0.00**	**Arm Down**
Edge (E)	**0.00**	**Arm Down**
MTN 1	**0.00**	**Arm Up**
MTN 2	**0.00**	**Arm Up**
MTN 3	**0.00**	**Arm Up**

Spin Motor Parameter

Spin Motor Control Data

Rinse Arm No.	**L Arm**
Maximum Speed	**3000.00**
Maximum Acceleration	**10000.00**
Speed at Rinse	**1000.00**
Acceleration at Rinse	**3000.00**
Rinse Time	**15.00**
Spin Off Speed	**1000.00**
Spin Off Acceleration	**3000.00**
Spin Off Time	**15.0**

5.4 Spinner Parameter

Spinner Information Parameter

AutoBathCleaning Time	**1**	**sec**
Water Seal Time Initialize	**30.00**	**sec**
Water Seal Time	**1.50**	**sec**

6. System Config Parameter, Ovens

Block 3/ Block 4/ Block 5/ Block6 PR Block, Chil PHP,PRP (CPHP/CPRP) Modules

Reserved Flag	**Invalid**
Fork Simultaneous Swapping Level	**1-2**
Wafer Store Count	**1**
Start Slot	**0**

Chamber Type

Chamber Type	**SNS Chamber**

Plate Type

Plate Type	*****

* = Type C for CPRP/A2 for CPHP

Cool Arm Parameter

Cool Arm Speed	**STD Speed**

Module Parameter

Monitoring parameter

Plate temp.

Valid,Invalid	**Valid**
Measured Data ID	**Plate temp.**
Recipe Setting Method	**Process recipe**
Temperature Control Method	**Tmp ctl ON**
Recipe Verification Range Lower Limit	**50.00**
Recipe Verification Range Upper Limit	**180.00**

Controller E5ZR

Controller ID	**E5ZR**
Start Channel No.	**0**
End Channel No.	**6**
Monitoring Type	**No sync**
Control Method	**Epsilon ctrl**
Chmber FB Ctrl. Valid	**Valid**
Band Monitoring Method at Process Start	**Setting**
Band Monitoring Invalid Time at Process Start	**40.0**
Band Monitoring Determination Method during Processing	**No monitor**
Band Monitoring Determination Time during Processing	**1.0**
Band Monitoring Value during Processing	**3.00**
PID Setting Method	**Control setting**
P Constant	**1.50**
I Constant	**2.5**
D Constant	**0.5**
Offset Setting Method	**Table setting**
Offset	**0.00**
Display Method Selection	**Display all data**
Stranded Wafer Detection Valid	**Valid**
Stranded Wafer Detection Method	**Lowest Intergrated temp of all channels**
Initial Data	**50.00**
Overtemperature	**185.00**
Settling band*	**0.20**
Settling Determination Time	**3.0**
Settling Time-out Time	**1200.0**
Loop Break Alarm Function Valid/Invalid	**Invalid**

*= ONLY available with CD Optimizer SW

Control Table Data list (Except for BE DRY Tracks listed below)

	Valid, Invalid	Setting Lower	Setting Upper	Accum Threshold	Accum Time	Chm FB Fixed Temp.
Temp. Range	**Valid**	**50.00**	**180.00**	**Not Input**	**Not Input**	**Not Input**
Temp. Range	**Valid**	**50.00**	**Not Input**	**Not Input**	**Not Input**	**35.00**
Temp. Range	**Valid**	**70.00**	**Not Input**	**20.00**	**15.00**	**Tool Specific**
Temp. Range	**Valid**	**75.00**	**Not Input**	**23.33**	**15.00**	**Not Input**
Temp. Range	**Valid**	**80.00**	**81.00**	**26.67**	**15.00**	**Not Input**
Temp. Range	**Valid**	**85.00**	**Not Input**	**30.00**	**15.00**	**Not Input**
Temp. Range	**Valid**	**90.00**	**Not Input**	**33.33**	**15.00**	**Not Input**
Temp. Range	**Valid**	**95.00**	**97.00**	**36.67**	**15.00**	**Not Input**
Temp. Range	**Valid**	**100.00**	**Not Input**	**40.00**	**15.00**	**Tool Specific**
Temp. Range	**Valid**	**105.00**	**Not Input**	**44.00**	**15.00**	**Not Input**
Temp. Range	**Valid**	**110.00**	**Not Input**	**48.00**	**15.00**	**Not Input**
Temp. Range	**Valid**	**115.00**	**Not Input**	**52.00**	**15.00**	**Not Input**
Temp. Range	**Valid**	**120.00**	**Not Input**	**56.00**	**15.00**	**Not Input**
Temp. Range	**Valid**	**125.00**	**Not Input**	**60.00**	**15.00**	**Tool Specific**
Temp. Range	**Valid**	**130.00**	**Not Input**	**64.00**	**15.00**	**Not Input**
Temp. Range	**Valid**	**135.00**	**Not Input**	**68.00**	**15.00**	**Not Input**
Temp. Range	**Valid**	**140.00**	**Not Input**	**72.00**	**15.00**	**Not Input**
Temp. Range	**Valid**	**145.00**	**Not Input**	**76.00**	**15.00**	**Not Input**
Temp Range	**Valid**	**150.00**	**Not Input**	**80.00**	**15.00**	**Tool Specific**

***Wafer Wedge setup by 1mm (wafer guide 5m)**

Control Table Data list for TBL, TBM and (BE193 TNE, TNG only)

	Valid, Invalid	Setting Lower	Setting Upper	Accum Threshold	Accum Time	Chm FB Fixed Temp.
Temp. Range	**Valid**	**50.00**	**180.00**	**Not Input**	**Not Input**	**Not Input**
Temp. Range	**Valid**	**50.00**	**Not Input**	**Not Input**	**Not Input**	**35.00**
Temp. Range	**Valid**	**70.00**	**Not Input**	**20.00**	**15.00**	**Tool Specific**
Temp. Range	**Valid**	**75.00**	**Not Input**	**23.33**	**15.00**	**Not Input**
Temp. Range	**Valid**	**80.00**	**81.00**	**26.67**	**15.00**	**Not Input**
Temp. Range	**Valid**	**85.00**	**Not Input**	**30.00**	**15.00**	**Not Input**
Temp. Range	**Valid**	**90.00**	**Not Input**	**20.00**	**15.00**	**Not Input**
Temp. Range	**Valid**	**90.10**	**Not Input**	**33.33**	**15.00**	**Not Input**
Temp. Range	**Valid**	**95.00**	**97.00**	**36.67**	**15.00**	**Not Input**
Temp. Range	**Valid**	**100.00**	**Not Input**	**20.00**	**15.00**	**Tool Specific**
Temp. Range	**Valid**	**100.10**	**Not Input**	**40.00**	**15.00**	**Not Input**
Temp. Range	**Valid**	**105.00**	**Not Input**	**22.00**	**15.00**	**Not Input**
Temp. Range	**Valid**	**105.10**	**Not Input**	**44.00**	**15.00**	**Not Input**
Temp. Range	**Valid**	**110.00**	**Not Input**	**22.00**	**15.00**	**Not Input**
Temp. Range	**Valid**	**110.10**	**Not Input**	**48.00**	**15.00**	**Not Input**
Temp. Range	**Valid**	**115.00**	**Not Input**	**26.00**	**15.00**	**Not Input**
Temp. Range	**Valid**	**115.10**	**Not Input**	**52.00**	**15.00**	**Not Input**
Temp. Range	**Valid**	**120.00**	**Not Input**	**28.00**	**15.00**	**Not Input**
Temp. Range	**Valid**	**120.10**	**Not Input**	**56.00**	**15.00**	**Not Input**
Temp. Range	**Valid**	**125.00**	**Not Input**	**60.00**	**15.00**	**Tool Specific**
Temp. Range	**Valid**	**130.00**	**Not Input**	**32.00**	**15.00**	**Not Input**
Temp. Range	**Valid**	**130.10**	**Not Input**	**64.00**	**15.00**	**Not Input**
Temp. Range	**Valid**	**135.00**	**Not Input**	**68.00**	**15.00**	**Not Input**
Temp. Range	**Valid**	**140.00**	**Not Input**	**72.00**	**15.00**	**Not Input**
Temp. Range	**Valid**	**145.00**	**Not Input**	**76.00**	**15.00**	**Not Input**
Temp. Range	**Valid**	**150.00**	**Not Input**	**80.00**	**15.00**	**Tool Specific**
Temp. Range	**Valid**	**180.00**	**Not Input**	**150.00**	**15.00**	**Tool Specific**

***Wafer Wedge setup by 1mm (wafer guide 5m)**

6. System Config Parameter, Ovens

Block 3/ Block 4/ Block 5/ Block6 PR Block, Chil PHP,PRP (CPHP,CPRP) Modules

Control Table Data (Temperature Range 50.00-180.00)

	Table Data 1	Table Data 2	Table Data 3	Table Data 4	Table Data 5	Table Data 6	Table Data 7	
Offset	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	
P	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	
I	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	
D	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	
Epsilon*	**0.10**	**-0.50**	**-0.50**	**-0.20**	**-0.20**	**-0.20**	**-0.20**	*** CPRP**
Epsilon**	**-1.20**	**-0.50**	**-0.50**	**1.10**	**1.10**	**1.10**	**1.10**	****CPHP**

Control Table Data (Temperature Range 70, 100, 125, 150, 180)

	Table Data 1	Table Data 2	Table Data 3	Table Data 4	Table Data 5	Table Data 6	Table Data 7
Offset	**Tool Specific**	**Tool Specific**	**Tool Specific**	**Tool Specific**	**Tool Specific**	**Tool Specific**	**Tool Specific**
P	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**
I	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**
D	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**
Epsilon	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**

Control Table Data (All Other)

	Table Data 1	Table Data 2	Table Data 3	Table Data 4	Table Data 5	Table Data 6	Table Data 7
Offset	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**
P	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**
I	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**
D	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**
Epsilon	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**

Cool Arm Chilly Water temp.

Valid,Invalid	**Valid**
Measured Data ID	**Cool Arm Chilly Water Temp**
Recipe Setting Method	**System recipe**
Temperature Control Method	**Tmp ctl OFF**
Recipe Verification Range Lower Limit	**20.00**
Recipe Verification Range Upper Limit	**25.00**

Controller TM150-CHILLER

Controller ID	**TM150-CHILLER**
Channel No.	**4**
Monitoring Type	**Use Point Read**
Control Method	**Standard**
Usepoint reading method	**AI reading**
Use Point Offset	**Tool specific**
Band Monitoring Method at Process Start	**Normal**
Band Monitoring Invalid Time at Process Start	**0.0**
Band Monitoring Determination Method during Processing	**No Monitor**
Band Monitoring Determine Time during Processing	**0.0**
Band Monitoring Value during Processing	**0.00**
Pump Frequency	**30 ~ 60**
Initial Data	**22.20**
Overtemperature	**40.0**
Settling Determination Time	**5.0**
Settling Time-out Time	**3600.0**
Offset Setting Method*	**Control setting**
Offset*	**0.00**

*** Not exist v214 beyond**

6. System Config Parameter, Ovens

Block 3/ Block 4/ Block 5/ Block6 PR Block, Chil PHP,PRP (CPHP,CPRP) Modules

Chamber temp.

Valid,Invalid	**Valid**
Measured Data ID	**Chamber temp.**
Recipe Setting Method	**Local**
Temperature Control Method	**Tmp ctl ON**
Recipe Verification Range Lower Limit	**50.00**
Recipe Verification Range Upper Limit	**250.00**

Controller E5ZR

Controller ID	**E5ZR**
Start Channel	**7**
End Channel	**7**
Monitoring Type	**No sync**
Control Method	**Epsilon ctrl**
Band Monitoring Method at Process Start	**Normal**
Band Monitoring Invalid Time at Process Star	**0.0**
Band Monitoring Determination Method during Processing	**No monitor**
Band Monitoring Determination Time during Processing	**1.0**
Band Monitoring Value during Processing	**3.00**
PID Setting Method	**Control setting**
P Constant	**4.60**
I Constant	**16.4**
D Constant	**2.5**
Offset Setting Method	**Table setting**
Offset	**0.00**
Display Method Selection	**Display all data**
Stranded Wafer Detection Method	**Invalid**
Initial Data	**50.00**
Overtemperature	**190.00**
Settling Determination Time	**3.0**
Settling Time-out Time	**1200.0**

Control Table Data list "Chamber Feedback"

	Valid / Invalid	Setting Lower	Setting Upper	Accum Thresh	Accum Time	Chm. FB Fixed Temp
Temp Range 1	Valid	Not Input	Not Input	Not Input	Not Input	Not Input
Temp Range 2	Valid	Not Input	Not Input	Not Input	Not Input	Not Input
Temp Range 3	Valid	Not Input	Not Input	Not Input	Not Input	Not Input
Temp Range 4	Valid	Not Input	Not Input	Not Input	Not Input	Not Input
Temp Range 5	Valid	Not Input	Not Input	Not Input	Not Input	Not Input
Temp Range 6	Valid	Not Input	Not Input	Not Input	Not Input	Not Input
Temp Range 7	Valid	Not Input	Not Input	Not Input	Not Input	Not Input
Temp Range 8	Valid	Not Input	Not Input	Not Input	Not Input	Not Input

Control Table Data "All Temp"

	Table Data 1	Table Data 2	Table Data 3	Table Data 4	Table Data 5	Table Data 6	Table Data 7	Table Data 8
Offset	Not Input	Not Input	Not Input	Not Input	Not Input	Not Input	Not Input	Not Input
P	Not Input	Not Input	Not Input	Not Input	Not Input	Not Input	Not Input	Not Input
I	Not Input	Not Input	Not Input	Not Input	Not Input	Not Input	Not Input	Not Input
D	Not Input	Not Input	Not Input	Not Input	Not Input	Not Input	Not Input	Not Input
Epsilon	Not Input	Not Input	Not Input	Not Input	Not Input	Not Input	Not Input	Not Input

6. System Config Parameter, Ovens

Block 5/ Block6 PR Block, [CGCH] Chil. General Heat Chamber HP Modules

Reserved Flag	**Invalid**
Fork Simultaneous Swapping Level	**1-2**
Wafer Store Count	**1**
Start Slot	**0**

FOR BARC Tools ONLY

Chamber Type

Chamber Type	**STD Chamber**

Plate Type

Plate Type	**B2**

Cool Arm Parameter

Cool Arm Speed	**STD Speed**

Monitoring parameter

Plate temp.

Valid,Invalid	**Valid**
Measured Data ID	**Plate temp.**
Recipe Setting Method	**Process recipe**
Temperature Control Method	**Tmp ctl ON**
Recipe Verification Range Lower Limit	**50.00**
Recipe Verification Range Upper Limit	**250.00**

Controller REX-B879

Controller ID	**REX-B879**
Start Channel No.	**0**
End Channel No.	**6**
Monitoring Type	**No sync**
Control Method	**PID Control**
Band Monitoring Method at Process Start	**Setting**
Band Monitoring Invalid Time at Process Start	**40.0**
Band Monitoring Determination Method during Processing	**No monitor**
Band Monitoring Determination Time during Processing	**1.0**
Band Monitoring Value during Processing	**3.00**
PID Setting Method	**Table setting**
P Constant	**1.00**
I Constant	**5.9**
D Constant	**1.5**
Offset Setting Method	**Table setting**
Offset	**0.00**
Display Method Selection	**Display all data**
Stranded Wafer Detection Valid	**Valid**
Stranded Wafer Detection Method	**Lowest Intergrated temp of all channels**
Initial Data	**50.00**
Overtemperature	**255.00**
Settling Determination Time	**3.0**
Settling Time-out Time	**2600.0**
Loop Break Alarm Function Valid/Invalid	**Invalid**

Control Table Data list

	Valid, Invalid	Setting Lower	Setting Upper	Accum Threshold	Accum Time
Temp. Range1	**Valid**	**50.00**	**250.00**	**Not Input**	**Not Input**
Temp. Range2	**Valid**	**170.00**	**Not Input**	**35.00**	**15.00**
Temp. Range3	**Valid**	**175.00**	**Not Input**	**38.00**	**15.00**
Temp. Range4	**Valid**	**190.00**	**Not Input**	**46.00**	**15.00**
Temp. Range5	**Valid**	**205.00**	**Not Input**	**55.00**	**15.00**
Temp. Range6	**Valid**	**225.00**	**Not Input**	**72.50**	**15.00**
Temp. Range7	**Valid**	**250.00**	**Not Input**	**110.00**	**15.00**

*** Wafer wedge set up by 1mm ring. (Wafer guide 5mm)**

Cool Arm Chilly Water temp.

Valid,Invalid	**Valid**
Measured Data ID	**Cool Arm Chilly Water Temp**
Recipe Setting Method	**System recipe**
Temperature Control Method	**Tmp ctl OFF**
Recipe Verification Range Lower Limit	**20.00**
Recipe Verification Range Upper Limit	**25.00**

Controller TM150-CHILLER

Controller ID	**TM150-CHILLER**
Channel No.	**4**
Monitoring Type	**Use Point Read**
Control Method	**Standard**
Usepoint reading method	**AI reading**
Use Point Offset	**Tool specific**
Band Monitoring Method at Process Start	**Normal**
Band Monitoring Invalid Time at Process Start	**0.0**
Band Monitoring Determination Method during Processing	**No Monitor**
Band Monitoring Determine Time during Processing	**0.0**
Band Monitoring Value during Processing	**0.00**
Pump Frequency	**30 ~ 60**
Initial Data	**22.20**
Overtemperature	**40.0**
Settling Determination Time	**5.0**
Settling Time-out Time	**3600.0**
Offset Setting Method	**Control setting**
Offset	**0.00**

6. System Config Parameter, Ovens

Block 5/ Block6 PR Block, [CGCH] Chil. General Heat Chamber HP Modules

Control Table Data (Temperature Range 50.00-250.00)

	Table Data 1	Table Data 2	Table Data 3	Table Data 4	Table Data 5	Table Data 6	Table Data 7
Offset	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**
P	**1.0**	**1.0**	**1.0**	**1.8**	**1.8**	**1.8**	**1.8**
I	**5.9**	**5.9**	**5.9**	**5.9**	**5.9**	**5.9**	**5.9**
D	**1.5**	**1.5**	**1.5**	**1.5**	**1.5**	**1.5**	**1.5**

Control Table Data (Temperature Range 170, 205, 250)

	Table Data 1	Table Data 2	Table Data 3	Table Data 4	Table Data 5	Table Data 6	Table Data 7
Offset	**Tool Specific**	**Tool Specific**	**Tool Specific**	**Tool Specific**	**Tool Specific**	**Tool Specific**	**Tool Specific**
P	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**
I	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**
D	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**

Control Table Data (All Other)

	Table Data 1	Table Data 2	Table Data 3	Table Data 4	Table Data 5	Table Data 6	Table Data 7
Offset	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**
P	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**
I	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**
D	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**

Monitoring parameter

Cover temp.

Valid,Invalid	**Valid**
Measured Data ID	**Cover Temp**
Recipe Setting Method	**Local**
Temperature Control Method	**Tmp ctl ON**
Recipe Verification Range Lower Limit	**50.00**
Recipe Verification Range Upper Limit	**180.00**

Controller REX-B879

Controller ID	**REX-B879**
Start Channel No.	**7**
End Channel No.	**7**
Monitoring Type	**No sync**
Control Method	**PID Control**
Band Monitoring Method at Process Start	**Setting**
Band Monitoring Invalid Time at Process Start	**40.0**
Band Monitoring Determination Method during Processing	**No monitor**
Band Monitoring Determination Time during Processing	**1.0**
Band Monitoring Value during Processing	**3.00**
PID Setting Method	**Control Setting**
P Constant	**2.60**
I Constant	**24.0**
D Constant	**6.0**
Offset Setting Method	**Table setting**
Offset	**0.00**
Display Method Selection	**Display all data**
Stranded Wafer Detection Valid	**Invalid**
Initial Data	**50.00**
Overtemperature	**185.00**
Settling Determination Time	**3.0**
Settling Time-out Time	**2600.0**

Control Table Data list

	Valid, Invalid	Setting Lower	Setting Upper	Accum Threshold	Accum Time
Temp. Range1	**Valid**	**180.00**	**Not Input**	**Not Input**	**Not Input**
Temp. Range2	**Invalid**	**Not Input**	**Not Input**	**Not Input**	**Not Input**
Temp. Range3	**Invalid**	**Not Input**	**Not Input**	**Not Input**	**Not Input**
Temp. Range4	**Invalid**	**Not Input**	**Not Input**	**Not Input**	**Not Input**
Temp. Range5	**Invalid**	**Not Input**	**Not Input**	**Not Input**	**Not Input**
Temp. Range6	**Invalid**	**Not Input**	**Not Input**	**Not Input**	**Not Input**
Temp. Range7	**Invalid**	**Not Input**	**Not Input**	**Not Input**	**Not Input**
Temp. Range8	**Invalid**	**Not Input**	**Not Input**	**Not Input**	**Not Input**

Control Table Data (Temperature Range 180.00)

	Table Data 1	Table Data 2	Table Data 3	Table Data 4	Table Data 5	Table Data 6	Table Data 7
Offset	**Tool Specific**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**
P	**2.6**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**
I	**24**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**
D	**6**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**

Control Table Data (All Other)

	Table Data 1	Table Data 2	Table Data 3	Table Data 4	Table Data 5	Table Data 6	Table Data 7
Offset	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**
P	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**
I	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**
D	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**	**Not Input**

6. System Config Parameter, Ovens

Block 2 MP Block/ Block 8 IPB, Chil Plt (CPL) Modules

Reserved Flag	**Invalid**
Fork Simultaneous Swapping Level	**Invalid**
Wafer Store Count	**1**
Start Slot	**0**

Monitoring parameter

Plate Chilly Water temp.

Valid,Invalid	**Valid**
Measured Data ID	**Plate Chilly Water**
Recipe Setting Method	**System recipe**
Temperature Control Method	**See Table1**
Recipe Verification Range Lower Limit	**20.00**
Recipe Verification Range Upper Limit	**25.00**

Controller TM150-CHILLER

Controller ID	**TM150-CHILLER**
Channel No.	**See Table 1**
Monitoring Type	**See Table 1**
Control Method	**Standard**
Usepoint reading method	**AI reading**
Use Point Offset	**See Table 1**
Band Monitoring Method at Process Start	**Normal**
Band Monitoring Invalid Time at Process Start	**0.0**
Band Monitoring Determination Method during Processing	**No monitor**
Band Monitoring Determination Time during Processing	**0.0**
Band Monitoring Value during Processing	**0.00**
Source Value Monitoring Valid	**See Table 1**
Source Value Monitoring Band	**See Table 1**
Pump Frequency	**30 ~ 60**
Initial Data	**See Table 1**
Overtemperature	**40.00**
Standed Wafer Detection Valid	**Valid**
Detect Time	**3.00**
Settling Determination Time	**5.0**
Settling Time-out Time	**3600.0**
Offset Setting Method	**Control setting**
Offset	**0.00**

Table 1

Configuration	Module	Controller TM150-CHILLER		Plate Chilly Wafer temp.	Use Point Offset	Initial Data	Souce Value Monitoring Valid	Souce Value Monitoring Band %
		Channel No.	Monitoring Type	Temperature Control Method	Temperature Control Method	Temperature		
Non-CE TNE 4x4 Imm 8x0 TAQ	2-16 CPL	4	Use point control	Tmp ctl ON	Tool Specific	22.2	Valid	10
Non-CE TNE 4x4 Imm 8x0 TAQ	2-17 CPL	4	Use point read	Tmp ctl OFF	0.00	22.2	N/A	N/A
Imm	8-21 CPL	3	Use point control	Tmp ctl ON	Tool Specific	*	Valid	10
Imm	8-22 CPL	3	Use point read	Tmp ctl OFF	0.00	*	N/A	N/A
Dry	7-11 CPL	3	Use point control	Tmp ctl ON	Tool Specific	*	Valid	10
Dry	7-12 CPL	3	Use point read	Tmp ctl OFF	0.00	*	N/A	N/A
BARC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

* NIKON = 22.2C AND ASML = 22.0C

6. System Config Parameter, Ovens

Block 2 MP Block/ Block 3 PR Block/ Block 7 MP Block, S-CPL (SCPL) Modules

Reserved Flag	**Invalid**
Fork Simultaneous Swapping Level	**1-2**
Wafer Store Count	**1**
Start Slot	**0**

Plate Vacuum

Plate Vacuum	**With**

Plate Vac Control Info

Plate Vac Check Start Timing	**5000**
Plate VacOff Timing	**2000**

Monitoring parameter

Plate Chilly Water temp.

Valid,Invalid	**Valid**
Measured Data ID	**Plate Chilly Water**
Recipe Setting Method	**System recipe**
Temperature Control Method	**See Table**
Recipe Verification Range Lower Limit	**20.00**
Recipe Verification Range Upper Limit	**25.00**

Controller TM150-CHILLER

Controller ID	**TM150-CHILLER**
Channel No.	**See Table 2 next page**
Monitoring Type	**See Table 2 next page**
Control Method	**Standard**
Usepoint reading method	**AI reading**
Use Point Offset	**See Table 2 next page**
Band Monitoring Method at Process Start	**Normal**
Band Monitoring Invalid Time at Process Start	**0.0**
Band Monitoring Determination Method during Processing	**No Monitor**
Band Monitoring Determine Time during Processing	**0.0**
Band Monitoring Value during Processing	**0.00**
Source Value Monitoring Valid	**See Table 2 next page**
Source Value Monitoring Band	**See Table 2 next page**
Pump Frequency	**30 ~ 60**
Initial Data	**See Table 2 next page**
Overtemperature	**40.0**
Standed Wafer Detection Valid	**Valid**
Detect Time	**3.00**
Settling Determination Time	**5.0**
Settling Time-out Time	**3600.0**
Offset Setting Method	**Control setting**
Offset	**0.00**

Table 2

Configuration	Module	Controller TM150-CHILLER		Plate Chilly Wafer temp.	Use Point Offset	Initial Data	Souce Value Monitoring Valid	Souce Value Monitoring Band %
		Channel No.	Monitoring Type	Temperature Control Method	Temperature Control Method	Temperature		
TBL DRY w/ HTP TBM	2-15 SCPL	5	Use point control	Tmp ctl ON	Tool Specific	23	Valid	10
CE TNE TNG 6x6 Imm	2-23 SCPL	4	Use point control	Tmp ctl ON	Tool Specific	22.2	Valid	10
Non-CE TNE HVM TNE 4x4 Imm DRY w/ HTP TBM	2-23 SCPL	4	Use point read	Tmp ctl OFF	0	22.2	N/A	N/A
Dry / Imm	2-24 SCPL	4	Use point read	Tmp ctl OFF	0	22.2	N/A	N/A
Dry / Imm	2-25 SCPL	4	Use point read	Tmp ctl OFF	0	22.2	N/A	N/A
6x6 Imm	2-33 SCPL	5	Use point read	Tmp ctl OFF	0	23	N/A	N/A
6x6 Imm	2-34 SCPL	5	Use point read	Tmp ctl OFF	0	23	N/A	N/A
6x6 Imm	2-35 SCPL	5	Use point read	Tmp ctl OFF	0	23	N/A	N/A
Dry / Imm	3-41 SCPL	5	Use point control	Tmp ctl ON	Tool Specific	23	Valid	10
TBL / TBM CE TNE w/ HTP Non-CE TNE w/ HTP HVM-TNE w/ HTP TNG w/ HTP	3-41 SCPL	5	Use point read	Tmp ctl OFF	0	23	N/A	N/A
Dry / Imm	3-42 SCPL	5	Use point read	Tmp ctl OFF	0	23	N/A	N/A
Dry / Imm	3-43 SCPL	5	Use point read	Tmp ctl OFF	0	23	N/A	N/A
Non-CE TNE / HVM TNE / 4x4 Imm	7-33 SCPL	4	Use point read	Tmp ctl OFF	0	22.2	N/A	N/A
BARC / TBL Non-CE TNE w/ HTP HVM-TNE w/ HTP	7-33 SCPL	4	Use point control	Tmp ctl ON	Tool Specific	22.2	Valid	10
All ProV	7-34 SCPL	4	Use point read	Tmp ctl OFF	0	22.2	N/A	N/A
All ProV	7-35 SCPL	4	Use point read	Tmp ctl OFF	0	22.2	N/A	N/A
All ProV	7-43 SCPL	4	Use point read	Tmp ctl OFF	0	22.2	N/A	N/A
CE TNE w/ HTP TNG w/ HTP TBM	7-43 SCPL	4	Use point control	Tmp ctl ON	Tool Specific	22.2	Valid	10
All ProV	7-44 SCPL	4	Use point read	Tmp ctl OFF	0	22.2	N/A	N/A
All ProV	7-45 SCPL	4	Use point read	Tmp ctl OFF	0	22.2	N/A	N/A
DRY w/ HTP TBM	7-46 SCPL	4	Use point read	Tmp ctl OFF	0	22.2	N/A	N/A

6. System Config Parameter, Ovens

Block 4 PR Block, C.ADH (ADH) Modules

Reserved Flag	**Invalid**
Fork Simultaneous Swapping Level	**1-2**
Wafer Store Count	**1**
Start Slot	**0**

Chamber Type

Chamber Type	**STD Chamber**

Cool Arm Parameter

Cool Arm Speed	**STD Speed**

Plate Type

Plate Type	**Type B**

Module Parameter

Dispense Parameter - Local Nozzle - HMDS VAPOR

Process Recipe Attribute	**Valid**
Dummy Dispense Attribute	**Valid**

Dispense Mechanism Connection

Valid, Invalid	**Valid**

Dispense Monitoring Mechanism Connection

Valid, Invalid	**Valid**

Mass flow meter

Dispense Monitoring Type	**Mass flow meter**

Supply System

Valid, Invalid	**Valid**

Dispense Monitoring Control Data

Pulse Rate	**0.05**
Delay Time	**0.60**
Set Flow Rate	**2500**
Flow Rate Sensor Check Timing	**Dispense end**
Calibration 1	**Tool Specific**
Offset	**0**
Upper Limit Error Level	**30.00%**
Upper Limit Warning Level	**20.00%**
Lower Limit Error Level	**30.00%**
Lower Limit Warning Level	**20.00%**
Dummy Dispense Flow Rate Monitoring Valid/Invalid	**Invalid**
Monitoring Flow Rate Upper Limit for Short Time Dispense	**Execute**
Flow Rate Upper Limit Non-monitoring Time for Short Time Dispense	**1.0**

HMDS Supply System

Refill Monitoring Time	**180 sec**
Exhaust Value Close Delay Time	**1.0 sec**
HL Sensor Watch Time	**4.0 sec**

Container Refill System

Valid, Invalid	**Valid**
Prior Pressurization Time	**20.0 sec**

Automatic Air Vent

Air Vent Monitoring Time	**30 sec**
Delay Time After LE Detection	**1.0 sec**
Prior Pressurization Time	**5.0 sec**

CHAMBER EXH.

Process Recipe Attribute	**Valid**
Dummy Dispense Attribute	**Valid**

Dispense Mechanism Connection

Valid, Invalid	**Valid**

Dispense Monitoring Mechanism Connection

Valid, Invalid	**Valid**

Mass flow meter

Dispense Monitoring Type	**Mass flow meter**

Dispense Monitoring Control Data

Pulse Rate	**0.05**
Delay Time	**0.60**
Set Flow Rate	**5000**
Flow Rate Sensor Check Timing	**Dispense end**
Calibration 1	**Tool Specific**
Offset	**0**
Upper Limit Error Level	**30.00%**
Upper Limit Warning Level	**20.00%**
Lower Limit Error Level	**30.00%**
Lower Limit Warning Level	**20.00%**
Dummy Dispense Flow Rate Monitoring Valid/Invalid	**Valid**
Monitoring Flow Rate Upper Limit for Short Time Disp.	**Execute**
Flow Rate Upper Limit Non-monitoring Time for Short Time Dispense	**1.0**

6. System Config Parameter, Ovens

Block 4 PR Block, C.ADH (ADH) Modules
BUFFER BUBBLING

Process Recipe Attribute	**Valid**
Dummy Dispense Attribute	**Valid**

Dispense Mechanism Connection

Valid, Invalid	**Valid**

Monitoring parameter

Plate temp.

Valid,Invalid	**Valid**
Measured Data ID	**Plate temp.**
Recipe Setting Method	**Process recipe**
Temperature Control Method	**Tmp ctl ON**
Recipe Verification Range Lower Limit	**50.00**
Recipe Verification Range Upper Limit	**180.00**

Controller REX-B875

Controller ID	**REX-B875**
Channel No.	**0**
Monitoring Type	**No sync**
Control Method	**Overshoot Rest ctrl**
Band Monitoring Method at Process Start	**Normal**
Band Monitoring Invalid Time at Process Star	**0.0**
Band Monitoring Determination Method	**No monitor**
Band Monitoring Determination Time	**1.0**
Band Monitoring Value during Processing	**3.00**
PID Setting Method	**Control setting**
P Constant	**0.45**
I Constant	**12.0**
D Constant	**3.0**
Offset Setting Method	**Table setting**
Offset	**0.00**
Stranded Wafer Detection Valid	**Valid**
Initial Data	**50.00**
Overtemperature	**185.00**
Settling Determination Time	**30.0**
Settling Time-out Time	**1800.0**
Loop Break Alarm Function Valid/Invalid	**Invalid**

Control Table Data list (except for BE DRY Track listed below)

	Valid,Invalid	Setting Lower	Setting Upper	Accum Threshold	Accum Time
Temperature Range1	**Valid**	**50.00**	**180.00**	**Not Input**	**Not Input**
Temperature Range2	**Valid**	**90.00**	**Not Input**	**37.00**	**10.000**
Temperature Range3	**Valid**	**110.00**	**Not Input**	**52.00**	**10.000**
Temperature Range4	**Valid**	**150.00**	**Not Input**	**80.00**	**10.000**
Temperature Range5	**Invalid**	**Not Input**	**Not Input**	**Not Input**	**Not Input**
Temperature Range6	**Invalid**	**Not Input**	**Not Input**	**Not Input**	**Not Input**
Temperature Range7	**Invalid**	**Not Input**	**Not Input**	**Not Input**	**Not Input**

*** Wafer wedge set up by 3mm ring. (Wafer guide 3mm)**

Control Table Data list for TBL, TBM and (BE193 TNE, TNG only)

	Valid,Invalid	Setting Lower	Setting Upper	Accum Threshold	Accum Time
Temperature Range1	**Valid**	**50.00**	**180.00**	**Not Input**	**Not Input**
Temperature Range2	**Valid**	**90.00**	**Not Input**	**37.00**	**10.000**
Temperature Range3	**Valid**	**110.00**	**Not Input**	**52.00**	**10.000**
Temperature Range4	**Valid**	**150.00**	**Not Input**	**40.00**	**10.000**
Temperature Range5	**Valid**	**150.10**	**Not Input**	**80.00**	**10.000**
Temperature Range6	**Invalid**	**Not Input**	**Not Input**	**Not Input**	**Not Input**
Temperature Range7	**Invalid**	**Not Input**	**Not Input**	**Not Input**	**Not Input**

*** Wafer wedge set up by 3mm ring. (Wafer guide 3mm)**

Control Table Data
All Other Temperature Ranges

	Table Data 1
Offset	**Not Input**
P	**Not Input**
I	**Not Input**
D	**Not Input**

Control Table Data
(Temperature Range 150.00)

	Table Data 1
Offset	**Module Specific**
P	**Not Input**
I	**Not Input**
D	**Not Input**

Cool Arm Chilly Water temp.

Valid,Invalid	**Valid**
Measured Data ID	**Cool Arm Chilly Water Temp**
Recipe Setting Method	**System recipe**
Temperature Control Method	**Tmp ctl OFF**
Recipe Verification Range Lower Limit	**20.00**
Recipe Verification Range Upper Limit	**25.00**

Controller TM150-CHILLER

Controller ID	**TM150-CHILLER**
Channel No.	**4**
Monitoring Type	**Use point read**
Control Method	**Standard**
Use Point Reading Method	**AI Reading**
Use Point Offset	**0.00**
Band Monitoring Method at Process Start	**Normal**
Band Monitoring Invalid Time at Process Star	**0.0**
Band Monitoring Determination Method during Processing	**No monitor**
Band Monitoring Determination Time during Processing	**0.0**
Band Monitoring Value during Processing	**0.00**
Pump Frequency	**30 ~ 60**
Initial Data	**22.20**
Overtemperature	**40.00**
Settling Determination Time	**5.0**
Settling Time-out Time	**3600.0**
Offset Setting Method	**Control setting**
Offset	**0.00**

6. System Config Parameter, Ovens

Block 2/ Block 7 MP Block, Buffer (SBU) Modules

Reserved Flag	**Invalid**
Fork Simultaneous Swapping Level	**Invalid**
Wafer Store Count	**5 ***
Start Slot	**1**

*** 10 for 2-41 SBU only.**

	MPRA	PRA
Pitch between Slots	**1925**	**2666***

***=Does not exist for 2-41 SBU**

Block 2/ Block 4 /Block 7 MP Block/ Block 8 IPB, Trans (TRS) Modules

Reserved Flag	**Invalid**
Fork Simultaneous Swapping Level	**Invalid**
Wafer Store Count	**1**
Start Slot	**0**

Block 4/ Block 5/ Block6 PR Block, Cup Wash (CWH) Modules

Reserved Flag	**Invalid**
Fork Simultaneous Swapping Level	**Invalid**
Wafer Store Count	**1**
Start Slot	**0**

Block 7 (DRY)/ 8 (Immersion), Shuttle (ISHU) Module

Reserved Flag	**Invalid**
Fork Simultaneous Swapping Level	**Invalid**
Wafer Store Count	**2**
Start Slot	**0**

Interface Shuttle Control Parameter

Speed Rate	**100%**
Maintenance Speed	**50%**
Receive Position	**Tool Specific**
Receive Wait Position	**0**
Send Position	**Tool Specific**
Send Wait Position	**Tool Specific**

Block 8 IPB, Resume (RSM) Modules

Reserved Flag	**Invalid**
Fork Simultaneous Swapping Level	**Invalid**
Wafer Store Count	**1**
Start Slot	**0**

Block 8 (DRY) / 9 (Immersion) IFB Sub, Exposure Interface (EIF) Modules

Reserved Flag	**Invalid**
Fork Simultaneous Swapping Level	**Invalid**
Wafer Store Count	**Tool Specific**
Start Slot	**0**

*** Scanner dependent: ASML=15 , Nikon=5**

7. AMHS Parameter

AMHS Monitor Timer

AMHS Maker	**E84**
AMHS TYPE	**Type 4**
Timer 1 Load(Unload) Request ON => TR Request ON	**2**
Timer 2 Ready ON => Busy ON	**2**
Timer 3 Busy ON => Carrier Detect(Remove)	**60**
Timer 4 Load(Unload) Request => Busy OFF	**60**
Timer 5 ready OFF => Valid OFF	**2**
Timer 6 Valid OFF => Valid ON(Continuous Handoff)	**2**
Curtain Sensor	**Invalid**

8. System Parameter

GJG

SW Access before Carrier Load	**Unnecessary**
SW Access after Carrier Load	**Unnecessary**
SW Access before Carrier Unload	**Unnecessary**
SW Access after Carrier Unload	**Unnecessary**
Carrier Detect Timer	**20000 msec**
Carrier Confirm Timer	**10000 msec**
Carrier Load Complete Timer	**20000 msec**
Carrier Unload Complete Timer	**20000 msec**
Unclamp Control in Automatic Mode	**After Undock**
\"CJ Pausing\" Alarm Issue	**Execute**
\"PJ Pausing\" Alarm Issue	**Execute**
Verify Skip Setting in Local Mode	**Not Execute**
Option The Number of Remaining Wafers before Reporting Carrier Approaching Completion Event	**0**

Others

Automatic Registration Editor Level	**Initialize Screen Level**
LoadportTransfer Operation Level	**User Service**
Alarm Recovery Operation Level	**User Service**
Ingenio GL user account	**Fixed Ingenio GL user account**
WEE Centering Monitoring Range Setting	**2000 um**
NCSX	**Valid**
Time before Screen Saver Activation	**10 (Default) min**
Prevention of Dispensing Outside of Cup by Spinner Recipe Verification	**Valid**
Dispensing Invalidation during Wafer Processing	**Invalid**
Monitoring Time Setting for Resist Un-dispensing	**300 sec**
Protection Against Incorrect Setting of Exhaust Control in COT Recipes	**Invalid**
Protection Against Incorrect Setting of Exhaust Control in DEV Recipes	**Invalid**
Acceptable Delay Time before Reporting Macro Inspection Result	**30 sec**
MCI Heart Beat	**Invalid**
DDS mis-detection prevention function at time equipped with DDS	**Invalid**
Dispense 128 Online Support	**Valid**
Band Range Verification for Plate Temperature of ADH-Type Module (Thick Hot Plate)	**Invalid**
Band Range Verification for Plate Temperature of ADH-Type Module (Thin Hot Plate)	**Invalid**
DCI Heart Beat	**Invalid**
Delay time after pin-up of ISHU OUT side	**0.00sec**
Monitor at PIN UP Operation Upper Limit Time (Movable Chamber Oven)	**1500ms**
Monitor at PIN UP Operation Upper Limit Time (Fixed Chamber Oven)	**1500ms**
Monitor at PIN UP Operation Upper Limit Time (CPL-Type)	**1500ms**
Monitor at PIN UP Operation Lower Limit Time (Movable Chamber Oven)	**400ms**
Monitor at PIN UP Operation Lower Limit Time (Fixed Chamber Oven)	**400ms**
Monitor at PIN UP Operation Lower Limit Time (CPL-Type)	**400ms**
Automatic ESD collection	**Invalid**
Guard against Interference of Arm and Cup in Spinner Module	**Valid**
Recipe Verification Warning Display for Unset External Control Data	**Display**
Dispense Parameter Log Output at Parameter Transfer	**Invalid**
Self-diagnostic information logging	**Valid**
Brush Pressure Setting during BST wafer Processing	**Invalid**
Time Interval between Rechecking of Upstream Linked Recipes	**200 ms**
Recipe Security for TEL User	**Valid**
New Transfer Arm Control	**Valid**
Change of CRD Pump Pressure Settlement Timing	**Valid**
Option Delay Time before Pin Up after Chuck Vacuum OFF in Spinner Module	**0 ms without speed controllers** **1200 ms with speed controllers**
Option Upper Limit of Spin Speed When Dispensing with IE NOZZLE *	**0 rpm**
Option Lower Limit of Spin Speed When Dispensing with IE NOZZLE *	**0 rpm**
Option Wafer Spin Speed Upper Limit at Bevel Rinse V2 Dispensing	**0 rpm**
Option Automatic Dispensing with RRC Nozzle after DFT	**Invalid**

* = Does not Exist on DRY or BARC tools

8. System Parameter

Others(cont)

Option Upper limit of Wafer Acceleration When Dispensing with IE NOZZLE *	**3000 rpm/sec**
Option Optimized Offset Transfer at Manual Transfer of Wafer Flow Recipe ******	**Valid**
Option Setting for Excluding Specified Module from Wafer Flow in Online Remote	**HOST**
Option Detection of Shared Arm Z-Axis Belt Break*****	**Valid**
Option Dispense Line Monitor ********	**Valid**
Option Pin Speed Selection for COT-Type Module	**High Speed**
Option Spinner System Module Detection of Belt Break Detection of Belt Break****	**Valid**
Option Margin Time at DEV Shared Arm Performance Improvement***	**7.0 sec**
Option Resist Dispensing Interval Verification for Dummy Dispense Process and Nozzle tip Wash	**Valid**
Option Standby time after dispense for PIR*	**0.5sec**
Option Standby time after dispense for SRS*	**0.5sec**
Option Estimated Disp. Press. Display (Pump/018)****	**Display**
Option Vent Exclusion Function for Shared Drain Line	**Valid**
Option Upper Limit of Wafer Spin Speed in XDR N2 Dispense Step *******	**1100 rpm**

* = Does not Exist on DRY or BARC tools
*** = Doesn't Exist for BARC Tools
****= Does not exist on CRD systems
*****= Requires CNP-0058i and SW Patch to show this parameter
****** = It is only present on tools with CD Optimizer installed.
******* = Only present on tools with XDR function
******** = Enabled PPM software tools

Wafer Collection

Wait Time for Wafer Collection from Exposure	**180000 msec**
Rejected Wafer Collected in:	**End Carrier**
Real-time Save Recovery Info	**Valid**

Cup Wash

Executing Cup Wash Alarm Issue	**Invalid**
Alarm Output during Duct Wash	**Valid**
Washing Nozzle Tip Alarm Issue	**Invalid**
Parallel Module Wash Setting	**VALID(All Spinners)**
Cup Wash Execution When Wafer Exists in Another Cup in Same Layer	**Not Execute Cup Wash**
Interlock against Unset Nozzle Tip Wash	**Warning and Stop**
Option Automatic Cup Wash Skip	**Valid(Alarm Off)**
Option Post-Cup-Wash Cooling Time	**0 sec**

Monitoring

Recipe Verification against Unset Temperature Offset and Chamber FB Fixed Temp	**Warning Setting**
Wafer Transfer pausing against Unset Temperature Offset and Chamber FB Fixed Temp	**Warning Setting**
Option Interlock Setting at Stranded Wafer Detection	**No Cycle Stop**
Option Temperature Change MAP Customization	**Valid***

* ONLY on BARC tools

Maintenance

Notify Time to Replace Chemical, etc.	**Invalid**
Option Consecutive Executions of Replacing Chemical Bottle and Cleaning Dispense information	**Valid**
Option Operation-Less RIA Alarms	**Valid (PURGE Class Only)**

Basic Transfer Control

PJ End Specification for Multiple PJs Execution	**PJ End**
Wafer Send OUT Stop due to Inspect,Measure Tool Error	**Execute**
Wafer Send OUT Control at Resist Temperature Change	**Valid**
Wafer Send OUT Control at Hot Plate Temperature Change	**Invalid**

8. System Parameter

Basic Transfer Control (cont)

Cascade Process for High Speed Temperature Change	**Valid**
Upper Limit of Wafer Stay Time in Exposure	**18000 msec**
FIMS Door in Down Position Check	**Valid**
Control of Wafer Send Out to Exposure System	**Valid**
Monitoring Time Setting for Transfer Delay after Exposure System Trouble	**0 sec**
Wafer Transfer during Pump Reloading	**Valid**

Special Transfer Control

Wafer Transfer Excluding Specified Module	**Invalid**
TRANS Arm Init Wafer Count	**0**
TRANS Arm ALM Output Wafer Count	**0**
Cup Wash Cascade	**Valid**
WISD Bypass Control to Maintain Equipment Productivity	**Invalid**
Step Count Available for Sending PJ_CREATE to IM	**5 step**
Option Parallel Flow Control	**Execute**
Option Skip EIF From Trouble Wafer in Immersion System	**Valid, without shortcut***
Option Prime Cascade Mode (Coating Flow)	**Prioritize Throughput**
Option Prime Cascade Mode (Development Flow)	**Prioritize Throughput**
Option Specifying Exclusion Alarm	**Not Execute**

*= NOT USED FOR BARC CONFIGURATION

Bare-Si Thickness

Bare-Si Thickness Unit	**nm**
Option Base Barometric Pressure	*** hPa**

*** Portland / Ireland: 1010.00hPa**
*** Phoenix: 970.00hPa**
*** Albuquerque: 840.00hPa**
*** Israel: 1000.00hPa**

Equipment State Management

The "PAST log Output" function	**Invalid**

Exposure Interface

Exposure Maker	**Tool Specific***
Exposure Type	**Tool Specific****
Exposure Carrier End Setting	**Invalid**
Exposure in Local Interlock Setting	**Valid**
Exposure APR Setting	***
EIF IN READY Wait Time	**10000 msec**
EIF Initialize Condition	**Confirm ARM-signal**
Exposure in Near Ready Setting	**Invalid**
Option Exposure Lot End Output	**Execute**
Option Linked Litho Application [Not Present for BARC]	**Valid**
Option Linked Litho Alarm Auto Recovery [Not Present for BARC]	**Valid**
Option Linked Litho Alarm Auto Timer [Not Present for BARC]	**1000 msec**
Option Linked Litho No Wafer Exposure Lot End [Not Present for BARC]	**Execute**

*** Select "Nikon" for [TNE/TNG/TNS/TNR/TNQ/TNU/TNK] or "ASML" for [TAQ/TAR/TAS/TAU/TBL/TBM] or NONE for BARC, linked STP dependant.**
**** ASML: TYPE 2, Nikon: TYPE 4, BARC: Type 1**
***** Valid for ASML links, Invalid for others**

Dummy Dispense

Interlock with Dummy Dispense Recipe Unregistered	**Valid**
Prevention of Chemical Stream Crossing during Dummy Dispense Process	**Valid**
Option Change of Periodic Dummy Dispense Process Timing with DFT Disable	**Invalid**
Option Monitoring Time of Wafer Transfer Stop for Interval Dummy dispense Execution during PJ	**10**
Option Start Time of Periodic Resist Return Operation during Wafer Transfer Stop *	**300 sec**

* IR function valid tool

9. Equipment State Parameter

Wafer in Carrier Send OUT/IN Order Definition Group

Wafer in Carrier Send OUT/IN Order Information

Stage Type	**Uni-Cassette**
Send OUT Order/Send IN Order	**Bottom**

Wafer in Carrier Send OUT/IN Order Information

Stage Type	**Pickup Stage**
Send OUT Order/Send IN Order	**Top**

10. Adjustment Tool Parameter

Transfer Arm No. 1-0 Calibration Data[1-0]

ArmBlockNo	**1**
ArmModuleNo	**0**

Tool Specific

DataId	**Tool Specific**
CalibModuleBlockNo	**1**
CalibModuleModuleNo	**1**
ToolSerialNo	**Tool Specific**

ForkPosition

ForkNo	**1**
PositionX	**Not Input**
PositionY	**Not Input**
PositionZ	**Not Input**
PositionTh	**Not Input**

Transfer Arm No. 2-0 Calibration Data[2-0]

ArmBlockNo	**2**
ArmModuleNo	**0**

Tool Specific

DataId	**Tool Specific**
CalibModuleBlockNo	**2**
CalibModuleModuleNo	**16**
ToolSerialNo	**Tool Specific**

ForkPosition

ForkNo	**1**
PositionX	**Not Input**
PositionY	**Not Input**
PositionZ	**Not Input**
PositionTh	**Not Input**

Transfer Arm No. 3-0 Calibration Data[3-0]

ArmBlockNo	**3**
ArmModuleNo	**0**

Tool Specific

DataId	**Tool Specific**
CalibModuleBlockNo	**3**
CalibModuleModuleNo	**1**
ToolSerialNo	**Tool Specific**

ForkPosition[0]

ForkNo	**1**
PositionX	**Tool Specific**
PositionY	**Tool Specific**
PositionZ	**Tool Specific**
PositionTh	**0**

ForkPosition[1]

ForkNo	**2**
PositionX	**Tool Specific**
PositionY	**Tool Specific**
PositionZ	**Tool Specific**
PositionTh	**0**

10. Adjustment Tool Parameter

Transfer Arm No. 4-0 Calibration Data[4-0]

ArmBlockNo	**4**
ArmModuleNo	**0**

Tool Specific	Resist Tracks	BARC Tracks	TBL Tracks
DataId	**Tool Specific**	**Tool Specific**	**Tool Specific**
CalibModuleBlockNo	**4**	**4**	**2**
CalibModuleModuleNo	**1**	**42**	**24**
ToolSerialNo	**Tool Specific**	**Tool Specific**	**Tool Specific**

ForkPosition[0] for Resist Tracks

ForkNo	**1**
PositionX	**Tool Specific**
PositionY	**Tool Specific**
PositionZ	**Tool Specific**
PositionTh	**0**

ForkPosition[1] for Resist Tracks

ForkNo	**2**
PositionX	**Tool Specific**
PositionY	**Tool Specific**
PositionZ	**Tool Specific**
PositionTh	**0**

ForkPosition[0] for TBL and BARC Tracks

ForkNo	**1**
PositionX	**Tool Specific**
PositionY	**249865**
PositionZ	**Tool Specific**
PositionTh	**Tool Specific**

ForkPosition[1] for TBL and BARC Tracks

ForkNo	**2**
PositionX	**Tool Specific**
PositionY	**249865**
PositionZ	**Tool Specific**
PositionTh	**Tool Specific**

Transfer Arm No. 5-0 Calibration Data[5-0]

ArmBlockNo	**5**
ArmModuleNo	**0**

Tool Specific

DataId	**Tool Specific**
CalibModuleBlockNo	**5**
CalibModuleModuleNo	**1**
ToolSerialNo	**Tool Specific**

ForkPosition[0]

ForkNo	**1**
PositionX	**Tool Specific**
PositionY	**Tool Specific**
PositionZ	**Tool Specific**
PositionTh	**0**

ForkPosition[1]

ForkNo	**2**
PositionX	**Tool Specific**
PositionY	**Tool Specific**
PositionZ	**Tool Specific**
PositionTh	**0**

Transfer Arm No. 6-0 Calibration Data[6-0]

ArmBlockNo	**6**
ArmModuleNo	**0**

Tool Specific

DataId	**Tool Specific**
CalibModuleBlockNo	**6**
CalibModuleModuleNo	**1**
ToolSerialNo	**Tool Specific**

ForkPosition[0]

ForkNo	**1**
PositionX	**Tool Specific**
PositionY	**Tool Specific**
PositionZ	**Tool Specific**
PositionTh	**0**

ForkPosition[1]

ForkNo	**2**
PositionX	**Tool Specific**
PositionY	**Tool Specific**
PositionZ	**Tool Specific**
PositionTh	**0**

10. Adjustment Tool Parameter

Transfer Arm No. 7-0 Calibration Data[7-0]

ArmBlockNo	**7**
ArmModuleNo	**0**

Tool Specific

DataId	**Tool Specific**
CalibModuleBlockNo	**7**
CalibModuleModuleNo	**46**
ToolSerialNo	**Tool Specific**

ForkPosition

ForkNo	**1**
PositionX	**Not Input**
PositionY	**Not Input**
PositionZ	**Not Input**
PositionTh	**Not Input**

Transfer Arm No. 8-0 (DRY/Immersion) Calibration Data[8-0]

ArmBlockNo	**8**
ArmModuleNo	**0**

Tool Specific

DataId	**Tool Specific**
CalibModuleBlockNo	**Tool Specific**
CalibModuleModuleNo	**Tool Specific**
ToolSerialNo	**Tool Specific**

ForkPosition[0]

ForkNo	**1**
PositionX	**Tool Specific**
PositionY	**Not Input**
PositionZ	**Tool Specific**
PositionTh	**Tool Specific**

ForkPosition[1]

ForkNo	**2**
PositionX	**Tool Specific**
PositionY	**Not Input**
PositionZ	**Tool Specific**
PositionTh	**Tool Specific**

Transfer Arm No. 9-0 (Immersion) Calibration Data[9-0]

ArmBlockNo	**9**
ArmModuleNo	**0**

Tool Specific

DataId	**Tool Specific**
CalibModuleBlockNo	**Tool Specific**
CalibModuleModuleNo	**Tool Specific**
ToolSerialNo	**Tool Specific**

ForkPosition[0]

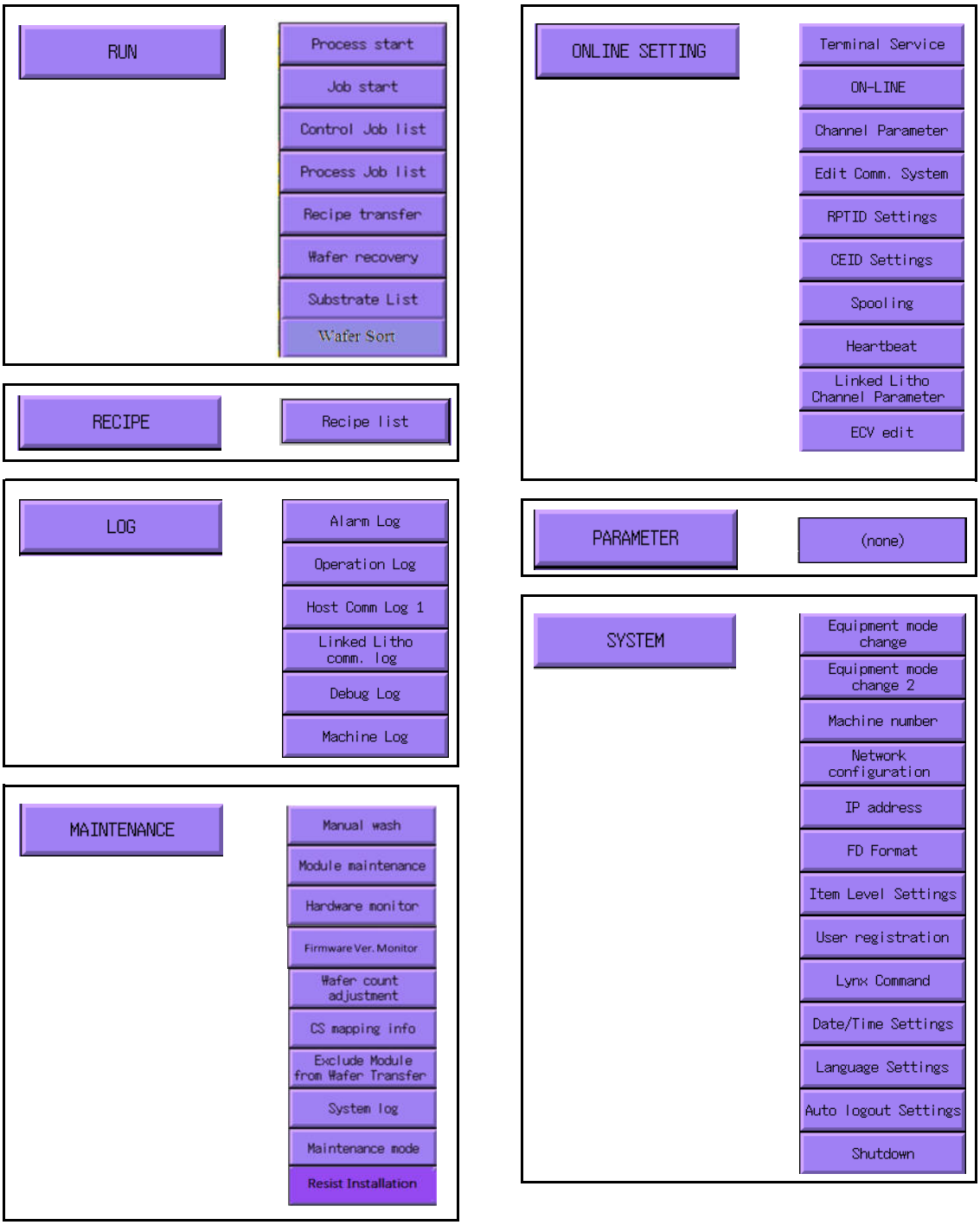
ForkNo	**1**
PositionX	**Tool Specific**
PositionY	**Tool Specific**
PositionZ	**Tool Specific**
PositionTh	**Tool Specific**

ForkPosition[1]

ForkNo	**2**
PositionX	**Tool Specific**
PositionY	**Tool Specific**
PositionZ	**Tool Specific**
PositionTh	**Tool Specific**

11. EC Display Overview

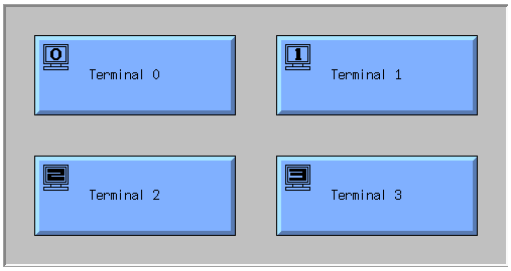
Screen Tree



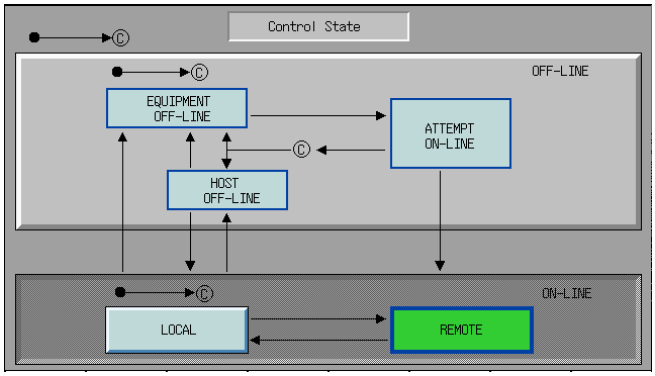
* Settings are available on tracks linked to scanners.

12. EC ON-LINE Setting

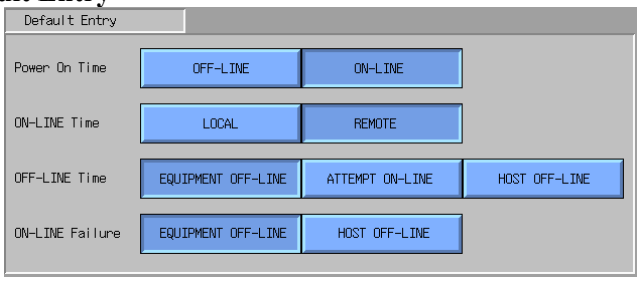
Terminal service



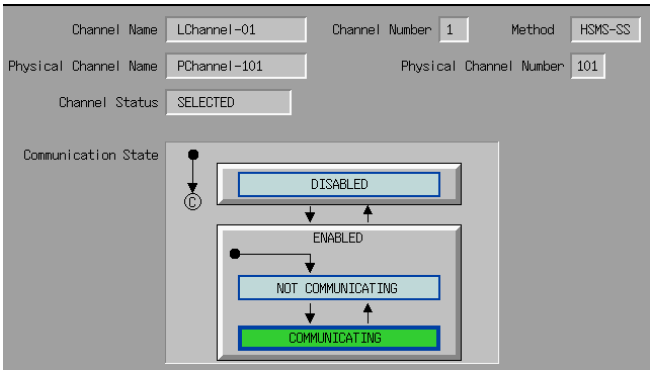
ON-LINE



Default Entry

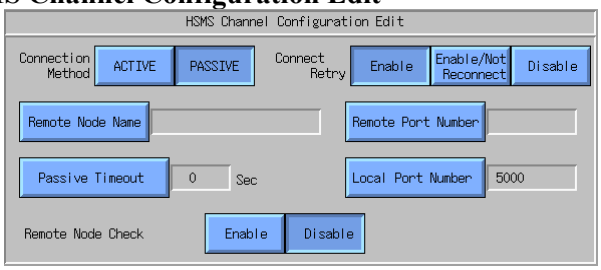


Channel Parameter

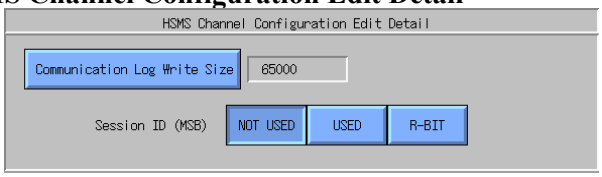


12. EC ON-LINE Setting

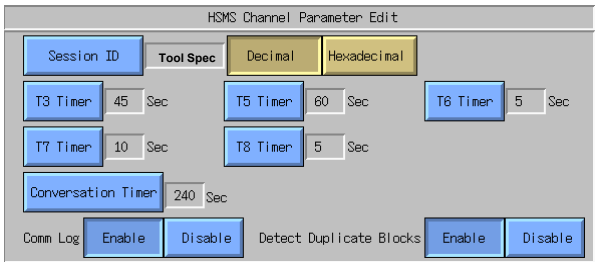
HSMS Channel Configuration Edit



HSMS Channel Configuration Edit Detail

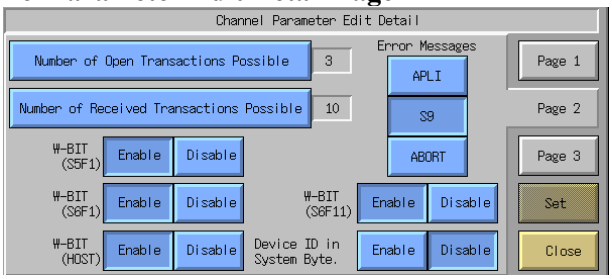


HSMS Channel Parameter Edit



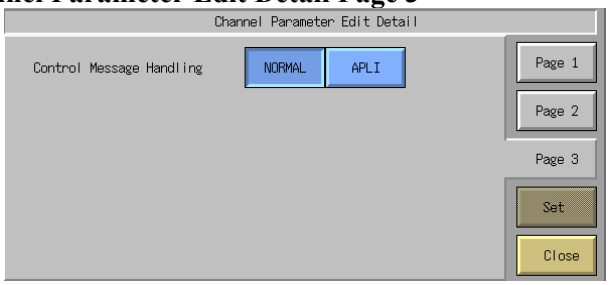
Channel Parameter Edit Detail Page 1

Channel Parameter Edit Detail Page 2

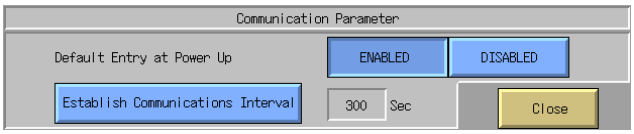


12. EC ON-LINE Setting

Channel Parameter Edit Detail Page 3

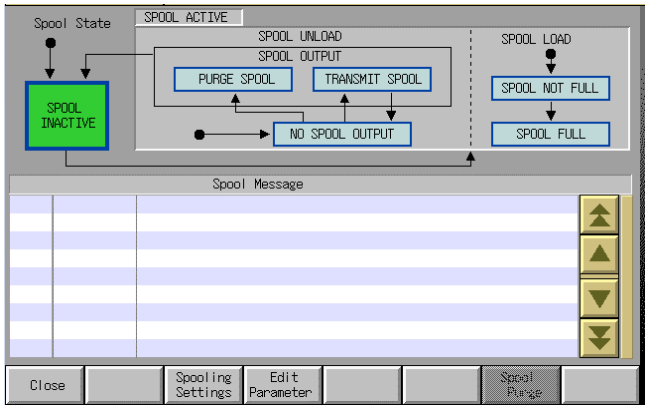


Communication Parameter

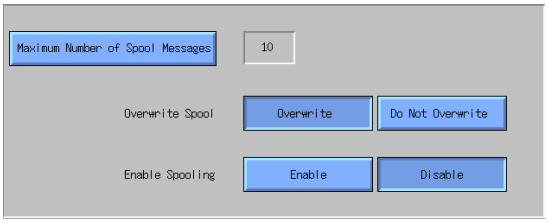


Spooling Setting

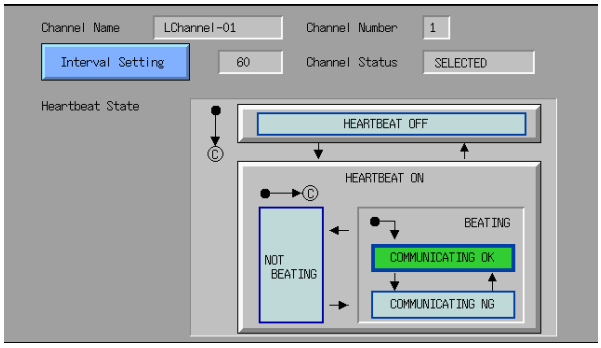
HOME



Edit Parameter



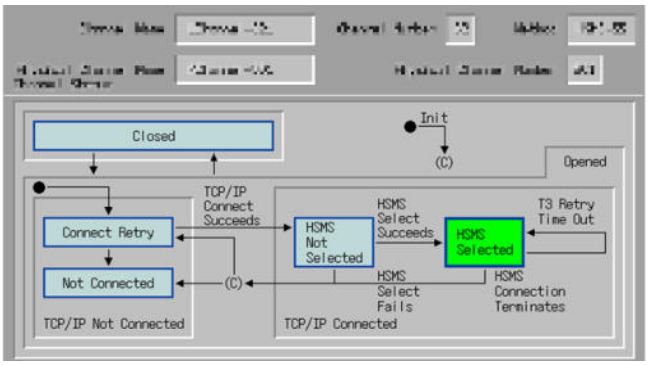
Heartbeat



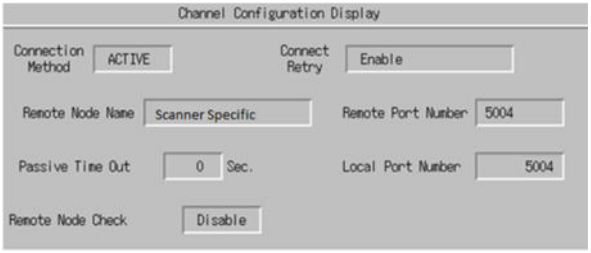
12. EC ON-LINE Setting

Linked Litho Channel Parameter*

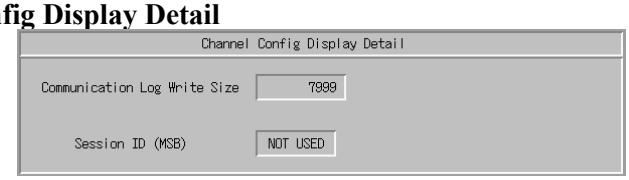
*settings are available only on tracks linked to scanners.



Config Display

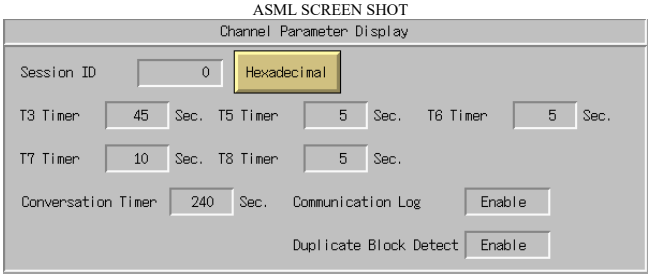


Config Display Detail

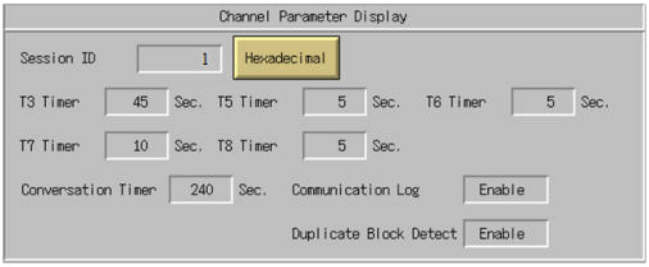


Parameter Display

ASML SCREEN SHOT



NIKON SCREEN SHOT

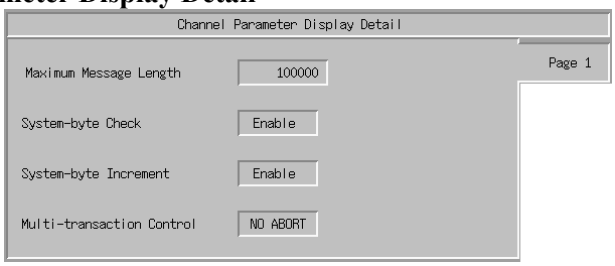


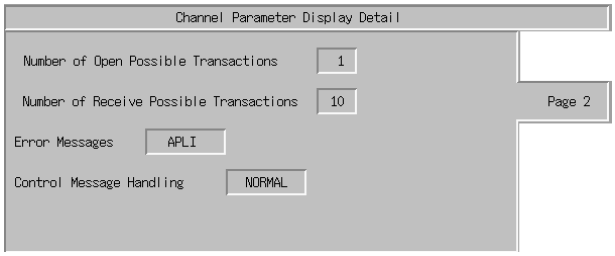
12. EC ON-LINE Setting

Linked Litho Channel Parameter *

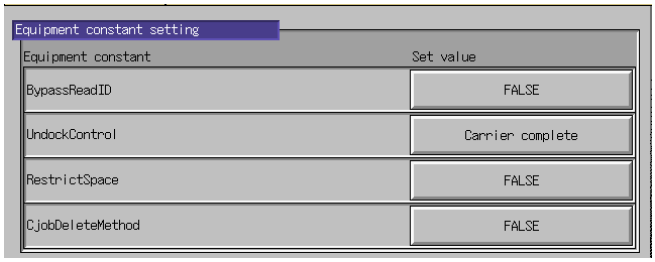
*settings are available only on tracks linked to scanners.

Parameter Display Detail



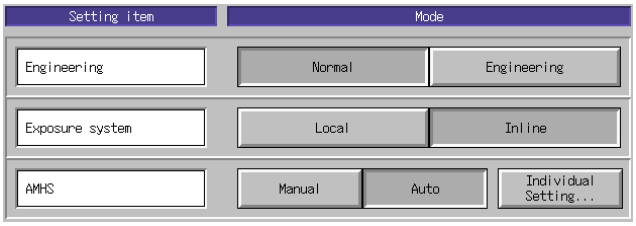


ECV edit



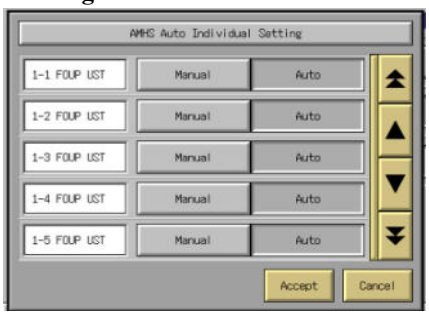
13. EC SYSTEM Setting

Equipment mode change

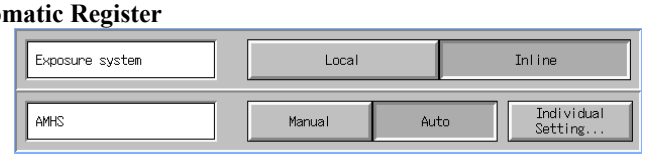


*LOCAL For BARC

Individual Setting

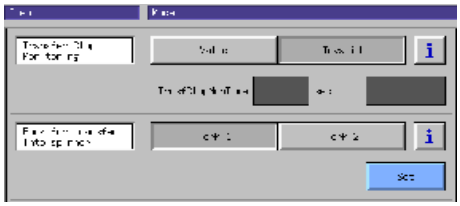


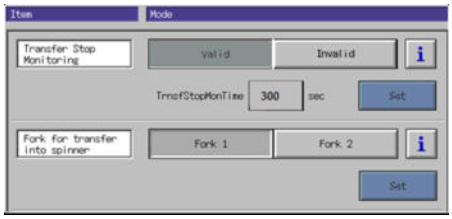
Automatic Register



*LOCAL For BARC

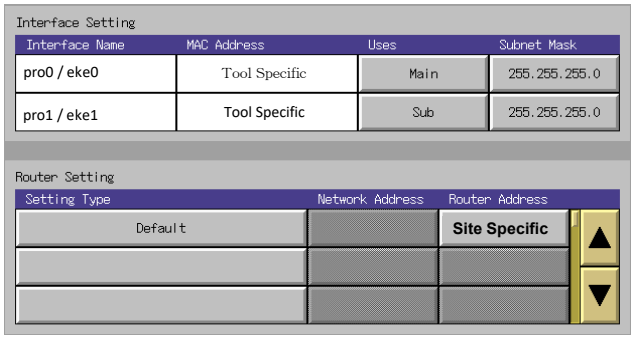
Equipment mode change 2





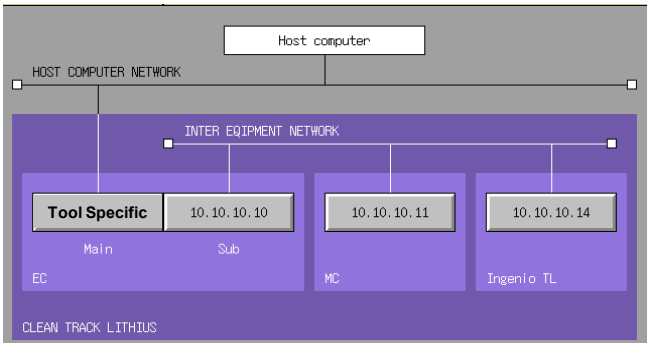
FOR BARC

Network configuration



13. EC SYSTEM Setting

IP address



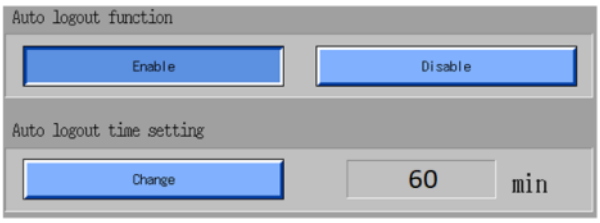
13. EC SYSTEM Setting

Item Level Settings

Group Menu	Item Menu	Item Level
RUN	Initialize	Maintainer *
	Process start	Operator
	Job start	Operator
	Control Job list	Operator
	Process Job list	Operator
	Recipe transfer	Operator
	Wafer recovery	Maintainer
	Substrate List	Operator
	Aging Start	Maintainer **
	Wafer Sort	Service
RECIPE	Recipe list	Operator
LOG	Alarm Log	Operator
	Operation Log	User service
	Host Comm Log 1	User service
	Linked Litho Log	User service ***
	Debug Log	User service
	Machine Log	User service
MAINTENANCE	Manual wash	Maintainer
	Module maintenance	Maintainer
	Hardware monitor	Operator
	Firmware Ver. Monitor	User Service
	Wafer count adjustment	Maintainer
	CS mapping info	Maintainer
	System log	User service
	Exclude Module	User Service
	Maintenance mode	Maintainer
	Resist Installation Assistance****	Maintainer
ONLINE SETTING	Terminal Service	Operator
	ON-LINE	Operator
	Channel Parameter	Operator
	Edit Comm. System	User service
	RPTID Settings	User service
	CEID Settings	User service
	Spooling	User service
	Heartbeat	Service
	Linked Litho Channel Parameter ***	User service ***
	ECV edit	User service
SYSTEM	Equipment mode change	Maintainer
	Equipment mode change 2	Service
	Machine number	User service
	Network configuration	User service
	IP address	User service
	FD Format	Operator
	Item Level Settings	Service
	User registration	Service
	Lynx Command	User service
	Date/Time Settings	User service
	Language Settings	User service
	Auto logout Settings	User service
	Shutdown	User service

*** Must be audited prior to completion of the track initialization.**
**** Must be audited with track in Engineering mode.**
***** For Linked Litho VALID system only.**
****** For ACRD systems ONLY**

Auto logout Settings

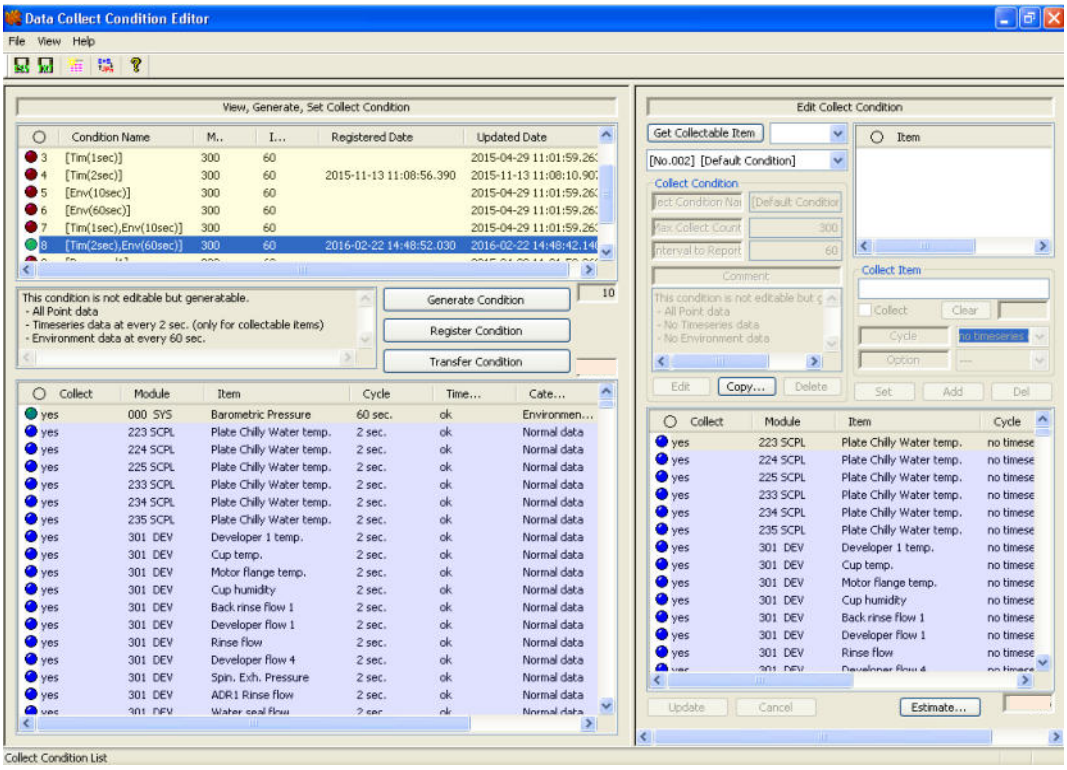


14. Data Collect Condition Editor

Data Collect Condition Editor can be found in the Ingenio within the Start\Lithius Clean Track directory

Verify that Data Collect Condition Editor has been set up with the following condition name generated, registered, and transferred

Condition Name: [Time (2sec),Env(60sec)]



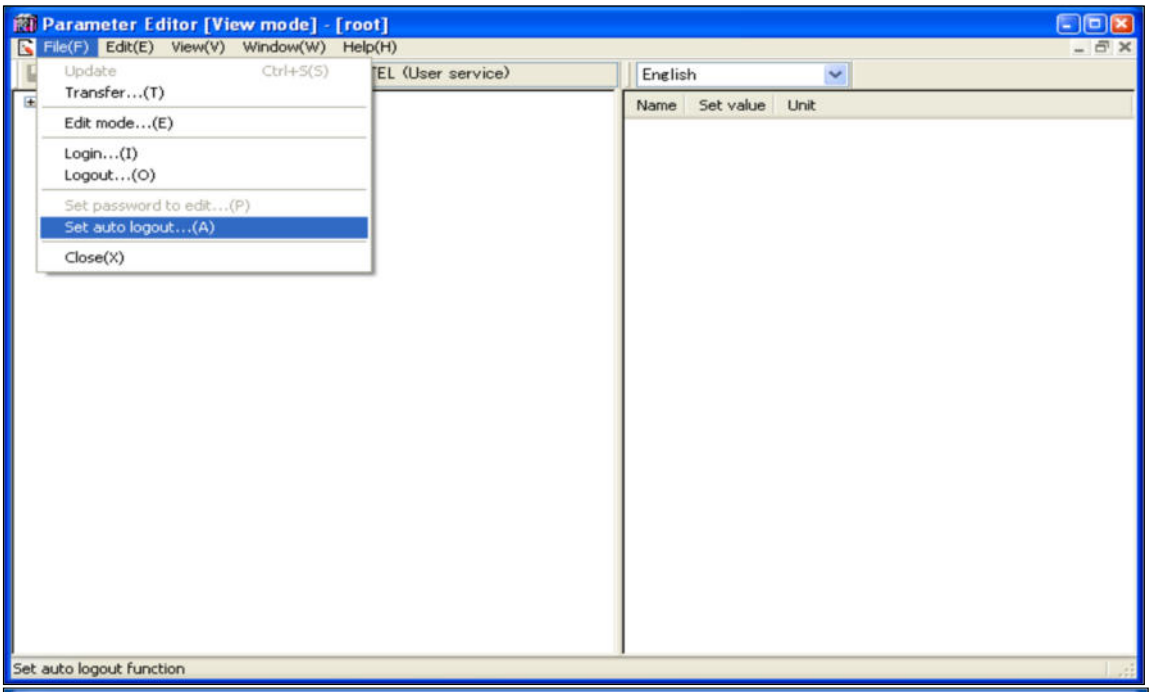
15. Parameter Editor

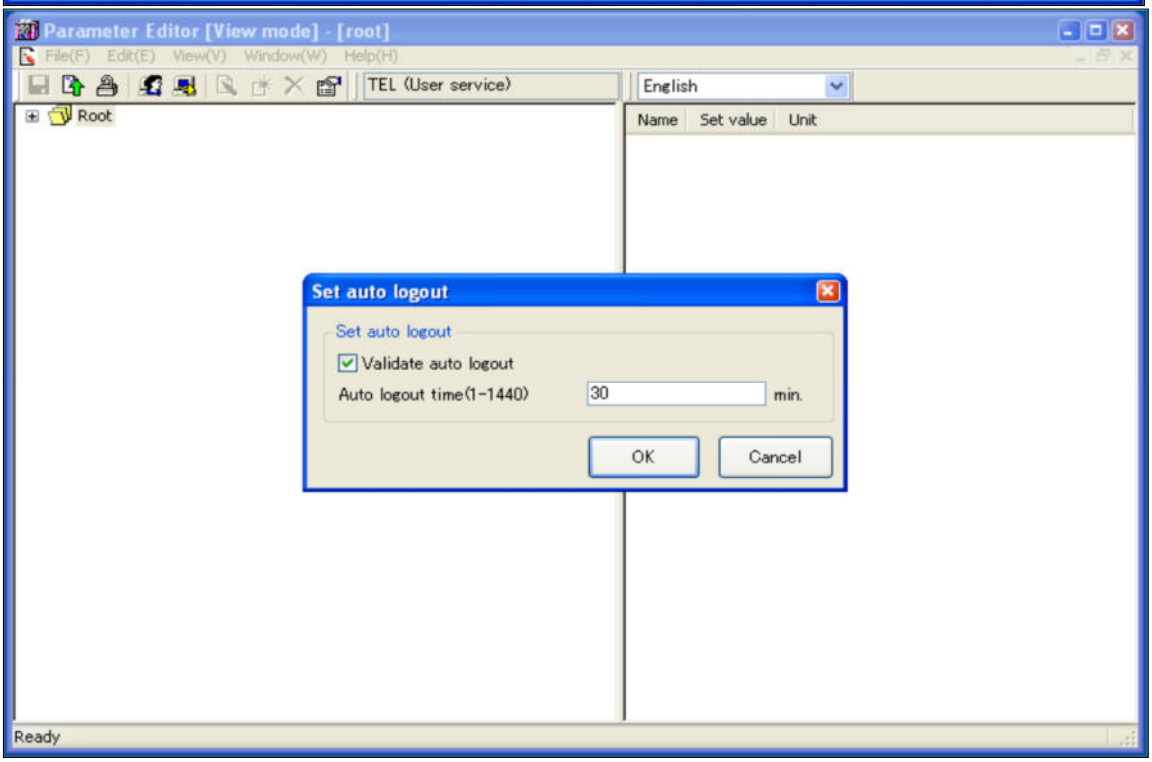
(Parameter Editor can be found in the Ingenio within the Start\LITHIUS ProV Clean Track directory)

Auto logout setting

Validate Auto Logout	**Validate**
Auto Logout Time	**30 min.**

*Location of setting is shown in the picture as below.





Hardware FPD Revision History (1/5)

Date	Rev.	Approval		Location	Old	New
		INTEL	TEL			
3/25/2014	1.00	K. Proctor	Sam. S	Original Release	N/A	100.0.53.6 MCr287
05/28/2014	1.01	K. Proctor	Sam. S	Section 2.SYSTEM(FAB) - Updated DEV and NTD Exhaust Supply Description	N/A	Update to config Type description
				Section 3.SYSTEM(SUB-FAB) - Update to LNR VAC setting	-45kPa	-65kPa
				Section 3.SYSTEM(SUB-FAB) - Update to LNR VAC U/L Limit settings	-29.0 -99.9	-49.0 -99.9
				Section 3.SYSTEM(SUB-FAB) - Update DEV Sol 2 source location	DEV Cabinet	COT Cabinet
				Section 3.SYSTEM(SUB-FAB) - Update DEV Cabinet to include new DIW supply pressure if C.V.P is installed	N/A	Added
				Section 3.SYSTEM(SUB-FAB) - Update DEV Cabinet to include C.V.P pressure settings	N/A	Added
				Section 4.DEV - Addition on new INTEL Cup Height range spec.	N/A	0.2mm from the 3 adj pts
				Section 4.DEV - Addition on new INTEL Cup Height range spec.	N/A	0.5mm from all 6 measurement pts
				Section 4.DEV - Update tolerance for NTD INTEL cup height adjustments	2.3 ~ 3.3	2.6 ~ 3.0
				Section 5.COT TCT BCT - Addition on new INTEL Cup Height range spec.	N/A	0.2mm from the 3 adj pts
				Section 5.COT TCT BCT - Addition on new INTEL Cup Height range spec.	N/A	0.5mm from all 6 measurement pts
				Section 5.COT TCT BCT - Update tolerance for BCT INTEL cup height adjustments	2.3 ~ 3.3	2.6 ~ 3.0
				Section 5.COT TCT BCT - Update tolerance for COT INTEL cup height adjustments	2.3 ~ 3.3	2.6 ~ 3.0
				Section 5.COT TCT BCT - Update tolerance for TCT INTEL cup height adjustments	2.0 ~ 3.0	2.3 to 2.7
				Section: 6.PIR SRS BST - Update tolerance for NTD INTEL cup height adjustments	2.3 ~ 3.3	2.6 ~ 3.0
				Section: 6.PIR SRS BST - Addition on new INTEL Cup Height range spec.	N/A	0.2mm from the 3 adj pts
				Section: 6.PIR SRS BST - Addition on new INTEL Cup Height range spec.	N/A	0.5mm from all 6 measurement pts
				Section: 6.PIR SRS BST - Addition of the BST Local Exhaust setting	N/A	> -13
				Section 2.SYSTEM(FAB) - Updated the Chem L Exhaust Range	50 to 250	50 to 300
				Section: 7 OVEN - Update to remarks for all ovens with moving chambers - Chamber-R/L OPEN / CLOSED	Sub-Op can see both times for L/R. Accurate UP/DOWN, review times and set speed accordingly	L/R Must Match
08/07/2014	1.02	K. Proctor	P. Ito	Section 2. SYSTEM(FAB) - CSB - Load Port Air Supply Setting - Remarks	ONLY if Split LP CT-PCP-13-0007 is complete	ONLY if Split LP CT-PCP-13-0007 Rev is complete
				Section 2. SYSTEM(FAB) - PRB - Spinner Wind Pressure-L - Tool Setting	175	200
				Section 2. SYSTEM(FAB) - PRB - Spinner Wind Pressure-R - Tool Setting	175	200
				Section 2. SYSTEM(FAB) - PRB - Spinner Wind Pressure-L *	N/A	Added *=TAX and TNU ONLY
				Section 2. SYSTEM(FAB) - PRB - Spinner Wind Pressure-R *	N/A	Added *=TAX and TNU ONLY
				Section 2. SYSTEM(FAB) - PRB - Spinner Wind Pressure-L * - Remarks	Dual Resist Arm COT Tools	Removed comments
				Section 2. SYSTEM(FAB) - PRB - Spinner Wind Pressure-R * - Remarks	Dual Resist Arm COT Tools	Removed comments
				Section 2. SYSTEM(FAB) - IPRB** - Positive Pressure (PIR/SRS) - TEL Std	PIR/SRS<=PRAi	PIR/SRS>=PRAi
				Section 3. SYSTEM(SUB-FAB) - Constant Pressure Valves - DEV Rinse Nozzle - Tolerance	0.15 ~ 0.17	0.25 ~ 0.27
				Section 3. SYSTEM(SUB-FAB) - Constant Pressure Valves - Title for Description of setting	N/A	Matched title between FPD and Tool
				Section 5. COT/TCT/BCT - COT- Middle Cup Height - Tool Setting	2.8	3.2
				Section 5. COT/TCT/BCT - COT- Middle Cup Height - Tolerance	2.6 ~ 3.0	2.8 ~ 3.6
				Section 5. COT/TCT/BCT - COT- Middle Cup Height - Remarks	COT Spinner uses PV Cup [Torque 75cn*m] Check current Torque Doc Direct reading will be 2.0mm from the TOP of the wafer to the top of the middle cup	COT Spinner uses PV Cup [Torque 75cn*m] Check current Torque D Direct reading will be 2.4mm from the TO of the wafer to the top of the middle cu
				Section 5. COT/TCT/BCT - COT/BCT - Resist / RRC Center Nozzle Height - Remarks	Measure from the top of the resist bath to the bottom of the resist nozzle base.	Measured from top of wafer surface on chuck
				Section 5. COT/TCT/BCT - COT/BCT - Resist Nozzle Height Home Position - Remarks	Set by using measuring scale	Set by using measuring scale Measure fro the top of the resist bath to the bottom of resist nozzle base.
				Section 6. PIR/SRS/BST - BST+	N/A	Added
				Section 7. OVEN - TRS/SBU/RSM	N/A	Merge TRS and SBU section, and add RS
				Section 9. Sensor Setting - CRD - RESIST Pump Purge - SPED	2.5*	2.5
				Section 9. Sensor Setting - CRD - RESIST Pump Purge - Comment	* TKL setting is 5.0	Removed comments
				Section 9. Sensor Setting - CRD - AMC N2 Purge - SPED	2.5*	2.5
				Section 9. Sensor Setting - CRD - AMC N2 Purge - Comment	* TKL setting is 5.0	Removed comments
				Section 9. Sensor Setting - BST+ - BST Back Side Air Nozzle	N/A	Added
				Section 9. Sensor Setting - BST+ - BST Wafer Edge Air Nozzle	N/A	Added
08/13/2014	1.03	C. Allen	P. Ito	Section 4. DEV - DEV/NTD - Knife Edge Height - Tool Setting	1.0	-1.0
				Section 4. DEV - DEV/NTD - Knife Edge Height - Tolerance	0.8 to 1.2	-0.8 to -1.2
				Section 4. DEV - DEV/NTD - Knife Edge Height - Remarks	3 points of measurement, gauge doesn't move during Cup UP/DOWN	3 points of measurement, gauge doesn' move during Cup UP/DOWN[Torque 75cn*m] Check current Torque DocUs Digital cup height JIG
				Section 5. COT/TCT/BCT - COT - Middle Cup Height - Remarks	COT Spinner uses PV Cup[Torque 75cn*m] Check current Torque DocDirect reading will be 2.4mm from the TOP of the wafer to the top of the middle cup.	COT Spinner uses PV Cup[Torque 75cn* Check current Torque DocDirect readin will be 2.4mm from the TOP of the wafe the top of the middle cup. Use Digital cup height JIG
				Section 5. COT/TCT/BCT - BCT TAX ONLY - Middle Cup Height - Remarks	COT Spinner uses PV Cup[Torque 75cn*m] Check current Torque DocDirect reading will be 2.0mm from the TOP of the wafer to the top of the middle cup.	COT Spinner uses PV Cup[Torque 75cn* Check current Torque DocDirect readin will be 2.0mm from the TOP of the wafe the top of the middle cup. Use Digital cup height JIG
				Section 5. COT/TCT/BCT - BCT BARC ONLY - Middle Cup Height - Tool Setting	2.5	-2.5
				Section 5. COT/TCT/BCT - BCT BARC ONLY - Middle Cup Height - Tolerance	2.3 to 2.7	-2.3 to -2.7
				Section 5. COT/TCT/BCT - BCT BARC ONLY - Middle Cup Height - Remarks	BCT Spinner uses TCT Cup[Torque 75cn*m] Check current Torque DocMeasured from the bottom of the wafer to the top of the INNER cup. Use Digital cup height JIG	BCT Spinner uses TCT Cup[Torque 75cn*m] Check current Torque DocMeasured from the bottom of the wa to the top of the INNER cup.
				Section 6. PIR/SRS/BST - PIR/SRS - Knife Edge Height - Tool Setting	2.5	-2.5
				Section 6. PIR/SRS/BST - PIR/SRS - Knife Edge Height - Tolerance	2.3 ~ 2.7	-2.3 ~ -2.7
				Section 6. PIR/SRS/BST - PIR/SRS - Knife Edge Height - Remarks	Measured @ 3 points Set by using PRO-V tool	Measured @ 3 points Set by using PRO- tool[Torque 75cn*m] Check current Torq DocMeasured from the bottom of the wa to the top of the INNER cup Use Digital c height JIG

Hardware FPD Revision History (2/5)

Date	Rev.	Approval		Location	Old	New
		INTEL	TEL			
12/11/2014	1.04	K. Proctor	P. Ito	Section 4. DEV - NTD - Middle Cup Height - Remarks	NTD with IC cup	Use Digital cup height JIGNTD with IC cup[Torque 75cn*m] Check current Torq Doc
				Section 5. COT/TCT/BCT - BCT TAX ONLY - Middle Cup Height - Remarks	-	BCT Spinner for TAX tools uses PV Cu
				Section 5. COT/TCT/BCT - BCT BARC ONLY - Middle Cup Height - Remarks	-	BCT Spinner for BARC tools uses TCT C
				Section 5. COT/TCT/BCT - COT/BCT - Resist Nozzle Height Home Position - Tool Setting	4.5	4.5 * / 6.5
				Section 5. COT/TCT/BCT - COT/BCT - Resist Nozzle Height Home Position - Tolerance	4.0 ~ 5.0	4.0 ~ 5.0 * /6.0 ~ 7.0
				Section 5. COT/TCT/BCT - COT/BCT - Resist Nozzle Height Home Position - Remarks	Set by using measuring scale Measure from the topo the resist bath to the bottom of the resist nozzle base	Set by using measuring scale Measure fro the topo the resist bath to the bottom of t resist nozzlebase.* TNE tools
				Section 7. OVEN - CPRP/CPHP/CHCH/CGCH/CSWP - Module	N/A	Added "CPHP"
				Section 7. OVEN - CPRP/CPHP/CHCH/CGCH/CSWP - CGCH/CHCH - Module Exhaust Setting (E9) - Tool Setting	265	550
				Section 7. OVEN - CPRP/CPHP/CHCH/CGCH/CSWP - CGCH/CHCH - Module Exhaust Setting (E9) - Tolerance	245 to 275	520 - 580
				Section 7. OVEN - CPRP/CPHP/CHCH/CGCH/CSWP - CGCH/CHCH - Module EXH U/L Setting (Nagano Keiki) (E9) - Tool Setting	305	580
				Section 7. OVEN - CPRP/CPHP/CHCH/CGCH/CSWP - CGCH/CHCH - Module EXH L/L Setting (Nagano Keiki) (E9) - Tool Setting	225	520
				Section 7. OVEN - CPRP/CPHP/CHCH/CGCH/CSWP - CGCH/CHCH - Module Exhaust Setting (E16) - Tool Setting	210	500
				Section 7. OVEN - CPRP/CPHP/CHCH/CGCH/CSWP - CGCH/CHCH - Module Exhaust Setting (E16) - Tolerance	190 to 230	470 - 530
				Section 7. OVEN - CPRP/CPHP/CHCH/CGCH/CSWP - CGCH/CHCH - Module EXH U/L Setting (Nagano Keiki) (E16) - Tool Setting	250	530
				Section 7. OVEN - CPRP/CPHP/CHCH/CGCH/CSWP - CGCH/CHCH - Module EXH L/L Setting (Nagano Keiki) (E16) - Tool Setting	170	470
				Section 7. OVEN - CPRP/CPHP/CHCH/CGCH/CSWP - CGCH/CHCH - Individual Chamber Exhaust Setting - Tool Setting	9.4	19.0
				Section 7. OVEN - CPRP/CPHP/CHCH/CGCH/CSWP - CGCH/CHCH - Individual Chamber Exhaust Setting - Tolerance	7.4 - 11.3	16.0 - 22.0
				Section 7. OVEN - CPRP/CPHP/CHCH/CGCH/CSWP - CGCH/CHCH - Individual Chamber Exhaust U/L Setting - Tool Setting	11.3	22.0
				Section 7. OVEN - CPRP/CPHP/CHCH/CGCH/CSWP - CGCH/CHCH - Individual Chamber Exhaust L/L Setting - Tool Setting	7.4	16.0
3/20/2015	1.05	K. Proctor	P. Ito	Section 3. SYSTEM (SUB-FAB) - Constant Pressure Valves - External - DEV Cabinet - MGP1 SUB DIW - Tolerance	0.15 ~ 0.17	0.20 ~ 0.22
				Section 3. SYSTEM (SUB-FAB) - Constant Pressure Valves - External - DEV Cabinet - SRS Rinse / Back Rinse - Tolerance	0.15 ~ 0.17	0.20 ~ 0.22
				Section 3. SYSTEM (SUB-FAB) - Constant Pressure Valves - External - DEV Cabinet - PIR Rinse / Back Rinse - Tolerance	0.15 ~ 0.17	0.20 ~ 0.22
				Section 3. SYSTEM (SUB-FAB) - Chemical Cabinet Exhaust Setting for all Configurations - TBE	N/A	Added
				Section 4. DEV - PRB - DEV/NTD - 3-PIN Up - Tool Setting	1.5	N/A*
				Section 4. DEV - PRB - DEV/NTD - 3-PIN Up - Remarks	Motor Driven	*Controlled by motor. Nominal timing 1.5s.
				Section 4. DEV - PRB - DEV/NTD - 3-PIN Down - Tool Setting	1.5	N/A*
				Section 4. DEV - PRB - DEV/NTD - 3-PIN Down - Remarks	Motor Driven	*Controlled by motor. Nominal timing 1.5s.
				Section 5. COT/TCT/BCT - PRB - COT/BCT - 3-PIN Up - Tool Setting	1.5	N/A*
				Section 5. COT/TCT/BCT - PRB - COT/BCT - 3-PIN Up - Remarks	Motor Driven	*Controlled by motor. Nominal timing 1.0s.
				Section 5. COT/TCT/BCT - PRB - COT/BCT - 3-PIN Down - Tool Setting	1.5	N/A*
				Section 5. COT/TCT/BCT - PRB - COT/BCT - 3-PIN Down - Remarks	Motor Driven	*Controlled by motor. Nominal timing 1.0s.
				Section 5. COT/TCT/BCT - Module	BCT BARC ONLY	BCT BARC TCT Shrink
				Section 5. COT/TCT/BCT - COT/BCT - Resist Nozzle Height Home Position - Tool Setting	4.5 * / 6.5	6.5
				Section 5. COT/TCT/BCT - COT/BCT - Resist Nozzle Height Home Position - Tolerance	4.0 ~ 5.0 * /6.0 ~ 7.0	6.0 ~ 7.0
				Section 6. PIR**/SRS**/BST*** - PRB - PIR/SRS - 3-PIN Up - Tool Setting	N/A	Added
				Section 6. PIR**/SRS**/BST*** - PRB - PIR/SRS - 3-PIN Up - Remarks	N/A	Added
5/6/2015	2.00	K.Proctor	P. Ito	Section 1. Overview (Configuration)	N/A	Added [TSH] / [TSL] / [TAQSl] / [TAQS / [TAQ Sl/Sh Hybrid] Configuration
				Section 2. SYSTEM(FAB) - PRB - TCT - Solvent Bath (Dispense Rate	N/A	Added
				Section 2. SYSTEM(FAB) - PRB - DEV - XDR (Dispense Rate)	N/A	Added
				Section 2. SYSTEM(FAB) - PRB - DEV - XDR N2 Source Pressure	N/A	Added
				Section 2. SYSTEM(FAB) - PRB - DEV - XDR N2 Flow Setting	N/A	Added
				Section 2. SYSTEM(FAB) - PRB - DEV - XDR N2 Pressure Setting	N/A	Added
				Section 2. SYSTEM(FAB) - PRB - DEV - XDR N2 Pressure Sensor U/L XDR N2 Pressure Sensor L/I	N/A	Added
				Section 3. SYSTEM (SUB-FAB) - COT Cabinet - External - COT Cabinet - IFFS Control box P_1 setting	N/A	Added
				Section 3. SYSTEM (SUB-FAB) - COT Cabinet - External - COT Cabinet - IFFS Control box P_2 setting	N/A	Added
				Section 3. SYSTEM (SUB-FAB) - COT Cabinet - External - COT Cabinet - IFFS Control box P_3 setting	N/A	Added
				Section 3. SYSTEM (SUB-FAB) - COT Cabinet - External - COT Cabinet - CRF Return Line	N/A	Added
				Section 3. SYSTEM (SUB-FAB) - COT Cabinet - External - COT Cabinet - CRF Drain Line	N/A	Added
				Section 3. SYSTEM (SUB-FAB) - Chemical Cabinet Exhaust Setting for all Configurations - Tool Config	TAS/TNU/TNK	TAS/TNU/TNK/TSH/TSL
				Section 3. SYSTEM (SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART	TNE - CE	TNE - CE / TNG
				Section 3. SYSTEM (SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART	TAS/TNU/TNK	TAS/TNU/TNK/TSH/TSL
				Section 4. DEV - PRB - DEV - XDR N2 Nozzle Height	N/A	Added
				Section 4. DEV - PRB - DEV - XDR-Rinse Nozzle Height	N/A	Added
				Section 5. COT/TCT/BCT - PRB - Module	COT/BCT	COT/BCT/TCT
				Section 5. COT/TCT/BCT - PRB - COT - Middle Cup Height - Tolerance	2.8 ~ 3.6	2.7 ~ 3.7
				Section 5. COT/TCT/BCT - PRB - COT - Middle Cup Height - Remarks	Use Digital cup height JIGCOT Spinner uses PV Cup[Torque 75cn*m] Check current Torque DocDirect reading will be 2.4mm from the TOP of the wafer to the top of the middle cup	Average of 6 measurements with digital c height jig COT Spinner uses PV Cup[Torque 75cn*m] Check current Torq DocActual reading will be 2.4mm from t TOP of the wafer to the top of the middl cup
				Section 5. COT/TCT/BCT - PRB - COT - Knife Edge Height	N/A	Added
				Section 5. COT/TCT/BCT - PRB - COT/TCT/BCT - Resist Nozzle Height Home Position 6.5 mm - Remarks	Set by using measuring scale Measure from the topo the resist bath to the bottom of the resist nozzle base.	For Dry tools and not complete CN-CT CMP-14-0015 toolsSet by using measuri scale Measure from the topo the resist ba to the bottom of the resist nozzle base.
				Section 5. COT/TCT/BCT - PRB - COT/TCT/BCT - Resist Nozzle Height Home Position 4.5 mm	N/A	Added
				Section 8. ARM - CRA - CSB- CRA - Description of Setting	Z-Height - Foup[TNE/TBC/TAR/TNS/TNR/TAX/TNU]	Z-Height - Foup[All Others]

Hardware FPD Revision History (3/5)

Date	Rev.	Approval		Location	Old	New
		INTEL	TEL			
8/6/2015	2.01	K. Proctor H. Sarthak K. Kevin	P. Ito	Section 2. SYSTEM(FAB) - PRB - DEV - XDR N2 Pressure Setting - Tool Settin	TBD	265
				Section 2. SYSTEM(FAB) - PRB - DEV - XDR N2 Pressure Setting - Toleranc	TBD	150 ~ 300
				Section 3. SYSTEM (SUB-FAB) - COT Cabinet - External - COT Cabinet - IFFS Control box P_1 setting	0.09 ~ 0.11	0.08 ~ 0.12
				Section 3. SYSTEM (SUB-FAB) - COT Cabinet - External - COT Cabinet - IFFS Control box P_2 setting	0.13~ 0.15	0.12 ~ 0.16
				Section 3. SYSTEM (SUB-FAB) - COT Cabinet - External - COT Cabinet - IFFS Control box P_3 setting	0.18 ~ 0.20	0.17 ~ 0.21
				Section 3. SYSTEM (SUB-FAB) - NTD Cabinet - External - COT Cabinet - IFFS Control box P_1 setting	N/A	Added
				Section 3. SYSTEM (SUB-FAB) - NTD Cabinet - External - COT Cabinet - IFFS Control box P_2 setting	N/A	Added
				Section 3. SYSTEM (SUB-FAB) - NTD Cabinet - External - COT Cabinet - IFFS Control box P_3 setting	N/A	Added
				Section 3. SYSTEM (SUB-FAB) - NTD Cabinet - External - COT Cabinet - CRF Return Line	N/A	Added
				Section 3. SYSTEM (SUB-FAB) - NTD Cabinet - External - COT Cabinet - CRF Drain Line	N/A	Added
				Section 4. DEV - PRB - DEV - XDR N2 Nozzle Height - Tool Setting	12	3
				Section 4. DEV - PRB - DEV - XDR N2 Nozzle Height - Tolerance	11.5 ~ 12.5	2.8 ~ 3.2
				Section 4. DEV - PRB - DEV - XDR N2 Nozzle Height - TEL Std.	12 +/- 0.5	3 +/- 0.2
				Section 4. DEV - PRB - DEV - XDR-Rinse Nozzle Height - Tool Setting	3	12
				Section 4. DEV - PRB - DEV - XDR-Rinse Nozzle Height - Tolerance	2.8 ~ 3.2	11.5 ~ 12.5
				Section 4. DEV - PRB - DEV - XDR-Rinse Nozzle Height - TEL Std.	3 +/- 0.2	12 +/- 0.5
11/12/2015	2.02	K. Proctor	P. Ito	No HW change in this revision	NA	NA
2/24/2015	2.03	K. Proctor	P. Ito	Section 1. Overview (Configuration) -1.1 [TAX] Immersion Configuration (Resist Tracks) - 5-1/5-2 COT - Add Commı	NA	BCT module on TAX430/TAX43
				Section 1. Overview (Configuration) -1.1 [TAX] Immersion Configuration (Resist Tracks) - 6-1/6-2 COT - Add Commı	NA	TCT module on TAX430/TAX43
				Section 2. SYSTEM(FAB) - PRB - DEV - MGP (Dispense Rate)	300	300 / 400*
				Section 2. SYSTEM(FAB) - PRB - DEV - MGP (Dispense Rate) - Remarks	Dynamic Setting	Dynamic Setting, *400 for Post SEI
				Section 2. SYSTEM(FAB) - PRB - DEV - GP (Dispense Rate)	600	600 / 500*
				Section 2. SYSTEM(FAB) - PRB - DEV - GP (Dispense Rate) - Remarks	Dynamic Setting	Dynamic Setting, *500 for Post SEI
				Section 2. SYSTEM(FAB) - PRB - DEV - XDR N2 Source Pressure -Tolerance	0.32 to 0.38	0.32 to 0.35
				Section 2. SYSTEM(FAB) - PRB - DEV - XDR N2 Source Pressure -TEL Std.	0.35 +/- 0.03	0.35+0/-0.03
				Section 2. SYSTEM(FAB) - PRB - DEV - XDR N2 Source Pressure -Remarks	Dynamic Setting	Static Setting
				Section 2. SYSTEM(FAB) - PRB - DEV/NTD -Supply Exhaust NTD (E1,E2,E23) (6x6 Config) - Description of Setting	E1,E2,E23	E2/E23
				Section 2. SYSTEM(FAB) - PRB - DEV/NTD -Supply Exhaust NTD (E1) (6x6 Config) - Description of Setting	NA	Added (300 to 600)
				Section 3. SYSTEM (SUB-FAB) - COT Cabinet - External - COT Cabinet - 4/6-1,2,3,4 RRC / Solvent Bath DIW supply pressure	NA	Added
				Section 3. SYSTEM (SUB-FAB) - COT Cabinet - External - COT Cabinet - 4/6-1,2,3,4 Backrinse / Exhaust Duct /EBR DIW supplypressure	NA	Added
				Section 3. SYSTEM (SUB-FAB) - Chemical Cabinet Exhaust Setting for all Configurations - TN	NA	Added
				Section 3. SYSTEM (SUB-FAB) - Chemical Cabinet Exhaust Setting for all Configurations - TAS/TNU/TNK/TSH/TSL - EA1 TARGET CFM	53.0	21.2
				Section 3. SYSTEM (SUB-FAB) - Chemical Cabinet Exhaust Setting for all Configurations - TAS/TNU/TNK/TSH/TSL - EC1 TARGET CFM	35.3	21.2
				Section 4. DEV - PRB - DEV - ADR N2 Nozzle Height - Remarks	Set by using PRO-V set up tool	The setting is information only The heig set up by ADR Rinse nozzle heigh
				Section 4. DEV - PRB - DEV - ADR-Rinse Nozzle Height - Remarks	Set by using PRO-V set up tool	The setting is informal only on XDR equipped tools ADR Rinse enabled tool ADR rinse nozzle by using PRO-V setu tool
				Section 4. DEV - PRB - DEV - XDR N2 Nozzle Height - Remarks	Set by using PRO-V set up tool	XDR enabled tool set XDR N2 nozzle height by using PRO-V setup too
				Section 4. DEV - PRB - DEV - XDR-Rinse Nozzle Height - Remarks	Set by using PRO-V set up tool	The setting is information only The heig set up by XDR N2 nozzle height
				Section 5. COT/TCT/BCT - PRB - COT - Knife Edge Height - Remarks - added comment	NA	The setting is information only Cup is set by Middle Cup Heigh
				Section 5. COT/TCT/BCT - PRB - Module	BCTTAX ONLY	BCT TAX430/431 ONLY
				Section 7. OVEN - CPRP/CPHP/CHCH/CGCH/CSWP - PRB - Module - E1	CPHP/CPRP/CSWP	CPHP/CPRP/CSWP/CGCH
				Section 7. OVEN - CPRP/CPHP/CHCH/CGCH/CSWP - PRB - CGCH/CHCH - Module EXH U/L Setting (Nagano Keiki) (E9) - Tool Setting	580	610
				Section 7. OVEN - CPRP/CPHP/CHCH/CGCH/CSWP - PRB - CGCH/CHCH - Module EXH L/L Setting (Nagano Keiki) (E9) - Tool Setting	520	490
				Section 7. OVEN - CPRP/CPHP/CHCH/CGCH/CSWP - PRB - CGCH/CHCH - Module EXH U/L Setting (Nagano Keiki) (E16) Tool Setting	530	550
				Section 7. OVEN - CPRP/CPHP/CHCH/CGCH/CSWP - PRB - CGCH/CHCH - Module EXH L/L Setting (Nagano Keiki) (E16) Tool Setting	470	450
				Section 7. OVEN - CPRP/CPHP/CHCH/CGCH/CSWP - PRB - CPHP/CPRP/CSWP - ODOR Exhaust Setting (E21/E22) - Remarks	SET BY Target Pressure	SET by CFMFor TAQ/TNQ [E22 Only]F TNE/TNG/TAX [E21/E22]
				Section 7. OVEN - CPRP/CPHP/CHCH/CGCH/CSWP - PRB - CPHP/CPRP - ODOR Exhaust Setting (E21/E22 - Layer 3)- Remarks	SET BY Target Pressure	SET by CFM[E21/E22]For 6x6 Tools
				Section 9. Sensor Setting - GC30 Sensor - PRB - OVEN - Individual Chamber Exh. - FiL	F-3	F-5
				Section 9. Sensor Setting - GC30 Sensor - PRB - OVEN - CSWP Exhaust - Uni	kPa	Pa
				Section 9. Sensor Setting - GC30 Sensor - PRB - OVEN - CSWP Exhaust - FiL	F-2	F-3
				Section 9. Sensor Setting - GC30 Sensor - External - COT CAB - Exh (Supply Cabinet) - CnP	Win	Hys
				Section 9. Sensor Setting - GC30 Sensor - External - DEV CAB - Exh (Supply Cabinet) - CnP	Win	Hys
5/2/2015	3.00	K. Proctor	P. Ito	Section 1. Overview (Configuration) -1.1 [TAX] Immersion Configuration (Resist Tracks	Exist	Deleted (Moved to 1276 FPD)
				Section 3. SYSTEM (SUB-FAB) - DEV Cabinet - XDR N2 Pressure Source	N/A	Added
				Section 3. SYSTEM (SUB-FAB) - DEV Cabinet - DEV Rinse Nozzle - TEL Std.	0.20 (+0.02/-0)	0.15 (+0.02/-0)
				Section 3. SYSTEM (SUB-FAB) - NTD Cabinet - COT Cabinet - Solvent 2 PCS (1,2) VAC Setting - Tolerance	-40.0 to -50.0	-60.0 ~ - 70.0
				Section 3. SYSTEM (SUB-FAB) - COT Cabinet1 -- TAX Only - table	Exist	Deleted (Moved to 1276 FPD)
				Section 3. SYSTEM (SUB-FAB) - COT Cabinet2 -- TAX Only - table	Exist	Deleted (Moved to 1276 FPD)
				Section 3. SYSTEM (SUB-FAB) - DEV Cabinet -- TAX Only - table	Exist	Deleted (Moved to 1276 FPD)
				Section 3. SYSTEM (SUB-FAB) - Chemical Cabinet Exhaust Setting for all Configurations - TAX table	Exist	Deleted (Moved to 1276 FPD)
				Section 3. SYSTEM (SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - TAX	Exist	Deleted (Moved to 1276 FPD)
				Section 4. DEV - PRB - DEV - MGP sub DEV - title	DEV SUB	MGP sub DEV
				Section 4. DEV - PRB - DEV - MGP sub DEV - Setting	12.6	20.0
				Section 4. DEV - PRB - DEV - MGP sub DEV - Remarks	N/A	The setting is information only
				Section 4. DEV - PRB - DEV - MGP sub DIW - title	DIW SUB	MGP sub DIW
				Section 4. DEV - PRB - DEV - MGP sub DIW - Setting	12.6	20.0
				Section 4. DEV - PRB - DEV - MGP sub DIW - Remarks	N/A	The setting is information only
				Section 6. PIR/SRS	Exist BST setting	Deleted all BST settings (Moved to 127 FPD)
				Section 7. OVEN - CPRP/CPHP/CHCH/CGCH	Exist CSWP setting	Deleted all CSWP settings (Moved to 12 FPD)
				Section 9. Sensor Setting - DP100 Sensor - PRB - CRD/ACRD - RESIST Pump Purge - SPED	2.5	5000
				Section 9. Sensor Setting - DP100 Sensor - PRB - CRD/ACRD - AMC N2 Purge - SPED	2.5	5000
				Section 9. Sensor Setting - MX-78-D24 Sensor - HMDS Weight Sensor	N/A	Added

Hardware FPD Revision History (4/5)

Date	Rev.	Approval		Location	Old	New
		INTEL	TEL			
7/22/2016	3.01	K. Proctor	H.Nagai	Section 2. System (FAB) -IPRB** - Positive Pressure - IPRB-SRS/PIR - Add Remarks	NA	INTEL Setting : SRS/PIR at 0.3 < PRAI (
				Section 9. Sensor setting -DP100 Sensor - PRB - ITC - ITC Chuck VA(	ITC Chuck VAC	BCT Chuck VAC
				Section 9. Sensor setting -DP100 Sensor - PRB - TCT - TCT Chuck VAC	NA	TCT Chuck VAC
				Section 9. Sensor setting -GC30 Sensor - PRB - SYSTEM - SPIN CUP Source Exh (ITC)	SPIN CUP Source Exh (ITC)	SPIN CUP Source Exh (TCT)
10/12/2016	4.00	K. Proctor	P.Ito/ H.Nagai	Section 1. Overview (Configuration) -1.5 [TSH] Shrink Configuration	Exist	Deleted
				Section 1. Overview (Configuration) -1.6 [TSL] Slim Configuration	Exist	Deleted
				Section 1. Overview (Configuration) -1.7 [TAQsl] TAQ Slim Configuration	Exist	Deleted
				Section 1. Overview (Configuration) -1.8 [TAQsh] TAQ Shrink Configuration	Exist	Deleted
				Section 1. Overview (Configuration) -1.5 [THYli] Slim/Shrink Hybrid Configuration	NA	Added
				Section 1. Overview (Configuration) -1.6 [THYlc] Slim/Shrink Hybrid Configuration	NA	Added
				Section 1. Overview (Configuration) -1.7 [TAQhb] Slim/Shrink Hybrid Configuration	NA	Added
				Section 2. SYSTEM(FAB) - PRB - DEV/NTD -Supply Exhaust NTD (E2) (6x6 Config) - Tool Setting	500	400
				Section 2. SYSTEM(FAB) - PRB - CADH -Chemical Area Exhaust (E8)	NA	Added
				Section 3. SYSTEM(SUB-FAB) - Constant Pressure Valuve Table - Title	For TAS/TNK/TNU with Constant Pressure Valves	For Immersion / Post SED tools with Constant Pressure Valves
				Section 3. SYSTEM(SUB-FAB) - Chemical Cabinet Exhaust Setting - TAQ/TNQ [NTD and Post SED] - Title	TAQ/TNQ [NTD]	TAQ/TNQ [NTD and Post SED]
				Section 3. SYSTEM(SUB-FAB) - Chemical Cabinet Exhaust Setting - TAS/TNU/TNK/THY - Title	TAS/TNU/TNK/TSH/TSL	TAS/TNU/TNK/THY
				Section 3. SYSTEM(SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - TAQ/TNQ (NTD and Post SED) - Title	TAQ/TNQ(NTD)	TAQ/TNQ (NTD and Post SED)
				Section 3. SYSTEM(SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - TNE (Non-CE) table	NA	Added
				Section 3. SYSTEM(SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - TAS/TNU/TNK - title	TAS/TNU/TNK/TSH/TSL	TAS/TNU/TNK
				Section 3. SYSTEM(SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - THY	NA	Added
				Section 5. COT/TCT/BCT - PRB - COT - Middle Cup Height - Tool Setting	3.2	Resist =3.1 PostSED = 2.8
				Section 5. COT/TCT/BCT - PRB - COT - Middle Cup Height - Tolelance	2.7 ~ 3.7	Resist = 2.6 ~ 3.6 PostSED = 2.3 ~ 3.3
				Section 5. COT/TCT/BCT - PRB - COT - Middle Cup Height - Remarks	Average of 6 measurements with digital cup height jigCOT Spinner uses PV Cup[Torque 75cn*m] Check current Torque DocActual reading will be 2.4mm from the TOP of the wafer tothe top of the middle cup	Average of 6 measurements with digital c height jigCOT Spinner uses PV Cup [Torque 75cn*m] Check current Torque DocActual reading will be 2.3mm/2.0m from the TOP of the wafer to the top of t middle cup The setting is information only, cup is set by knife edge gar
				Section 5. COT/TCT/BCT - PRB - COT - Knife Edge Height - Tool Setting	-1.5	Resist = -1.5 PostSED = -1.7
				Section 5. COT/TCT/BCT - PRB - COT - Knife Edge Height - Tolelance	-1.0 ~ -2.0	Resist = -1.0 ~ -2.0 PostSED = -1.2 ~ -2.2
				Section 5. COT/TCT/BCT - PRB - COT - Knife Edge Height - Remarks	Average of 6 measurements with digital cup height jigCOT Spinner uses PV Cup[Torque 75cn*m] Check current Torque DocThe setting is information onlyCup is set up by Middle Cup Height	Average of 6 measurements with digital cup height jigCOT Spinner uses PV Cup [Torqu 75cn*m] Check current Torque Doc
				Section 5. COT/TCT/BCT - PRB - BCT Only - Middle Cup Height	Exist	Removed since the spec for EUV onl
				Section 5. COT/TCT/BCT - PRB - BCT BARC TCT Shrink - Knife Edge Height - Remarks	Use Digital cup height JIGBCT Spinner for BARC tools uses TCT Cup[Torque 75cn*m Check current Torque DocMeasured from the bottom of the wafer to the top of theINNER cup	Use Digital cup height JIGBCT Spinner f BARC tools uses TCT Cup with smooth upper cup.TCT spinner for PostSED use TCT cup with rough upper cup.[Torque 75cn*m] Check current Torque DocMeasured from the bottom of the wa to the top of the INNER cup
				Section 7. OVEN - CPHP/CPRP/CGCH/CHCH - CPHP/CPRP - Chamber (L/R) Purge flowrate U/L Setting, Chamber (L/R) Purg flowrate L/L Setting - Remarks	Set by Sub-Op display	removed comment
				Section 7. OVEN - CADH - HP Gap pin - Tolerance	0.992 ~ 0.108	0.075 ~ 0.105
				Section 7. OVEN - CADH - HP Gap pin - TEL Std	0.1 +/- 0.008	0.1 +0.005/-0.0025
				Section 7. OVEN - CADH - Local Exhaust (E11)	NA	Added
				Section 7. OVEN - CADH - EXH Upper Limit (E11)	NA	Added
				Section 7. OVEN - CADH - EXH Lower Limit (E11)	NA	Added
1/23/2017	4.02	K. Proctor	H.Nagai	Section 2. SYSTEM (FAB) - PRB - COT - Back Rinse (Dispense Rate) - *Expect for ITC module	100 ml/min	Deleted
2/6/2017	4.03	K. Proctor	H.Nagai	Section 9. Sensor Setting - DP100 sensor - PRB - CRD - RESIST Pump Purge	2.5	5000
				Section 9. Sensor Setting - DP100 sensor - PRB - CRD - AMC N2 Purge	2.5	5000
6/9/2017	4.04	K. Proctor	H.Nagai	Section 1. Overview (Configuration) - CE TNE - Added	NA	CE TNE
				Section 1. Overview (Configuration) - Non-CE TNE - Added	NA	Non-CE TNE
				Section 1. Overview (Configuration) - HVM TNE - Added	NA	HVM TNE
				Section 1. Overview (Configuration) - TNG - Added	NA	TNG
				Section 2. SYSTEM(FAB) - PRB - COT/BCT - Bevel Rinse Speed Conroller - Added	NA	15 tunes
				Section 3. SYSTEM(SUB-FAB) - COT Cabinet - External - COT Cabinet - FILTER VENT - Toleranc	NA	54 to 66
				Section 3. SYSTEM(SUB-FAB) - COT Cabinet - External - COT Cabinet - FILTER PURGE - Toleranc	NA	68 to 82
				Section 3. SYSTEM(SUB-FAB) - COT Cabinet - External - COT Cabinet - CRF Return Line - Toleranc	NA	54 to 66
				Section 3. SYSTEM(SUB-FAB) - COT Cabinet - External - COT Cabinet - CRF Drain Line - Toleranc	NA	54 to 66
				Section 3. SYSTEM(SUB-FAB) - NTD Cabinet - External - COT Cabinet - FILTER VENT - Toleranc	NA	54 to 66
				Section 3. SYSTEM(SUB-FAB) - NTD Cabinet - External - COT Cabinet - FILTER PURGE - Toleranc	NA	68 to 82
				Section 3. SYSTEM(SUB-FAB) - NTD Cabinet - External - COT Cabinet - CRF Return Line - Toleranc	NA	54 to 66
				Section 3. SYSTEM(SUB-FAB) - NTD Cabinet - External - COT Cabinet - CRF Drain Line - Toleranc	NA	54 to 66
				Section 3. SYSTEM(SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - Non-CE TNE - Setting tabl	NA	Added
				Section 3. SYSTEM(SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - CE TNE - Setting tabl	NA	Added
				Section 3. SYSTEM(SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - HVM TNE - Ssetting tabl	NA	Added
				Section 3. SYSTEM(SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - TNG - Setting tabl	NA	Added
				Section 3. SYSTEM (SUB-FAB) – TNE DEV Cabine	NA	Added
				Section 3. SYSTEM (SUB-FAB) – TNG DEV Cabine	NA	Added
				Section 3. SYSTEM (SUB-FAB) – TAR/TNR DEV Cabine	NA	Added
				Section 3. SYSTEM (SUB-FAB) – Immersion and Post SED DEV Cabine	NA	Added
				Section 3. SYSTEM (SUB-FAB) - Chemical Cabinet Exhaust Setting for all Configurations – TNE [HVM]	NA	Added
				Section 7. OVEN - CPHP/CPRP/CGCH/CHCH – PRB - CPHP/CPRP - ODOR Exhaust Setting (E21/E22) – Remarks	For TAQ/TNQ[E22 Only]	For TAQ/TNQ/HVM TNE[E22 Only]
7/7/2017	4.05	K. Proctor	H.Nagai	Section 4. DEV – PRB – NTD – NTD Rinse Nozzle Height – Remarks	Measure from Tip of nozzle to wafer surface	NTD Rinse Nozzle height as "informational only" since the arm is calibrated with the NTD Nozzle
10/2/2017	4.07	K. Proctor	H.Nagai	Section 7. OVEN - PRB - CPHP/CPRP/CGCH - Cool Arm to 3-Pin Up Height - Tool Setting	2	>1.5
				Section 7. OVEN - PRB - CPHP/CPRP/CGCH - Cool Arm to 3-Pin Up Height - Tolerance	2~1.5	2~4
				Section 7. OVEN - PRB - CADH - Cool Arm to 3-Pin Up Height - Tool Setting	2	>1.5
				Section 7. OVEN - PRB - CADH - Cool Arm to 3-Pin Up Height - Tolerance	2~1.5	2~4
				Section 7. OVEN - PRB - CGCH - Cool Arm Gap Pin	NA	0.35
				Section 8. ARM - PRB - PRA - Fork Diameter (3-0, 4-0, 5-0, 6-0) Fork 1 - Tolerance	NA	+/- 0.020
				Section 8. ARM - PRB - PRA - Fork Diameter (3-0, 4-0, 5-0, 6-0) Fork 2 - Tolerance	NA	+/- 0.020
12/14/2017	4.08	K. Proctor	H.Nagai	Section 1. Overview (Configuration)	THY	Removed
				Section 1. Overview (Configuration)	TAQhb	Removed
				Section 2. SYSTEM (FAB) - PRB - DEV - MGP (Dispense Rate) - PostSED specific setting	400	Removed
				Section 2. SYSTEM (FAB) - PRB - DEV - GP (Dispense Rate) - PostSED specific setting	500	Removed
				Section 2. SYSTEM(FAB) - STB - SYSTEM - Resist Bottle Pressure - Remark	Static Pressure Setting	Dynamic Pressure Setting
				Section 3. SYSTEEM (SUB-FAB) - COT Cabinet - External - COT Cabinet - 4/6-1,2,3,4 RRC / Solvent Bath DIW supply pressu	0.15	Removed
				Section 3. SYSTEEM (SUB-FAB) - COT Cabinet - External - COT Cabinet - 4/6-1,2,3,4 Backrinse / Exhaust Duct / EBR DIW supply pressure	0.15	Removed
				Section 3. SYSTEEM (SUB-FAB) - Chemical Cabinet Exhaust Setting for all Configuration	THY / PostSED	Removed from Tool config
				Section 3. SYSTEEM (SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART	TAQ/TNQ (NTD and PostSED)	TAQ/TNQ
				Section 5. COT / TCT / BCT - ALL	All categories	Removed all TCT and PostSED items

Hardware FPD Revision History (5/5)

Date	Rev.	Approval		Location	Old	New
		INTEL	TEL			
7/9/2018	4.10	K. Proctor	Sam S./ J. Robinson	Section 3. SYSTEM(SUB-FAB) - COT Cabinet - Added COT CAB Installation Height (V5)	---	90mm
				Section 3. SYSTEM(SUB-FAB) - DEV Cabinet - Added DEV CAB Installation Height (V5)	---	90mm
				Section 8. ARM - Add comment to PRA Z-Height - Cup Wash	---	Check height of 5.5mm at center of Cup Wash module
				Section 9. Sensor Setting - Remove part numbers next to each sensor type	Part Numbers	Removed
9/7/2018	5.00	K. Proctor	H.Nagai	Section 9. Sensor setting – DP100 sensor - CSB	NA	Added
11/28/2018	5.01	K. Proctor	H.Nagai	Cover. - Revision	5.00	5.01
				Section 2. SYSTEM (FAB) - IPRB - SRS - IE Nozzle (Dispense Rate)2	not for BST	Deleted the row
				Section 7. OVEN - CPHP/CPRP/CGCH/CHCH/CSWP - PRB - CPRP - HP Gap Pin - Outer Circle (Tool Setting / Tolerance)	NA	Added
				Section 7. OVEN - CPHP/CPRP/CGCH/CHCH/CSWP - PRB - CPRP - HP Gap Pin - Middle Circle (Tool Setting / Tolerance)	NA	Added
				Section 7. OVEN - CPHP/CPRP/CGCH/CHCH/CSWP - PRB - CPRP - HP Gap Pin - Inner Circle (Tool Setting / Tolerance)	NA	Added
2/20/2019	5.02	K. Proctor	H.Nagai	Section 2, SYSTEM (FAB) - CSB - SYSTEM - Load Port Door OPEN/CLOSED Speed (Old setting)	NA	2.8 (±0.3)
				Section 2, SYSTEM (FAB) - CSB - SYSTEM - Load Port Air Supply Setting - Tolerance	NA	0.42 ~ 0.48
				Section 2, SYSTEM (FAB) - CSB - SYSTEM - Load Port Door OPEN/CLOSED Speed - Tolerance	NA	2.3±0.3
				Section 2, SYSTEM (FAB) - CSB - SYSTEM - Door Protrusion Check - Tolerance	NA	1.7+/-0.2
				Section 3. SYSTEM (SUB-FAB) - DEV Cabinet - External - DEV Cabinet - XDR N2 Pressure Source	DEV Cabinet	COT Cabinet
				Section 3. SYSTEM (SUB-FAB) - Chemical Cabinet Exhaust Setting for all Configurations - TNG - COT Cabinet - Exhaus HMDS (EA5) - Tolerance	15 to 325	5 to 100
				Section 3. SYSTEM (SUB-FAB) - Chemical Cabinet Exhaust Setting for all Configurations - TAS/TAU/YNU/TNK - COT Cabinet - Exhaust HMDS (EA5) - Setting	25	15
				Section 3. SYSTEM (SUB-FAB) - Chemical Cabinet Exhaust Setting for all Configurations - TNG - COT Cabinet - Exhaust HMDS (EA5) - Setting	25	15
				Section 3. SYSTEM (SUB-FAB) - Chemical Cabinet Exhaust Setting for all Configurations - TNG - COT Cabinet - Exhaust HMDS U/L Setting (EA5) - Tool Setting	350	100
				Section 3. SYSTEM (SUB-FAB) - Chemical Cabinet Exhaust Setting for all Configurations - TNG - COT Cabinet - Exhaus HMDS L/L Setting (EA5) - Tool Setting	10	5
				Section 3. SYSTEM (SUB-FAB) - Chemical Cabinet Exhaust Setting for all Configurations - TAS/TAU/YNU/TNK - CO Cabinet - Exhaust HMDS (EA5) - Tolerance	15 to 325	5 to 100
				Section 3. SYSTEM (SUB-FAB) - Chemical Cabinet Exhaust Setting for all Configurations - TAS/TAU/YNU/TNK - CO Cabinet - Exhaust HMDS U/L Setting (EA5) - Tool Setting	350	100
				Section 3. SYSTEM (SUB-FAB) - Chemical Cabinet Exhaust Setting for all Configurations - TAS/TAU/YNU/TNK - CO Cabinet - Exhaust HMDS L/L Setting (EA5) - Tool Setting	10	5
				Section 3. SYSTEM (SUB-FAB) - STHC1 - External - THC - Utility Supply (PCW) - Remark	NA	Not present on all tracks
				Section 3. SYSTEM (SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - TAQ/TNQ - External - CHILLER - Utility Supply (PCW) - Remarks	NA	Not present on all tracks
				Section 3. SYSTEM (SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - NON-CE TNE - External - CHILLER - Utility Supply (PCW) - Remarks	NA	Not present on all tracks
				Section 3. SYSTEM (SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - CE TNE - External - CHILLER - Utility Supply (PCW) - Remarks	NA	Not present on all tracks
				Section 3. SYSTEM (SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - HVM TNE - External - CHILLER - Utility Supply (PCW) - Remarks	NA	Not present on all tracks
				Section 3. SYSTEM (SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - TNG - External - CHILLER - Utility Supply (PCW) - Remarks	NA	Not present on all tracks
				Section 3. SYSTEM (SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - TBC/TBE - External - CHILLER - Utility Supply (PCW) - Remarks	NA	Not present on all tracks
				Section 3. SYSTEM (SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - TAS/TAU/TNU/TNK - External CHILLER - Utility Supply (PCW) - Remarks	NA	Not present on all tracks
				Section 7. OVEN - CPHP/CPRP/CGCH/CHCH/CSWP - PRB - CPRP - HP Gap Pin - Outer Circle -Tool Setting	NA	Added
				Section 7. OVEN - CPHP/CPRP/CGCH/CHCH/CSWP - PRB - CPRP - HP Gap Pin - Outer Circle -Tolerance	NA	Added
				Section 7. OVEN - CPHP/CPRP/CGCH/CHCH/CSWP - PRB - CPRP - HP Gap Pin - Middle Circle -Tolerance	NA	Added
				Section 9. Sensor Settings - GC30 Sensor - LoP	0	Tool specific
4/05/2019	5.03	K. Proctor	H.Nagai	Cover. - Revision	5.02	5.03
				INDEX - High Altitude Setting Fab/Sub-Fab	NA	Added
				Section 1. Overview (Configuration) - 1.8 TBL Configuration	NA	Added
				Section 2. SYSTEM (FAB) - PRB - CPRP - CPRP Chamber N2 Purge Source Pressure	NA	Added (Deck 4 specific)
				Section 3. SYSTEM (SUB-FAB) - DEV Cabinet - TNG DEV Cabine	TNG DEV Cabinet	TNG/TBL DEV Cabinet
				Section 3. SYSTEM (SUB-FAB) - Chemical Cabinet Exhaust Setting for all Configurations - Tool Config - TNG	TNG	TNG / TBL
				Section 3. SYSTEM (SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - TBL Tabl	NA	Added
				Section 3. SYSTEM (SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - External - CHILLER - Utility Supply (PCW) - Remarks	Not present on all trracks (for all specification)	Deleted the row
				Section 3. SYSTEM (SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - TBL Table	NA	Added
				Section 3. SYSTEM (SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - TBL Table	NA	Added
				Section 10. High Altitude Setting Fab/Sub-Fab	NA	Added
6/11/2019	6.00	K. Proctor	H.Nagai	Cover. - Revision	5.03	6.00
				Section 2. SYSTEM(FAB) - PRB - SYSTEM - Positive Pressure - Remarks	NA	PRB ≥ CSB
				Section 2. SYSTEM(FAB) - PRB - DEV/NTD - Positive Pressure - Tool Setting	0.7	0.6
				Section 2. SYSTEM(FAB) - PRB - DEV/NTD - Positive Pressure - Tolerance	0.5 to 0.9	0.5 to 0.6
				Section 2. SYSTEM(FAB) - PRB - DEV/NTD - DEV/NTD Positive Pressure Bias	NA	Added
				Section 3. SYSTEM(SUB-FAB) - TNG/TBL DEV Cabinet - External - DEV Cabinet - C.P.V for D.I. Wafer	TBD	0.19 ~ 0.21
				Section 3. SYSTEM(SUB-FAB) - Immersion DEV Cabinet - External - DEV Cabinet - C.P.V for D.I. Wafer	TBD	0.19 ~ 0.21
				Section 3. SYSTEM(SUB-FAB) - Immersion DEV Cabinet - External - DEV Cabinet - C.P.V for MGP Sub D.I. Water	TBD	0.14 ~ 0.16
				Section 3. SYSTEM(SUB-FAB) - Immersion DEV Cabinet - External - DEV Cabinet - C.P.V for SRS	TBD	0.14 ~ 0.16
				Section 3. SYSTEM(SUB-FAB) - Immersion DEV Cabinet - External - DEV Cabinet - C.P.V for PIR	TBD	0.14 ~ 0.16
				Section 3. SYSTEM(SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - TBL - External - CHILLER - Temperature Control Water Flow Rate(CH4-1) Bypass - Tool Setting	3.0	2.0
				Section 3. SYSTEM(SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - TBL - External - CHILLER - Temperature Control Water Flow Rate(CH5-2-1)	CPL - D	CPL-M 2-15
				Section 3. SYSTEM(SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - TBL - External - CHILLER - Temperature Control Water Flow Rate(CH5-2-1) - Tool Setting	9.0	3.0
				Section 3. SYSTEM(SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - TBL - External - CHILLER - Temperature Control Water Flow Rate(CH5-2-2)	CPL-M 2-15	CPL - D
				Section 3. SYSTEM(SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - TBL - External - CHILLER - Temperature Control Water Flow Rate(CH5-2-2) - Tool Setting	3.0	9.0
				Section 5. COT/BCT - PRB - Module - CUP EXH	COT_TNE/TNG	COT_TBL/TNE/TNG
				Secion 7. OVEN - CADH - PRB - Local Exhaust (E11) - for 7CADH systems (w/ Upper/Lower Limits)	NA	Added
				Secion 7. OVEN - CADH - PRB - Local Exhaust (E11) - Tool Setting	NA	450
				Secion 7. OVEN - CADH - PRB - Local Exhaust (E11) - Tolerance	NA	400 to 500
				Secion 7. OVEN - CADH - PRB - EXH Upper Limit (E11)	NA	500
				Secion 7. OVEN - CADH - PRB - EXH Lower Limit (E11)	NA	400
8/15/2019	6.01	K. Proctor	H. Nagai	Cover - Teaching Version	1.27	1.28
				Cover - Main Software version	100.0.58.225	100.0.58.226
				Cover - Revision	6.00	6.01
				Section 1. Overview (Configuration) - 1.4 TBEna Configuration	NA	Added
				Section 3. SYSTEM(Sub FAB) - STHC CHILLER FLOW RATE SETTING CHART - TBEna setting table	NA	Added
10/28/2019	6.02	K. Proctor	H. Nagai	Cover - Revision	6.01	6.02
				Section 1. Overview (Configuration) - TBM	NA	Added
				Section 1. Overview (Configuration) - TNE/TNG High Throughput upgrade	NA	Added
				Section 3. SYSTEM (SUB-FAB) - TBM Related items	NA	Added
				Section 3. SYSTEM (SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - NON-CE TNE with High Troughput Up	NA	Added
				Section 3. SYSTEM (SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - CE TNE with High Troughput Upgrade	NA	Added
				Section 3. SYSTEM (SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - HVM TNE with High Troughput Upgra	NA	Added
				Section 3. SYSTEM (SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - TNG with High Troughput Upgrade	NA	Added
				Section 3. SYSTEM (SUB-FAB) - Ultrasonic flowmeter setting for "Liquid Kind" - Solvent	Solvent	Solvent (POS, PGMEA, EL)
				Section 5. COT/BCT - PRB - COT/BCT/TCT - Resist Nozzle Height Home Position - Remarks	-	6.5mm: For DRY / IMM tools 4.5mm: For BARC tools
				Section 5. COT/BCT - PRB - COT/BCT/TCT - TBM Related items	NA	Added
				Section 7. OVEN - CPHP/CPRP/CGCH/CHCH/CSWP – ODOR Exhaust Setting (E21/22) - TBL/TBM settings	NA	Added

Hardware FPD Revision History (6/6)

Date	Rev.	Approval		Location	Old	New
		INTEL	TEL			
2/20/2020	6.03	K. Proctor	H.Nagai	Section 1. Overview (Configuration) - 1.9 HVM TNE Configuration_D5 Blanke	NA	Added
				Section 1. Overview (Configuration) - 1.9 HVM TNE Configuration_D5/D6 Blanke	NA	Added
				Section 3. SYSTEM (SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - D5 Blanked HVM TN	NA	Added
				Section 3. SYSTEM (SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - D5 Blanked HVM TNE with Higl Troughput Upgrade	NA	Added
				Section 3. SYSTEM (SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - D5/D6 Blanked HVM TN	NA	Added
				Section 3. SYSTEM (SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - D5/D6 Blanked HVM TNE with Higl Troughput Upgrade	NA	Added
				Section 3. SYSTEM (SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - TNG with High Throughput Upgrad and TBM - CH4-2 - Tolerance	1.9 to 2.1	12.5 to 13.5
				Section 3. SYSTEM (SUB-FAB) - STHC CHILLER FLOW RATE SETTING CHART - TNG with High Throughput Upgrade and TBM - CH4-2 - TEL Std	2+/-0.1	13+/-0.5
4/15/2020	7.00	K. Proctor	H.Nagai	Cover - Revisior	3.06	4.00
				Cover - Software Version - All Tools except Dry	100.0.58.218	100.0.58.226
				Cover - Software Version - TBL only	NA	100.0.58.228
				Section 5. COT /TCT / BCT - PRB - COT - Knife Edge Height - Remarks	NA	when checking fork for tightness, use th 300.3mm disc.
				Section 7. OVEN - CADH - PRB - CADH - Local Exhaust (E11) - 7 CADH units - Tolerance	400 to 500	430 to 470
				Section 7. OVEN - CADH - PRB - CADH - Local Exhaust (E11) - 9 CADH units - Tolerance	0.450 to 0.550	0.480 to 0.520
				Section 8. ARM - MPRA/PRA/PRAI - Fork Diameter - Remarks	NA	The setting is reference only, cup is set u by Middle Cup height
3/12/2021	7.01	K. Proctor	Dan	Cover - Revisior	4.00	4.01
				Cover - Software Version for Dry Too	100.0.58.213	100.0.58.218
4/2/2021	7.02	K. Proctor	Dan	9.Sensor Setting REV liquid sensor setting	N/A	Setting listed
6/4/2021	7.03	K. Proctor	Dan	5.2. System Config Parameter, Spinners (COT/BCT) Adding Circulation setting for D6 IMM*** specific.	Valid, Invalid=Invalid Time for circulation recovery=60 Time for continuous circulation=6(	Valid, Invalid=Valid Time for circulation recovery=1200 Time for continuous circulation=1:
	7.03	K. Proctor	Dan	5.2. System Config Parameter, Spinners (COT/BCT) CRF Setting for D6 IMM*** specific.	CRF Setting Guarantee Time of Continuous Circulation=60	CRF Setting Guarantee Time of Continuous Circulation=0
	7.03	K. Proctor	Dan	9. Sensor Setting Adding setting info for E3X-MD36T-T Senso		Adding setting

Software FPD Revision History (1/9)

Date	Rev.	Approval		Location	Old	New
		INTEL	TEL			
3/25/2014	1.00	K. Proctor	Sam. S	Original Release	N/A	100.0.53.6 MCr287
05/28/2014	1.01	K. Proctor	Sam. S	Section: 5.1.Sys Config(DEV) - Block Arm - Right(WET) updated	LD nozzle	GP nozzle
				Section: 5.1.Sys Config(DEV) - Block Arm - Right(WET) - Acceleration parameter update	150000	361000
				Section: 5.2.Sys Config(COT) - Addition to DFT spec setting for ACRD Pumps	N/A	[+/-1]
				Section: 5.2.Sys Config(COT) - Update to RRC Calibration setting POS	0.85 - 0.95	0.85 - 0.99
				Section: 5.2.Sys Config(COT) - Change RST PRES TRG	IFFS specific	ACRD specific
				Section: 5.2.Sys Config(COT) - Corrected EBR calibration setting	100	1.00
				Section: 5.2.Sys Config(COT) - Addition to ReturnLineValid/InvalidForPumpVent setting	*	Valid*
				Section: 5.2.Sys Config(COT) - Update Refill System - [Tool Specific] - Refill No Setting	Resist Specific	Nozzle Specific
				Section: 5.3.Sys Config(PIR,SRS,BST) - Update comment for Controller TM150-CHILLER / THC - Cup Temp/Cup Humidity	N/A	Added TH (Lithius Spec)
				Section: 5.3.Sys Config(PIR,SRS,BST) - Update comment for Controller TM150-CHILLER Table 2	N/A	Added TH (Lithius Spec)
				Section: 6.Sys Config(Oven) - CGCH - Control Table Data list - Updated to Threshold setting	106	110
				Section: 6.Sys Config(Oven) - CGCH - Update to temp for Control Table Data (Temperature Range 170, 205, 240)	240	250
				Section: 13. EC SYSTEM Setting - Updated Equipment Mode Change 2 for BARC tools	Invalid	Valid / 300 sec
				5.3.Sys Config(PIR,SRS,BST) - Updated comment for TNU Temp/Humidity control O	** See table 1	** PIR8-1 in TNU is TEMP CTRL ON
08/07/2014	1.02	K. Proctor	P.Ito	Cover / ACRD tools / Software version	N/A	100.0.58.200
				Cover / ACRD tools / Sub Operation Panel version	N/A	5.01.35
				Cover / CRD tools / Software version	N/A	100.0.53.6
				Cover / CRD tools / MCr Patch	N/A	287
				Cover / CRD tools / Sub Operation Panel version	N/A	5.01.32
				Section: 5.1.Sys Config(DEV) - ADR1 Rinse - Calibration1	Tool Specific	1.00
				Section: 5.1.Sys Config(DEV) - NTD - Dispense Prm - Local Nozzle - Dummy Dispense Attribute	Valid	Valid*
				Section: 5.1.Sys Config(DEV) - NTD - Dispense Prm - Local Nozzle - Dummy Dispense Attribute - comment	N/A	*Invalid for BACK RINSE1 and BEVEL RINSE V2
				Section: 5.1.Sys Config(DEV) - NTD - Dispense Prm - Local Nozzle - Supply system	N/A	Merge DEV3, DEV9, BEVEL RINSE V2, RINSE1 and BACK RINSE1 into 1 table
				Section: 5.1.Sys Config(DEV) - NTD - Dispense Prm - Local Nozzle - Supply system	N/A	Vent Time at IFF-S
				Section: 5.1.Sys Config(DEV) - NTD - Dispense Prm - Local Nozzle - Dispense Monitoring Control Data	N/A	Merge DEV3, DEV9, BEVEL RINSE V2, RINSE1 and BACK RINSE1 into 1 table
				Section: 5.2.Sys Config(COT/BCT/TCT) - Block 4,5,6 PR Block, Coater CRD PUMP ONLY - Dispense Parameter - Share Nozzle - RESIST NOZZLE# - RESIST# Supply System [Tool Specific] - Exhaust open delay at Reloadin	N/A	2.4
				Section: 5.2.Sys Config(COT/BCT/TCT) - Block 4,5,6 PR Block, Coater CRD PUMP ONLY - Dispense Parameter - Share Nozzle - RESIST NOZZLE# - RESIST# Supply System [Tool Specific] - Pressure Release Tim	N/A	1
				Section: 5.2.Sys Config(COT/BCT/TCT) - Reload Initial Pressure and Pump Return Vent Initial Pressure Settin	N/A	Corrected all table and add Setting valu
				Section: 5.2.Sys Config(COT/BCT/TCT) - Block Arm - Left/Right / Module - Left, title	Block Arm - Left / Module Arm - Left	Block Arm - Left /Right / Module Arm - Left
				Section: 5.2.Sys Config(COT/BCT/TCT) - Block Arm - Left/Right / Module - Left - Spin Arm Parameter - Block Arm - Lef Right, title	Block Arm - Left	Block Arm - Left /Right
				Section: 5.2.Sys Config(COT/BCT/TCT) - Block Arm - Left/Right / Module - Left - Spin Arm Parameter - Exh Exclusive Contr Near Ready Time	N/A	Added
				Section: 5.2.Sys Config(COT/BCT/TCT) - Block Arm - Left/Right / Module - Left - Home Position - Block Arm -Left / Right, title	Block Arm - Left	Block Arm - Left / Right
				Section: 5.3.Sys Config(BST) - AIR NOZZLE1 [5] - Process Recipe Attribut	N/A	Added
				Section: 5.3.Sys Config(BST) - AIR NOZZLE1 [5] - Dummy Dispense Attribut	N/A	Added
				Section: 5.3.Sys Config(BST) - AIR NOZZLE1 [5] - Dispense Mechanism Connection [1] - Valid, Inval	N/A	Added
				Section: 8. System Parameter - Cup Wash - Washing Nozzle Tip Alarm Issu	Valid	Invalid
				Section: 10. BST Control Parameter	N/A	Added (All portion)
				Section: 14. EC SYSTEM Setting - Item Level Settings - MAINTENANCE - Exclude Modul	Service	User Service
08/13/2014	1.03	C. Allen	P. Ito	No SW change in this revision	N/A	N/A
12/11/2014	1.04	K. Proctor	P.Ito	Section: 5.1.Sys Config(DEV) - LND/ LNR FILTDRAIN1 / RFILTDRAIN1 - Filter Replacement Sequence (1)[1] - STEP1 - Pro	None	Hold
				Section: 5.1.Sys Config(DEV) - LND/ LNR FILTDRAIN1 / RFILTDRAIN1 - Filter Replacement Sequence (1)[1] - STEP4 - Pro	None	Hold
				Section: 5.1.Sys Config(DEV) - LND/ LNR FILTDRAIN1 / RFILTDRAIN1 - Filter Replacement Sequence (2)[2] - STEP1 - Pro	None	Hold
				Section: 5.2.Sys Config(COT/BCT/TCT) - Block 4,5,6 PR Block, Coater CRD PUMP ONLY - Dispense Parameter - Share Nozzle - Filter Vent Setting - Filter Vent Valid, Invali	Valid**	See Pro-V BKM spec for details
				Section: 5.2.Sys Config(COT/BCT/TCT) - Block 4,5,6 PR Block, Coater CRD PUMP ONLY - Dispense Parameter - Share Nozzle - Laser DDS	N/A	Added
				Section: 5.2.Sys Config(COT/BCT/TCT) - Block 4,5,6 PR Block, Coater CRD PUMP ONLY - Dispense Parameter - Share Nozzle - Pump Out Air Vent Setting	Valid	Invalid
				Section: 5.2.Sys Config(COT/BCT/TCT) - Block 5,6 PR Block, Coater ACRD Tool ONLY - Dispense Parameter - Shared Nozzle RESIST# Supply System [Tool Specific] - Refill Watch Tim	30	45
				Section: 5.2.Sys Config(COT/BCT/TCT) - NOZZLE.SC when nozzle height is 4.5mm *** - title	NOZZLE. SC. ***	NOZZLE. SC. when nozzle height is 4.5mm ***
				Section: 5.2.Sys Config(COT/BCT/TCT) - NOZZLE.SC when nozzle height is 6.5mm **	N/A	Added
				Section: 5.2.Sys Config(COT/BCT/TCT) - Local Nozzle - Dispense Monitoring Control Data - Calibration 1 - E.B.R. 1	[POS] 0.80 - 0.95 [PGMEA] 1.00 - 1.15	[POS] 0.80 - 0.99 [PGMEA] 1.00 - 1.15
				Section: 6. System Config Parameter, Ovens - Block 3 PR Block, Chil SWP (CSWP) Modules - Control Table Data list - Temp Range3 - Accum Threshold	N/A	60.00
				Section: 6. System Config Parameter, Ovens - Block 3 PR Block, Chil SWP (CSWP) Modules - Control Table Data list - Temp Range9 - Accum Threshold	100.00	120.00
				Section: 6. System Config Parameter, Ovens - Block 3 PR Block, Chil SWP (CSWP) Modules - Control Table Data list - Temp Range14 - Accum Threshold	150.00	175.00
				Section: 6. System Config Parameter, Ovens - Block 3 PR Block, Chil SWP (CSWP) Modules - Control Table Data list - Temp Range3-8,10-13,15-18 - Accum Time	15.00	5.00
				Section: 6. System Config Parameter, Ovens - Block 3 PR Block, Chil SWP (CSWP) Modules - Control Table Data list - Temp Range3 - Accum Threshold VAC ON	N/A	60.00
				Section: 6. System Config Parameter, Ovens - Block 3 PR Block, Chil SWP (CSWP) Modules - Control Table Data list - Temp Range9 - Accum Threshold VAC ON	100.00	120.00
				Section: 6. System Config Parameter, Ovens - Block 3 PR Block, Chil SWP (CSWP) Modules - Control Table Data list - Temp Range14 - Accum Threshold VAC ON	150.00	175.00
				Section: 6. System Config Parameter, Ovens - Block 3 PR Block, Chil SWP (CSWP) Modules - Control Table Data list - Temp Range3-8,10-13,15-18 - Accum Time	15.00	5.00
				Section: 8. System Parameter - Cup Wash - Option Automatic Cup Wash Ski	Invalid	Valid (Alarm Off)
				Section: 11. Adjustment Tool Parameter - Transfer Arm No. 4-0 Calibration Data [4-0] - 4-1 [Resist Tracks] or 4-11[BARC Tracks] - DataId - BARC Tracks	0x02	0x08
3/20/2015	1.05	K. Proctor	P.Ito	Cover / ACRD tools / Software version	100.0.58.200	100.0.58.203
				Cover / CRD tools / Software version	100.0.53.6	100.0.58.202
				Cover / CRD tools / MCr Patch	MCr287	Deleted
				Cover / CRD tools / Sub Operation Panel version	5.01.32	5.01.35
				Section: 5.1.Sys Config(DEV) - Dispense Parameter - Shared Nozzle - Dispense Monitoring Control Data - Set Flow Rate	600	600*
				Section: 5.1.Sys Config(DEV) - Dispense Parameter - Shared Nozzle - Dispense Monitoring Control Data - Comment	N/A	* 500 for Post SED
				Section: 5.1.Sys Config(DEV) - DEV NZL4(Sub) - Dispense Monitoring Control Data - Set Flow Rate	250	250*

Software FPD Revision History (2/9)

Date	Rev.	Approval		Location	Old	New
		INTEL	TEL			
3/20/2015	1.05	K. Proctor	P.Ito	Section: 5.1.Sys Config(DEV) - DEV NZL4(Sub) - Dispense Monitoring Control Data - Comment	N/A	* 400 for Post SED
				Section: 5.2.Sys Config(COT/BCT/TCT) - NOZZLE. SC when nozzle height is 4.5mm/6.5mm *** - Comment	*** NC and SC are not available for Water base solvent baths	*** NC and SC are not available for Water base solvent baths (TCT)
				Section: 5.2.Sys Config(COT/BCT/TCT) - Block Arm - Left / Right / Module Arm - Left / Exh Exclusive Control Near Reac Time - Item	Exh Exclusive Control Near Ready Time	Exh Exclusive Control Near Ready Time*
				Section: 5.2.Sys Config(COT/BCT/TCT) - Block Arm - Left / Right / Module Arm - Left / Exh Exclusive Control Near Reac Time - Commen	N/A	* The parameter only exists on TAX/TNU tools
				Section: 5.3.Sys Config (PIR/SRS/BST) - Block 8 IPB, I-RINSE / S-Rinse* - Reserved Fla	Invalid	Invalid**
				Section: 5.3.Sys Config (PIR/SRS/BST) - Block 8 IPB, I-RINSE / S-Rinse* - Reserved Flag - Comme	N/A	** Valid for Post SED Tracks
				Section: 6. System Config Parameter, Ovens - Block 3/ Block 4/ Block 5/ Block6 PR Block, Chil PHP,PRP (CPHP/CPRI Modules - Control Table Data list - Table	N/A	Added Temp. Range 20/21/22/23/24
				Section: 6. System Config Parameter, Ovens - Block 3/ Block 4/ Block 5/ Block6 PR Block, Chil PHP,PRP (CPHP/CPRI Modules - Control Table Data list - Commen	N/A	** For Post SED tracks
				Section: 6. System Config Parameter, Ovens - Block 3/ Block 4/ Block 5/ Block6 PR Block, Chil PHP,PRP (CPHP,CPRI Modules - Control Table Data - Title	Control Table Data (Temperature Range 70, 100, 125, 150)	Control Table Data (Temperature Range 60, 70, 100, 125, 150, 175)
				Section: 6. System Config Parameter, Ovens - Block 4 PR Block, C.ADH (ADH) Modules - Control Table Data list - Temperatu Range 4 - Title	Temperature Range4	Temperature Range4**
				Section: 6. System Config Parameter, Ovens - Block 4 PR Block, C.ADH (ADH) Modules - Control Table Data list - Temperatu Range 4 - Setting Lowe	N/A	125.00
				Section: 6. System Config Parameter, Ovens - Block 4 PR Block, C.ADH (ADH) Modules - Control Table Data list - Temperatu Range 4 - Accum Threshol	N/A	62.29
				Section: 6. System Config Parameter, Ovens - Block 4 PR Block, C.ADH (ADH) Modules - Control Table Data list - Temperatu Range 4 - Commen	N/A	** For Post SED tracks
				Section: 8. System Parameter - GJG - Option The Number of Remaining Wafers before Reporting Carrier Approaching Completi Event	N/A	0
				Section: 8. System Parameter - Others - Self-diagnostic information logging *	N/A	Valid
				Section: 8. System Parameter - Others - Self-diagnostic information logging ** - Comme	N/A	** = Available v54 and beyon
				Section: 8. System Parameter - Others - Brush Pressure Setting during BST wafer Processin	N/A	Invalid
				Section: 8. System Parameter - Others - Option Optimized Offset Transfer at Manual Transfer of Wafer Flow Recipe ****	N/A	Valid
				Section: 8. System Parameter - Others - Option Optimized Offset Transfer at Manual Transfer of Wafer Flow Recipe ****** Comment	N/A	****** = It is only present on tools with CI Optimizer installed.
				Section: 12. EC Display Overview - Linked Litho common log* - Comment	*Settings are available only on immersion systems with Linked Litho valid	* Settings are available on tracks linked to scanners.
				Section: 13. EC ON-LINE Setting - Linked Litho Channel Parameter* - Comme	N/A	*settings are available only on tracks linked to scanners.
				Section: 14. EC SYSTEM Setting Equipment mode change - Exposure system - Comme	*LOCAL For BARC Tools	*LOCAL For BARC and pose SED tracks
				Section: 14. EC SYSTEM Setting Equipment mode change - Automatic Register - Exposure system - Comm	*LOCAL For BARC Tools	*LOCAL For BARC and pose SED tracks
				Section: 14. EC SYSTEM Setting Equipment mode change2 - Comme	FOR BARC	FOR BARC and post SED tracks
5/6/2015	2.00	K.Proctor	P. Ito	Section: 4. System Configuration Parameter, Arm - Block 3, 4, 5, 6 PR Block - Z-axis Multistep Movement - CPL / TF	Invalid	Invalid / Valid *
				Section: 4. System Configuration Parameter, Arm - Block 3, 4, 5, 6 PR Block - Z-axis Multistep Movement - CPHP / CAD /CPRP / CGCH / CSWP	Invalid	Invalid / Valid *
				Section: 4. System Configuration Parameter, Arm - Block 3, 4, 5, 6 PR Block - Z-axis Multistep Movement - SCI	Invalid	Invalid / Valid *
				Section: 4. System Configuration Parameter, Arm - Block 3, 4, 5, 6 PR Block - Z-axis Multistep Movement - SB	Invalid	Invalid / Valid *
				Section: 4. System Configuration Parameter, Arm - Block 3, 4, 5, 6 PR Block - Z-axis Multistep Movement - Comment	N/A	* Softlanding function installed tool
				Section: 4. System Configuration Parameter, Arm - Block 3, 4, 5, 6 PR Block - Z-axis Multistep Movement (Receiv	N/A	Added
				Section: 4. System Configuration Parameter, Arm - Block 3, 4, 5, 6 PR Block - Z-axis Multistep Movement (Sen	N/A	Added
				Section: 4. System Configuration Parameter, Arm - Block 8 IPB-Immersion Configuration ONLY - Z-axis Multistep Movemen TRS	Invalid	Invalid / Valid *
				Section: 4. System Configuration Parameter, Arm - Block 8 IPB-Immersion Configuration ONLY - Z-axis Multistep Movemen ISHU	Invalid	Invalid / Valid *
				Section: 4. System Configuration Parameter, Arm - Block 8 IPB-Immersion Configuration ONLY - Z-axis Multistep Movement CPL	Invalid	Invalid / Valid *
				Section: 4. System Configuration Parameter, Arm - Block 8 IPB-Immersion Configuration ONLY - Z-axis Multistep Movement - Comment	N/A	** Softlanding function installed tool
				Section: 4. System Configuration Parameter, Arm - Block 8 IPB-Immersion Configuration ONLY - Z-axis Multistep Moveme (Receive)	N/A	Added
				Section: 4. System Configuration Parameter, Arm - Block 8 IPB-Immersion Configuration ONLY - Z-axis Multistep Moveme (Send)	N/A	Added
				Section: 5.1.Sys Config(DEV) - XDR1 N2	N/A	Added
				Section: 5.1.Sys Config(DEV) - XDR1 RINSE	N/A	Added
				Section: 5.1.Sys Config(DEV) - Block 3 PR Block, Developers [3-5] -[3-8] W/ NTD [TAQ/TNQ/TAX] Block 3/5 PR Block, Developers [3-3,4,7,8] and [5-3,4] for 6x6 NTD [TAR/TNR/TNS/TAS/TNU/TNK] - CRF Setting**	N/A	Added
				Section: 5.1.Sys Config(DEV) - Block 3 PR Block, Developers [3-5] -[3-8] W/ NTD [TAQ/TNQ/TAX] Block 3/5 PR Block, Developers [3-3,4,7,8] and [5-3,4] for 6x6 NTD [TAR/TNR/TNS/TAS/TNU/TNK] - DEV.SOLU.2 Supply System / N.T.DEV SOLUTION1 Supply System / N.T.DEV SOLUTION2 Supply System / SOLVENT2 Supply System - Return Mode Setting **	N/A	Added
				Section: 5.1.Sys Config(DEV) - Block 3 PR Block, Developers [3-5] -[3-8] W/ NTD [TAQ/TNQ/TAX] Block 3/5 PR Block Developers [3-3,4,7,8] and [5-3,4] for 6x6 NTD [TAR/TNR/TNS/TAS/TNU/TNK] - Dispense Parameter - Local Nozzle - CRF Setting*	N/A	Added
				Section: 5.1.Sys Config(DEV) - Block Arm - Left/ Block Arm - Right/ Module Arm - Left - Recipe Position - ADR / XDR - Rin Arm - Title	ADR - Rinse Arm	ADR / XDR - Rinse Arm
				Section: 5.1.Sys Config(DEV) - Block Arm - Left/ Block Arm - Right/ Module Arm - Left - Recipe Position - ADR / XDR - Rin Arm - Recipe Position Name -End	0.00	-150.00**
				Section: 5.1.Sys Config(DEV) - Block Arm - Left/ Block Arm - Right/ Module Arm - Left - Recipe Position - ADR / XDR - Rin Arm - Recipe Position Name - Edge (E	0.00	-161.00**
				Section: 5.2.Sys Config(COT/BCT/TCT) - Block 5,6 PR Block, Coater ACRD Tool ONLY - Dispense Parameter - Shared Nozzl RESIST NOZZLE# - Periodic Return Valid/Invali	N/A	Added
				Section: 5.2.Sys Config(COT/BCT/TCT) - Block 5,6 PR Block, Coater ACRD Tool ONLY - Dispense Parameter - Shared Nozzl Dispense Line Data	N/A	Added
				Section: 5.2.Sys Config(COT/BCT/TCT) - Block 5,6 PR Block, Coater ACRD Tool ONLY - Dispense Parameter - Shared Nozzl Resist Interval Return Setting	N/A	Added
				Section: 5.2.Sys Config(COT/BCT/TCT) - Block 5,6 PR Block, Coater ACRD Tool ONLY - Dispense Parameter - Shared Nozzl IFF-R Setting	N/A	Added
				Section: 5.2.Sys Config(COT/BCT/TCT) - Reload Initial Pressure and Pump Return Vent Initial Pressure Settings - To	TNU/TAS/TNK	TNU/TAS/TNK/TSH/TSL
				Section: 5.2.Sys Config(COT/BCT/TCT) - CRF Setting***	N/A	Added
				Section: 5.2.Sys Config(COT/BCT/TCT) - Monitoring Parameter - Table for Temperature Control Method - Module	4-X COT, 5-X COT/BCT, 6-X COT/BCT	4-X COT/TCT, 5-X COT/BCT/TCT, 6-X COT/BCT/TCT
				Section: 5.2.Sys Config(COT/BCT/TCT) - * Table for TM150-CHILLER / THC	4-X COT, 5-X COT/BCT, 6-X COT/BCT	4-X COT/TCT, 5-X COT/BCT/TCT, 6-X COT/BCT/TCT
				Section: 5.2.Sys Config(COT/BCT/TCT) - Table for Channel No.	4-X COT, 5-X COT/BCT, 6-X COT/BCT	4-X COT/TCT, 5-X COT/BCT/TCT, 6-X COT/BCT/TCT
				Section: 6. Sys Config, Ovens - Block 3/ Block 4/ Block 5/ Block6 PR Block, Chil PHP,PRP (CPHP/CPRP) Modules - Controller E5ZR -Loop Break Alarm Function Valid/Invalic	N/A	Added

Software FPD Revision History (3/9)

Date	Rev.	Approval		Location	Old	New
		INTEL	TEL			
5/6/2015	2.00	K.Proctor	P. Ito	Section: 6. Sys Config, Ovens - Block 3/ Block 4/ Block 5/ Block6 PR Block, Chil PHP,PRP (CPHP/CPRP) Modules - Control Table Data listValid/Invalid	N/A	Added Temp. Ramge3 / 4 / 5 / 6
				Section: 6. Sys Config, Ovens - Block 3/ Block 4/ Block 5/ Block6 PR Block, Chil PHP,PRP (CPHP/CPRP) Modules - Control Table Data (Temperature Range)	(Temperature Range 60, 70, 100, 125, 150, 175)	(Temperature Range 55, 60, 70, 100, 125, 150, 175)
8/6/2015	2.01	K. Proctor S. Havelia K. Krantz	P. Ito	Section: 5.1.Sys Config Prm Spinners (DEV) - Local Nozzle - ADR1 RINSE - "Flow Rate during Dispense Process" tab	N/A	Added
				Section: 5.1.Sys Config Prm Spinners (DEV) - Local Nozzle - RINSE1 - "Flow Rate during Dispense Process" tab	N/A	Added
				Section: 5.1.Sys Config(DEV) - Block 3 PR Block, Developers [3-5] -[3-8] W/ NTD [TAQ/TNQ/TAX] Block 3/5 PR Block Developers [3-3,4,7,8] and [5-3,4] for 6x6 NTD [TAR/TNR/TNS/TAS/TNU/TNK] - Dispense Parameter - Shared Nozzle - EXH DRAIN PUMP	N/A	Added
				Section: 5.2.Sys Config(COT/BCT/TCT) - Block Arm - Left / Right / Module Arm - Left - Recipe Position - "TCT" sectic	N/A	Added
				Section: 6. Sys Config, Ovens - Block 3/ Block 4/ Block 5/ Block6 PR Block, Chil PHP,PRP (CPHP/CPRP) Modules - Monitoring parameter - Control Table Data List - Temp Range 3 - Accum Threshol	20	18
				Section: 6. Sys Config, Ovens - Block 3/ Block 4/ Block 5/ Block6 PR Block, Chil PHP,PRP (CPHP/CPRP) Modules - Monitorir parameter - Control Table Data List - Temp Range 4 - Accum Threshol	20	18
				Section: 6. Sys Config, Ovens - Block 3/ Block 4/ Block 5/ Block6 PR Block, Chil PHP,PRP (CPHP/CPRP) Modules - Monitorir parameter - Control Table Data List - Temp Range 5 - Accum Threshol	20	18
				Section: 6. Sys Config, Ovens - Block 3/ Block 4/ Block 5/ Block6 PR Block, Chil PHP,PRP (CPHP/CPRP) Modules - Monitoring parameter - Control Table Data List - Temp Range 6 - Accum Threshol	20	18
11/12/2015	2.02	K. Proctor	P. Ito	Cover / ACRD tools / Software version	100.0.58.203	100.0.58.204
				Cover / CRD tools / Software version	100.0.58.202	100.0.58.204
				Section: 2. Start Up Setting - LINKED LITHO Interface - Comments	*= Not present on TBC & Invalid for TAX	*= Not present on BARC & Invalid for PostSED tracks
				Section: 5.2.Sys Config(COT/BCT/TCT) - Reload Initial Pressure and Pump Return Vent Initial Pressure Settings - Toc	TBC	BARC
				Section: 5.2.Sys Config(COT/BCT/TCT) - Reload Initial Pressure and Pump Return Vent Initial Pressure Settings - TA	N/A	Added
				Section: 5.2.Sys Config(COT/BCT/TCT) - Interval for Circulation ***	N/A	Added
				Section: 5.2.Sys Config(COT/BCT/TCT) - SOLVENT1 Supply System [Tool Specific] - Item / Dispen	Return Mode Setting	Return Mode Setting *4
				Section: 6. System Config Parameter, Ovens - Block 2 MP Block/ Block 8 IPB, Chil Plt (CPL) Modules - Table1 - Configuration	4x4 IMM TNE NON-CE	Dry Non-CE 4x4Imm 4x4PostSED
				Section: 6. System Config Parameter, Ovens - Block 2 MP Block/ Block 8 IPB, Chil Plt (CPL) Modules - Table1 - Configuration	4x4 IMM / 6x6 IMM TAX	EUV Imm PostSED
				Section: 6. System Config Parameter, Ovens - Block 2 MP Block/ Block 8 IPB, Chil Plt (CPL) Modules - Table1 - Configuration	TNE CE / NON-CE	Dry
				Section: 6. System Config Parameter, Ovens - Block 2 MP Block/ Block 8 IPB, Chil Plt (CPL) Modules - Table1 - Configuration	TBC	BARC
				Section: 6. System Config Parameter, Ovens - Block 2 MP Block/ Block 8 IPB, Chil Plt (CPL) Modules - Table1 - *	* Post SED TAQ and NIKON = 22.2C AND ASML = 22.0C	* PostSED and NIKON = 22.2C AND ASML = 22.0C
				Section: 6. System Config Parameter, Ovens - Block 2 MP Block/ Block 3 PR Block/ Block 7 MP Block, S-CPL (SCPL) Module Table2 - Configuration	TNE CE/NTD 6x6 IM	Dry CE / EUV6x6 Imm / 6x6 PostSED
				Section: 6. System Config Parameter, Ovens - Block 2 MP Block/ Block 3 PR Block/ Block 7 MP Block, S-CPL (SCPL) Module Table2 - Configuration	NTD 4x4 IM TNE NON-CE	Dry NON-CE 4x4 Imm / 4x4 PostSED
				Section: 6. System Config Parameter, Ovens - Block 2 MP Block/ Block 3 PR Block/ Block 7 MP Block, S-CPL (SCPL) Module Table2 - Configuration	NTD 4x4 IMTNE NON-CENTD 6x6 IMTNE CE	Dry / EUV / Imm / PostSED
				Section: 6. System Config Parameter, Ovens - Block 2 MP Block/ Block 3 PR Block/ Block 7 MP Block, S-CPL (SCPL) Module Table2 - Configuration	NTD 6x6 IM	6x6 Imm6x6 PostSED
				Section: 6. System Config Parameter, Ovens - Block 2 MP Block/ Block 3 PR Block/ Block 7 MP Block, S-CPL (SCPL) Module Table2 - Configuration	TBC/TBE	BARC
				Section: 6. System Config Parameter, Ovens - Block 2 MP Block/ Block 3 PR Block/ Block 7 MP Block, S-CPL (SCPL) Module Table2 - Configuration	NTD 4x4 IM TNE NON-CE NTD 6x6 IM TBC	BARC Dry Non-CE EUV 4x4 Imm 4x4 PostSED
				Section: 6. System Config Parameter, Ovens - Block 2 MP Block/ Block 3 PR Block/ Block 7 MP Block, S-CPL (SCPL) Module Table2 - Configuration	NTD 4x4 IM TNE NON-CE TNE CE NTD 6x6 IM TBC/TBE	All ProV
				Section: 8. System Parameter - Exposure Interface	Option Linked Litho Application [Not Present for TBC]	Option Linked Litho Application [Not Present for BARC and 6x6 PostSED, Invalic for 4x4 PostSED]
				Section: 8. System Parameter - Exposure Interface	Option Linked Litho Alarm Auto Recovery [Not Present for TBC]	Option Linked Litho Alarm Auto Recovery [Not Present for BARC and 6x6 PostSED]
				Section: 8. System Parameter - Exposure Interface	Option Linked Litho Alarm Auto Timer [Not Present for TBC]	Option Linked Litho Alarm Auto Timer [No Present for BARC and 6x6 PostSED]
				Section: 8. System Parameter - Exposure Interface	Option Linked Litho No Wafer Exposure Lot End [Not Present for TBC]	Option Linked Litho No Wafer Exposure Lot End [Not Present for BARC and 6x6 PostSED]
				Section: 14. EC SYSTEM Setting - Item Level Settings - LOG - Linked Litho Log - Item Lev	User Service	User service ***
				Section: 14. EC SYSTEM Setting - Auto logout Settings - Auto logout time settir	30 min	60 min
2/24/2016	2.03	K. Proctor	P. Ito	Cover / ACRD tools / Software version	100.0.58.204	100.0.58.207
				Cover / CRD tools / Software version	100.0.58.204	100.0.58.207
				Cover / ACRD tools / Sub Operation Panel version	5.01.35	5.01.37
				Cover / CRD tools / Sub Operation Panel version	5.01.35	5.01.37
				Cover / Teaching Version	1.18	1.22
				Cover / Temperature Version	1.24	1.28
				Section: 4. System Configuration Parameter, Arm - Block 1 CS Block - Transfer Arm Control Parameter - Specifying Wafer Cou	NA	Added
				Section: 4. System Configuration Parameter, Arm - Block 1 CS Block - Transfer Arm Control Parameter - Wafer Count for Maint	NA	Added
				Section: 4. System Configuration Parameter, Arm - Block 2, 7 MP Block - Transfer Arm Control Parameter - Specifying Waf Count for Maintenance Notification '	NA	Added
				Section: 4. System Configuration Parameter, Arm - Block 2, 7 MP Block - Transfer Arm Control Parameter - Wafer Count for Ma	NA	Added
				Section: 4. System Configuration Parameter, Arm - Block 3, 4, 5, 6 PR Block - Transfer Arm Control Parameter - Specifyir Wafer Count for Maintenance Notification '	NA	Added
				Section: 4. System Configuration Parameter, Arm - Block 3, 4, 5, 6 PR Block- Transfer Arm Control Parameter - Wafer Count fo	NA	Added
				Section: 4. System Configuration Parameter, Arm - Block 8 IPB-Immersion Configuration ONLY - Transfer Arm Contr Parameter - Specifying Wafer Count for Maintenance Notification	NA	Added
				Section: 4. System Configuration Parameter, Arm - Block 8 IPB-Immersion Configuration ONLY- Transfer Arm Control Parame	NA	Added
				Section: 5.1.Sys Config Prm Spinners (DEV) - TAX DEV NOZZLE 5 - Dispense Monitoring Control Data tab	NA	Added
				Section: 5.1.Sys Config Prm Spinners (DEV) - FIRM 1 - IF PRESENT - Automatic Air Vent tabl	NA	Added
				Section: 5.1.Sys Config Prm Spinners (DEV) - Dispense Parameter - Local Nozzle - DEV3(Local Arm) / DEV9(Local Arm)* BEVEL RINSE V2 / RINSE1 / BACK RINSE1 *TAX Only - CRF Setting** - Commer	**For CRF enabled tool	** DEV3(Local Arm) and RINSE1 of CRF enabled tool
				Section: 5.1.Sys Config Prm Spinners (DEV) - Dispense Parameter - Local Nozzle - DEV3(Local Arm) / DEV9(Local Arm)* BEVEL RINSE V2 / RINSE1 / BACK RINSE1 *TAX Only - Interval for Circulation** tabl	NA	Added
				Section: 5.1.Sys Config Prm Spinners (DEV) - Dispense Parameter - Local Nozzle - DEV3(Local Arm) / DEV9(Local Arm)* BEVEL RINSE V2 / RINSE1 / BACK RINSE1 *TAX Only - CRF Setting* - Commer	*For CRF enabled tool	* DEV3(Local Arm) and RINSE1 of CRF enabled tool
				Section: 5.2.Sys Config(COT/BCT/TCT) - Reload Initial Pressure and Pump Return Vent Initial Pressure Settings - Toc	TAX	TAX430/431
				Section: 5.2.Sys Config(COT/BCT/TCT) - Reload Initial Pressure and Pump Return Vent Initial Pressure Settings - TAX432/433	NA	Added
				Section: 5.2.Sys Config(COT/BCT/TCT) - Interval for Circulation**** comme	**** For CRF enabled too	**** RRC NOZZLE1 of CRF enabled too

Software FPD Revision History (4/9)

Date	Rev.	Approval		Location	Old	New
		INTEL	TEL			
				Section: 5.2.Sys Config(COT/BCT/TCT) -CUP EXH. - Process Recipe Attribut	Invalid	Invalid*
				Section: 5.2.Sys Config(COT/BCT/TCT) -CUP EXH. - Process Recipe Attribute - Comme	NA	* Valid for TNU
				Section: 5.4.Sys Config(BST) - RINSE 1 [49] - Dispense Monitoring Control Data - Set Flow Ra	150	200
				Section: 5.4.Sys Config(BST) - Cup temp./ Motor flange temp./ Cup humidity - Controller TM150-CHILLER / THC - Controll ID - Cup temp	CF9010-F400	TM150-THC *
				Section: 5.4.Sys Config(BST) - Cup temp./ Motor flange temp./ Cup humidity - Controller TM150-CHILLER / THC - Controll ID - Cup Humidity	CF9010-F400	TM150-THC *
				Section: 5.4.Sys Config(BST) - Cup temp./ Motor flange temp./ Cup humidity - Controller TM150-CHILLER / THC - Monitori Type - Cup temp	Use point Control	Use point Control **
				Section: 5.4.Sys Config(BST) - Cup temp./ Motor flange temp./ Cup humidity - Controller TM150-CHILLER / THC - Monitori Type - Cup Humidity	Use point Read	Use point Control **
				Section: 5.4.Sys Config(BST) - Cup temp./ Motor flange temp./ Cup humidity - Controller TM150-CHILLER / THC - Sour	NA	Added
				Section: 5.4.Sys Config(BST) - Cup temp./ Motor flange temp./ Cup humidity - Controller TM150-CHILLER / THC - Sour	NA	Added
				Section: 5.4.Sys Config(BST) - Cup temp./ Motor flange temp./ Cup humidity - Controller TM150-CHILLER / THC - * Comment	NA	* TAX430/431 : CF9010-F400
				Section: 5.4.Sys Config(BST) - Cup temp./ Motor flange temp./ Cup humidity - Controller TM150-CHILLER / THC - ** Comment	NA	** TAX430/431 : Use point read
				Section: 5.4.Sys Config(BST) - Cup temp./ Motor flange temp./ Cup humidity - Controller TM150-CHILLER / THC - *' Comment	NA	*** TAX430/431 8-1 Only
2/24/2016	2.03	K. Proctor	P. Ito	Section: 5.4.Sys Config(BST) - Spinner Arm Control Data - Theta-axis Reference Point [Pulse] - Rinse Ar	30567	Tool Specific
				Section: 5.4.Sys Config(BST) - Spinner Arm Control Data - Theta-axis Reference Point [Pulse] - Brush Ar	31788	Tool Specific
				Section: 5.4.Sys Config(BST) - Spinner Arm Control Data - Theta-axis Reference Point [Deg] - Rinse Ar	45.85	Tool Specific
				Section: 5.4.Sys Config(BST) - Spinner Arm Control Data - Theta-axis Reference Point [Deg] - Brush Ar	127.15	Tool Specific
				Section: 5.4.Sys Config(BST) - Spinner Arm Control Data - Z-axis Reference Point (Cylinder) - Brush Ar	12196	NA
				Section: 5.4.Sys Config(BST) - Spinner Arm Control Data - Z-axis Reference Point (Motor)[puls	NA	Added
				Section: 5.4.Sys Config(BST) - Spinner Arm Control Data - Z-axis Reference Point (Motor)[puls	NA	Added
				Section: 5.4.Sys Config(BST) - Recipe Position - Home Position - Rinse Arm - Theta Positic	-767	Tool Specific
				Section: 5.4.Sys Config(BST) - Recipe Position - Center - Brush Arm - Z Position-MOTO	680	Tool Specific
				Section: 5.4.Sys Config(BST) - Recipe Position - Bath - Brush Arm - Theta Positic	-33875	Tool Specific
				Section: 5.4.Sys Config(BST) - Recipe Position - Bath - Brush Arm - Z Position-MOTO	1040	Tool Specific
				Section: 5.4.Sys Config(BST) - Recipe Position - Bath - Brush Change - Z Position-MOTO	1040	Tool Specific
				Section: 5.4.Sys Config(BST) - Recipe Position - PAD Arr	Theta Position	X Position (Offset)
				Section: 5.4.Sys Config(BST) - Recipe Position - Center - PAD Arm - X Position (Offse	114980	11980
				Section: 8. System Parameter - Others(cont) - Option Upper Limit of Wafer Spin Speed in XDR N2 Dispense Step *****	NA	Added
				Section: 8. System Parameter - Dummy Dispense - Option Start Time of Periodic Resist Return Operation during Wafer Transf Stop *	NA	Added
				Section: 10.BST Control Parameter - BST Module Parameter - Spin Motor Info. Tabl	NA	Added
				Section: 14. EC SYSTEM Setting - Network configuration - Interface setting - Interface Nar	pro0	pro0/eke0
				Section: 14. EC SYSTEM Setting - Network configuration - Interface setting - Interface Nar	pro1	pro1/eke1
				Section: 15. Data Collect Condition Editor - Condition Name	[Time (2sec)]	[Time (2sec),Env(60s)]
				Cover / Teaching Version	1.22	1.23
				Section: 4. System Configuration Parameter, Arm - Each arm - Transfer Arm Control Parameter - Specifying Wafer Count fi Maintenance Notification	Exist	Deleted (Moved to 1276 FPD)
				Section: 4. System Configuration Parameter, Arm - Each arm - Transfer Arm Control Parameter - Wafer Count for Maintenan Notification	Exist	Deleted (Moved to 1276 FPD)
				Section: 5.1.Sys Config Prm Spinners (DEV) - TAX DEV NOZZLE 2 - Tabl	Exist	Deleted (Moved to 1276 FPD)
				Section: 5.1.Sys Config Prm Spinners (DEV) - TAX DEV NOZZLE 5 - Tabl	Exist	Deleted (Moved to 1276 FPD)
				Section: 5.1.Sys Config Prm Spinners (DEV) - TAX DEV NZL.5 Sub - Tabl	Exist	Deleted (Moved to 1276 FPD)
				Section: 5.1.Sys Config Prm Spinners (DEV) - TAX DIW NZL--[5] Sub - Tabl	Exist	Deleted (Moved to 1276 FPD)
5/2/2016	3.00	K. Proctor	P. Ito	Section: 5.1.Sys Config Prm Spinners (DEV) - Block Arm - Left/ Block Arm - Right/ Module Arm - Left -Recipe position - FIRM Table	Exist	Deleted (Moved to 1276 FPD)
				Section: 5.1. System Config Parameter, Spinners (DEV) - NTD FILTDRAIN1*/2*/3* - Sovent-D supply System - Post-Refill Ve Time	1.0	3.0
				Section: 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - Reload Initial Pressure and Pump Return Vent Initial Pressu Settings - TAX	Exist	Deleted (Moved to 1276 FPD)
				Section: 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - Table for Temperature Control Method [TA	Exist	Deleted (Moved to 1276 FPD)
				Section: 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - Table for Channel No. - TA	Exist	Deleted (Moved to 1276 FPD)
				Section: 5.3. System Config Parameter, Spinners (PIR/SRS) - Module Arm - Left - Recipe position - Dispense 4 - Y positic	0.00	-130.00
				Section: 5.4. System Config Parameter, Spinners (BST	Exist	Deleted (Moved to 1276 FPD)
				Section: 13. EC SYSTEM Setting - Item Level Settings - MAINTENANCE - Firmware Ver. Monit	Service	User Service
				Cover / ACRD tools / Software version	ACRD tools	Dual Resist Arm Systems
				Cover / Except for BARC and Dry tools / Software versior	100.0.58.207	100.0.58.208
				Cover / CRD tools / Software version	CRD tools	Single Resist Arm systems
				Section: 3. System Configuration Parameter, System - Israel : Barometric pressu	NA	1000.00hPa
				Section: 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - RESIST# Supply System [Tool Specific] - RefillWatchTime	RefillWatchTime	Refill Monitoring Time
				Section: 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - RESIST# Supply System [Tool Specific]	NA	RESIST# Supply System [Tool Specific] : POR
7/22/2016	3.01	K. Proctor	H.Nagai	Section: 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - RESIST# Supply System [Tool Specific]	NA	RESIST# Supply System [Tool Specific] : M ACRD Package
				Section: 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - RESIST# Supply System [Tool Specific] : M-ACRD Packag The Number of Wafers to be Processe	NA	50
				Section: 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - RESIST# Supply System [Tool Specific] : M-ACRD Packag Refill Monitoring Time	NA	30.0
				Section: 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - Reload Initial Pressure and Pump Return Vent Initial Pressu Setting	TNU/TAS/TNK/TSH/TSL	Immersion (7×3) and TSL/TSH
				Section: 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - Reload Initial Pressure and Pump Return Vent Initial Pressure Setting	NA	Immersion (6×4)

Software FPD Revision History (5/9)

Date	Rev.	Approval		Location	Old	New
				Section: 5.1. System Config Parameter, Spinners (DEV) - Block 3 PR Block, Developers [3-1] - [3-8] for 8x0 PTD - title	Block 3 PR Block, Developers [3-1] - [3-8] for PTD DRY-CE	Block 3 PR Block, Developers [3-1] - [3-8] for 8x0 PTD
				Section: 5.1. System Config Parameter, Spinners (DEV) - DEV NOZZLE2--> TNE/TNG Config ONLY LD Nozzle - title	DEV NOZZLE2--> TNE Config ONLY LD Nozzle	DEV NOZZLE2--> TNE/TNG Config ONLY LD Nozzle
				Section: 5.1. System Config Parameter, Spinners (DEV) - Block 3 PR Block, Developers [3-5] -[3-8] W/ NTD for 4x4 NTD [TAC	Block 3 PR Block, Developers [3-5] -[3-8] W/ NTD [TAQ/TNQ]	Block 3 PR Block, Developers [3-5] -[3-8] W/ NTD for 4x4 NTD [TAQ/TNQ]
				Section: 5.1. System Config Parameter, Spinners (DEV) - NTD FILTDRAIN 1*/2*/3* - CRF Setting	NA	Added
				Section: 5.1. System Config Parameter, Spinners (DEV) - NTD FILTDRAIN 1*/2*/3* - Interval for Circulatic	NA	Added
				Section: 5.1. System Config Parameter, Spinners (DEV) - NTD RFILTDRAIN 1*/2* - CRF Settir	NA	Added
				Section: 5.1. System Config Parameter, Spinners (DEV) - NTD RFILTDRAIN 1*/2* - Interval for Circulatic	NA	Added
				Section: 5.1. System Config Parameter, Spinners (DEV) - NTD FILTDRAIN 1*/2*/3* / NTD-RFILTDRAIN 1*2* - Dispens Monitoring Control Data - Matrix	NA	Added
				Section: 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - Block 4,5,6 PR Block, Coater CRD PUMP ONLY - Dispens Paramter - Shared Nozzle - RESIST NOZZLE# - Filter Vent Setting - Filter Vent Valid, Invali	See Pro-V BKMspec for details	Invalid
				Section: 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - Block 4,5,6 PR Block, Coater ACRD tool ONLY - Dispens Paramter - Shared Nozzle - RESIST NOZZLE# - RESIST# Supply System [Tool Specific] : M-ACRD Package - The Number of Wafers to be Processed - Setting	50	See table below
				Section: 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - Block 4,5,6 PR Block, Coater ACRD tool ONLY - Dispens Paramter - Shared Nozzle - RESIST NOZZLE# - RESIST# Supply System [Tool Specific] : M-ACRD Package - The Number of Wafers to be Processed - Table	NA	Added
2016/09/XX	4.00	K. Proctor	P. Ito /H.Nagai	Section: 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - Reload Initial Pressure and Pump Return Vent Initial Pressu Settings - Immersion (7x3) - title	Immersion (7×3) and TSL/TSH	Immersion (7×3)
				Section: 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - Reload Initial Pressure and Pump Return Vent Initial Pressu Settings - TAQ/TNQ - title	TAQ/TNQ	TAQ
				Section: 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - Reload Initial Pressure and Pump Return Vent Initial Pressu Settings - THYlc	NA	Added
				Section: 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - Reload Initial Pressure and Pump Return Vent Initial Pressu Settings - THYli and TAQhb	NA	Added
				Section: 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - Shared Nozzle - Dispense Monitoring Control Data - RRC Nozzle1 - Calibration 1	[POS]0.85 - 0.99 [PGMEA]1.00 - 1.15	[POS]0.85 - 0.99 [PGMEA]1.00 - 1.15 [H2O]TBD
				Section: 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - Local Nozzle - Dispense Monitoring Control Data - EBR 1- Calibration 1	[POS]0.80 - 0.99 [PGMEA]1.00 - 1.15	[POS]0.80 - 0.99 [PGMEA]1.00 - 1.15 [H2O]TBD
				Section: 6. System Config Parameter, Ovens - Block 3/ Block 4/ Block 5/ Block6 PR Block, Chil PHP,PRP (CPHP,CPRI Modules - Control Table Data (Temperature Range 55*, 60*, 70, 100, 125, 150, 175*	Temperature Range 55, 60, 70, 100, 125, 150, 175)	(Temperature Range 55*, 60*, 70, 100, 125, 150, 175*)
				Section: 6. System Config Parameter, Ovens - Block 3/ Block 4/ Block 5/ Block6 PR Block, Chil PHP,PRP (CPHP,CPRI Modules - Control Table Data (Temperature Range 55*, 60*, 70, 100, 125, 150, 175*) - Commer	NA	* Post SED Only
				Section: 6. System Config Parameter, Ovens - Block 5/ Block6 PR Block, [CGCH] Chil. General Heat Chamber HP Modules Controller REX-B879 - Loop Break Alarm Function Valid/Invali	NA	Added
				Section: 6. System Config Parameter, Ovens - Block 2 MP Block/ Block 8 IPB, Chil Plt (CPL) Modules - Table1 - 2-16 CPL - Configuration	Dry Non-CE 4x4 Imm 4x4 PostSED	Dry Non-CE 4x4 Imm 8x0 TAQ
				Section: 6. System Config Parameter, Ovens - Block 2 MP Block/ Block 3 PR Block/ Block 7 MP Block, S-CPL (SCPL) Modules Table2 - 2-23 SCPL - Configuration	Dry CE 6x6 Imm / 6x6 PostSED	Dry CE 6x6 Imm / 8x0 THY
				Section: 6. System Config Parameter, Ovens - Block 2 MP Block/ Block 3 PR Block/ Block 7 MP Block, S-CPL (SCPL) Modules Table2 - 2-23 SCPL - Configuration	Dry NON-CE 4x4 Imm / 4x4 PostSED	Dry CE 6x6 Imm / 8x0 TAQ
				Section: 6. System Config Parameter, Ovens - Block 2 MP Block/ Block 3 PR Block/ Block 7 MP Block, S-CPL (SCPL) Modules Table2 - 2-33/34/35 SCPL - Configuration	6x6 Imm 6x6 PostSED	6x6 Imm 8x0 THY
				Section: 6. System Config Parameter, Ovens - Block 2 MP Block/ Block 3 PR Block/ Block 7 MP Block, S-CPL (SCPL) Modules Table2 - 7-33 SCPL - Configuration	Dry NON-CE A/ 4x4 Imm/ 4x4 PostSED	Dry NON-CE A/ 4x4 Imm / 8x0 TAQ
10/12/2016	4.00	K. Proctor	P. Ito /H.Nagai	Section: 6. System Config Parameter, Ovens - Block 2 MP Block/ Block 3 PR Block/ Block 7 MP Block, S-CPL (SCPL) Modules Table2 - 7-34/35 SCPL - Configuration	BARC Dry Non-CE 4x4 Imm / 4x4 PostSED	BARC Dry Non-CE 4x4 Imm / 8x0 TAQ
				Section: 6. System Config Parameter, Ovens - Block 4 PR Block, C.ADH (ADH) Modules - Controller REX-B875 - Loop Brea Alarm Function Valid/Invali	NA	Added
				Section: 8. System Parameter - Bare-Si Thickness - Option Base Barometric Pressue	* Portland: 1010.00hPa * Phoenix: 970.00hPa * Albuquerque: 840.00hPa * Ireland: 1010.00hPa	* Portland/Ireland : 1010.00hPa * Phoenix: 970.00hPa * Albuquerque: 840.00hPa * Israel: 1000.00hPa
				Section: 8. System Parameter - Others(cont) - Option Dispense Line Monitc	NA	Added
				Section: 8. System Parameter - Others(cont) - Option Dispense Line Monitor - Commen	NA	******** = Enabled PPM software tool
				Section: 11. EC Display Overview - Screen Tree - MAINTENANCE - Firmware Ver. Monitc	NA	Added
11/11/2016	4.01	K. Proctor	H.Nagai	Section: 5.1. System Config Parameter, Spinners (DEV) - NTD FILTDRAIN1* 2* 3* / NTD-RFILTDRAIN1* 2* - Set Flow Rate	0	75
				Section: 5.2. 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - Local Nozzle - E.B.R.1/ BACK RINSE1/ BEVEI RINSE V2/ EXH DUCT CLEAN -SOLVENT 1 Supply System - [Tool Specific] - Return Mode Setting *	NA	Added (Valid)
				Section: 5.2. 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - Local Nozzle - E.B.R.1/ BACK RINSE1/ BEVEI RINSE V2/ EXH DUCT CLEAN -SOLVENT 1 Supply System - CRF Setting	NA	Added
1/23/2017	4.02	K. Proctor	H.Nagai	Section: 5.1. System Config Parameter, Spinners (DEV) - NTD RFILTDRAIN1* 2*	NTD RFILTDRAIN1* 2*	NTD RFILTDRAIN1* 2* 3*
				Section: 5.1. System Config Parameter, Spinners (DEV) - NTD FILTDRAIN1* 2* 3* / NTD-RFILTDRAIN1* 2* 3* - Filte Replacement Sequence (3	NA	Added sequence recipe
				Section: 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - The Number of Wafers to be Processed - PostSE	50	25
				Section: 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - Out-Filter Setting - Out-Filter Vent Valid In PJ Dumr	NA	Invalid
				Section: 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - Out-Filter Setting - Out-Filter Vent Interv	NA	300
				Section: 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - THYlc - Reload Initial Pressure and Pump Return Vent Initi Pressure Settings - A	See Rev.4.01	Aligned with other specification
				Section: 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - THYli and TAQhb - Reload Initial Pressure and Pump Retu Vent Initial Pressure Settings - A	See Rev.4.01	Aligned with other specification
				Section: 8. System Parameter - Exposure Interface - Exposure ARP Settin	Invalid	***
2/6/2017	4.03	K. Proctor	H.Nagai	Cover / All tools except Dry tool - Software version	NA	100.0.58.211
				Cover / All tools except Dry tool - Sub Operation Panel version	NA	5.01.39
				Section: 6. System Config Parameter, Ovens - Block 4 PR Block, C.ADH (ADH) Modules - Control Table Data list - Temperature Range4	Valid	Deleted

Software FPD Revision History (6/9)

Date	Rev.	Approval		Location	Old	New
		INTEL	TEL			
				Cover / All tools except Dry tool - Software version	100.0.58.211	100.0.58.213
				Section 5.1 System Config Parameter, Spinners (DEV) - Local Nozzle - ADR N2 - Unexpected Pressure Watch - Unexpecte Pressure Watch Vaild - Added	NA	Valid
				Section 5.1 System Config Parameter, Spinners (DEV) - Local Nozzle - ADR N2 - Unexpected Pressure Watch - Delay Tim Before Unexpected Press Watch - Added	NA	3.0
				Section 5.1 System Config Parameter, Spinners (DEV) - XDR N2 - Unexpected Pressure Watch -Unexpected Pressure Watc Vaild - Added	NA	Valid
				Section 5.1 System Config Parameter, Spinners (DEV) - XDR N2 - Unexpected Pressure Watch - Delay Time Before Unexpecte Press Watch - Added	NA	3.0
				Section 5.1 System Config Parameter, Spinners (DEV) - Block Arm - Left/ Block Arm - Right/ Module Arm – Left - Hon Position	NA	Added Home position table
				Section 5.1.System Config Parameter, Spinners (DEV) - Block Arm - Left/ Block Arm - Right/ Module Arm – Left - Referen Point	NA	Added Reference Point table
				Section 5.2. System Config Parameter, Spinners (COT/BCT/TCT) – Reference Poi	NA	Added Reference Point tabl
				Section 5.3. System Config Parameter, Spinners (PIR/SRS) – Module Arm – Left - Home Positi	NA	Added Home position tabl
				Section 5.3. System Config Parameter, Spinners (PIR/SRS) – Module Arm – Left - Reference Poi	NA	Added Reference Point tabl
				Section 5.2 System Config Parameter, Spinners (COT/BCT/TCT) - Block 4,5,6 PR Block, Coater ACRD Tool ONLY - Out-Filter Setting - Out-Filter Vent Valid In PJ Dummy	Invalid	Valid
				Section 5.2 System Config Parameter, Spinners (COT/BCT/TCT) - Block 4,5,6 PR Block, Coater ACRD Tool ONLY - Out-Filt Setting - Out-Filter Vent Interva	300	See recipe spec
				Section 5.2 System Config Parameter, Spinners (COT/BCT/TCT) - Block 4,5,6 PR Block, Coater ACRD Tool ONLY - Out-Filt Setting - Pump Out-Filter Initial Pressure - Adde	NA	2.0 kPa
				Section 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - Block Arm - Left /Right / Module Arm – Left - Spin Arm Parameter - Exh Exclusive Control Near Ready Time - *	The parameter only exist on TNU tools	The parameter only exist on dual arm tracks
				Section 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - Spin Motor Parameter - Spin Motor Control Data - Rinse Ar No.	L Arm	None
6/9/2017	4.04	K. Proctor	H.Nagai	Section 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - Spin Motor Parameter - Spin Motor Control Data - Speed Rinse	100.00	1200.00
				Section 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - Spin Motor Parameter - Spin Motor Control Data Acceleration at Rinse	1000.00	10000.00
				Section 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - Spin Motor Parameter - Spin Motor Control Data - Rinse Time	5.00	15.00
				Section 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - Spin Motor Parameter - Spin Motor Control Data - Spin O Acceleration	1000.00	10000.00
				Section 6. System Config Parameter, Ovens – Table 1 – 2-23 SCPI	NA	Added TNG Table
				Section 6. System Config Parameter, Ovens – Table 1 – 2-23 SCPI	NA	Added HMV TNE Table
				Section 6. System Config Parameter, Ovens - Block 5/ Block6 PR Block, [CGCH] Chil. General Heat Chamber HP Modules Control Table Data list - Temp. Range 6	220.00	Deleted
				Section 6. System Config Parameter, Ovens - Block 5/ Block6 PR Block, [CGCH] Chil. General Heat Chamber HP Modules Control Table Data list - Temp. Range 8	240.00	Deleted
				Section 6. System Config Parameter, Ovens – Block 4 PR Block, C.ADH (ADH) Modules BUFFER BUBBLING - Controller REX-B875 – Setting Determination Time	3.0s	30.0s
				Section 10. Adjustment Tool Parameter - 4-1 [Resist Tracks]or 4-11 [BARC Tracks	4-11 [BARC Tracks]	4-42 [BARC Tracks]
				Section 10. Adjustment Tool Parameter - 4-1 [Resist Tracks]or 4-42 [BARC Tracks] - ForkPosition[0]	-	Separated Resist Tracks and BARC Tracks
				Section 10. Adjustment Tool Parameter - 4-1 [Resist Tracks]or 4-42 [BARC Tracks] - ForkPosition[1]	-	Separated Resist Tracks and BARC Tracks
				Section 10. Adjustment Tool Parameter - 4-1 [Resist Tracks]or 4-42 [BARC Tracks] - ForkPosition[0] for BARC Tracks - Position Y	Tool Specific	249865
				Section 10. Adjustment Tool Parameter - 4-1 [Resist Tracks]or 4-42 [BARC Tracks] - ForkPosition[1] for BARC Tracks - Position Y	Tool Specific	249865
				Section 10. Adjustment Tool Parameter - 4-1 [Resist Tracks]or 4-42 [BARC Tracks] - ForkPosition[0] for BARC Tracks - Position Th	0	Tool Specific
				Section 10. Adjustment Tool Parameter - 4-1 [Resist Tracks]or 4-42 [BARC Tracks] - ForkPosition[1] for BARC Tracks - Position Th	0	Tool Specific
				Section 14. Data Collect Condition Editor - Condition Name: [Time (2sec),Env(60sec)] – Transfer Conditi	847	887
				Section 4. System Configuration Parameter, Arm – X axis Position & Offset (DRY) – 8-0 IR.	ISHU	CPL/TRS/RSM/ISHU
				Section 4. System Configuration Parameter, Arm – X axis Position & Offset (DRY) – 8-0 IRA - CPL/TRS/RSM/ISHU - X Sen Position	CCD Center	CCD Center – 27 pulse
				Section 4. System Configuration Parameter, Arm – X axis Position & Offset (DRY) – 8-0 IRA - CPL/TRS/RSM/ISHU - Receive Position	CCD Center	CCD Center + 341 pulse
				Section 4. System Configuration Parameter, Arm – X axis Position & Offset (DRY) – 8-0 IRA - CPL/TRS/RSM/ISHU - Offset (receive – X Send)	0 pulse	368 pulse
				Section 4. System Configuration Parameter, Arm - Y, Z and Theta axis Offset (DRY) – ISHI	ISHU	CPL/TRS/ISHU
7/7/2017	4.05	K. Proctor	H.Nagai	Section 4. System Configuration Parameter, Arm - Y, Z and Theta axis Offset (DRY) – RSM - Adde	NA	RSM
				Section 5.1. System Config Parameter, Spinners (DEV) – Local Nozzle – ADR1 N2 – Unexpected Pressure Watch - Added comment with*	NA	*ADR N2 Unexpected Pressure Watch table as present only on tools with XDR upgrade.
				Section 5.1. System Config Parameter, Spinners (DEV) - DEV.SOLU.2 Supply System / N.T.DEV SOLUTION1 Supply System N.T.DEV SOLUTION2 Supply System / SOLVENT2 Supply System - [Tool Specific]- DEV9 (Local Arm	DEV9 (Local Arm)	Deleted
				Section 5.1. System Config Parameter, Spinners (DEV) - Dispense Monitoring Control Data - DEV9 (Local Arm	DEV9 (Local Arm)	Deleted
				Section 6. System Config Parameter, Ovens - Block 2 MP Block/ Block 3 PR Block/ Block 7 MP Block, S-CPL (SCPL) Modules – Table 2 – Non-CE TNE / 4x4 Imm / 8x0 TAQ – 7-33 SCPL - Added HVM TNI	Non-CE TNE / 4x4 Imm / 8x0 TAQ	Non-CE TNE / HVM TNE / 4x4 Imm / 8x0 TAQ
				Cover / All tools except Dry tool - Software version - Marge	100.0.58.207	100.0.58.213
8/4/2017	4.06	K. Proctor	H.Nagai	Section 5.1. System Config Parameter, Spinners (DEV) - Local Nozzle - ADR N2 - Unexpected Pressure Watch - *Comment	*ADR N2 Unexpected Pressure Watch table as present only on tools with XDR upgrade.	*Only Available on tool with Version 100.0.58.211 or Later
				Section 5.2. System Config Parameter, Spinners (COT) -RRC FILTDRAIN1* - SOLVENT-B/C Supply Syste	SOLVENT-B/C Supply System	SOLVENT-A/B/C Supply System
10/2/2017	4.07	K. Proctor	H.Nagai	Section 5.2. System Config Parameter, Spinners (COT) -RRC FILTDRAIN1* - SOLVENT-B/C Supply System - Chemical Name	SOLVENT-B/C Supply System	SOLVENT-A/B/C Supply System
				Section 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - Dispense Monitoring Control Data - Add	NA	Added
				Section 8. System Parameter - Wafer Collection - Real-time Save Recovery Int	Invalid	Valid
				Cover page. Temperature Versior	1.28	1.29
				Section 2. Start Up Setting - Comment	*= Not present on BARC & Invalid for PostSED tracks	*= Not present on BARC
				Section 4. System Configuration Parameter, Arm - Fork1 and 2	DEV/TCT/COT/BCT/NTD	DEV/COT/BCT/NTD
				Section 4. System Configuration Parameter, Arm - Z-axis Multistep Movemer	DEV/TCT/COT/BCT/NTD	DEV/COT/BCT/NTD
				Section 4. System Configuration Parameter, Arm - Z-axis Multistep Movement (Receive) Softlanding function installed tool only	DEV/TCT/COT/BCT/NTD	DEV/COT/BCT/NTD
				Section 4. System Configuration Parameter, Arm - Z-axis Multistep Movement (Send) Softlanding function installed tool or	DEV/TCT/COT/BCT/NTD	DEV/COT/BCT/NTD
				Section 5.1. System Config Parameter, Spinner (DEV) - Dispense Parameter - Shared Nozzle - Dispense Monitoring Control Data Set Flow Rate	*500 for PostSED	Removed
12/14/2017	4.08	K. Proctor	H.Nagai	Section 5.1. System Config Parameter, Spinner (DEV) - Dispense Parameter - DEV NZL.4 Sub - Dispense Monitoring Contr Data - Set Flow Rate	*400 for PostSED	Removed
				Section 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - AL	All categories	Removed all TCT and PostSED item
				Section 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - Bottle Empty Detection Setting RefillStopSensorDetectFixTim	0.1	1.0
				Section 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - Solvent Bath [Water Base TCT Modul	Solvent Bath Settings	Removed
				Section 5.3. System Config Parameter, Spinners (PIR/SRS) - AL	All categories	Removed all TCT and PostSED item
				Section 6. System Config Parameter, Ovens - ALI	All categories	Removed all TCT and PostSED item
				Section 8. System Parameter - Exposure Interface - PostSED setting	PostSED	Removed
				Section 13. EC SYSTEM Setting - Equipment mode change - *comme	LOCAL For BARC and PostSED tracks	LOCAL For BARC
				Section 13. EC SYSTEM Setting - Equipment mode change2 - comme	FOR BARC and PostSED tracks	FOR BARC

Software FPD Revision History (7/9)

Date	Rev.	Approval		Location	Old	New
		INTEL	TEL			
				5.1 System Config. Parameter, Spinner (DEV) - Remove Dummy Dispense Attribute line from BATH EXH. CM	Exist	Removed
				5.1 System Config. Parameter, Spinner (DEV) - Format change for CRF setting and Interval for Circulation tabl	Indented in Column C	Moved to Column E
				5.1 System Config. Parameter, Spinner (DEV) - Update to BackRinse discription in supply system tab	Back Rinse	Back Rinse 1
				5.1 System Config. Parameter, Spinner (DEV) - Removed the astrisk comments under the supply system table	*= Only Present IFF-S tools **= Only Present CRF tools	Removed
				5.1 System Config. Parameter, Spinner (DEV) - Removed the astrisk from Return mode settin	Return Mode Setting *	* Removed
				5.1 System Config. Parameter, Spinner (DEV) - DEV3(Local Arm) / BEVEL RINSE V2 / RINSE1 / BACK RINSE1 - Remov Comment and astrisks from CRF Setting Table - ** DEV3(LocalArm) and RINSE1 of CRF enabled tool and the astrisk from CRF Setting Table	CRF Setting * and ** DEV3(LocalArm) and RINSE1 of CRF enabled tool	* Removed and Comment Removed under the CRF Table
				5.1 System Config. Parameter, Spinner (DEV) - Update to BackRinse discription in Dispense Monitoring Control Da	Back Rinse	Back Rinse 1
				5.1 System Config. Parameter, Spinner (DEV) - Format change for IFF-S Specific tit	Indented in Column A	Moved to Column E
				5.1 System Config. Parameter, Spinner (DEV) - IFF-S Supported Nozzle Chang	24	Tool Specific
				5.1 System Config. Parameter, Spinner (DEV) - NTD FILTDRAIN1*/2*/3* - Remove Comment and astrisks from ** DEV3(LocalArm) and RINSE1 of CRF enabled tool and the astrisk from CRF Setting Table	CRF Setting * and ** DEV3(LocalArm) and RINSE1 of CRF enabled tool	* Removed and Comment Removed under the CRF Table
				5.1 System Config. Parameter, Spinner (DEV) - NTD-RFILTDRAIN1* /2* / 3* - Remove Comment and astrisks from ** DEV3(LocalArm) and RINSE1 of CRF enabled tool and the astrisk from CRF Setting Table	CRF Setting * and ** DEV3(LocalArm) and RINSE1 of CRF enabled tool	* Removed and Comment Removed under the CRF Table
				5.1 System Config. Parameter, Spinner (DEV) - NTD FILTDRAIN1*/2*/3* - Remove Comment and astrisks from ** DEV3(LocalArm) and RINSE1 of CRF enabled tool and the astrisk from Interval for Circulation**	Interval for Circulation and ** DEV3(LocalArm) and RINSE1 of CRF enabled tool	* Removed and Comment Removed under the Interval for Circulation
				5.1 System Config. Parameter, Spinner (DEV) - NTD-RFILTDRAIN1* /2* / 3* - Remove Com`ment and astrisks from ** DEV3(LocalArm) and RINSE1 of CRF enabled tool and the astrisk fromInterval for Circulation**	Interval for Circulation and ** DEV3(LocalArm) and RINSE1 of CRF enabled tool	* Removed and Comment Removed under the Interval for Circulation
				5.1 System Config. Parameter, Spinner (DEV) - Format to separate the Monitoring Parameter Sectic	No Break	Separated
3/27/2018	4.09	K. Proctor	Sam S.	5.1 System Config. Parameter, Spinner (DEV) - Change table title from Standard Configuration to DEV Modul	Standard Configuration	DEV Modules
				5.1 System Config. Parameter, Spinner (DEV) - Block Arm - Left/ Block Arm - Right/ Module Arm - Left - Add HOME OFFSE TABLE	Not Exist	Added
				5.1 System Config. Parameter, Spinner (DEV) - Block Arm - Left/ Block Arm - Right/ Module Arm - Left - HOME POSITIO TABLE Renamed to match HOME OFFSET TABLI	Block Arm - Left / Righ Module Arm - Left	DEV Block Arm - L / R NTD Module Arm - Left
				5.1 System Config. Parameter, Spinner (DEV) - Block Arm - Left/ Block Arm - Right/ Module Arm - Left - REFERANCE POIN TABLE Renamed to match HOME OFFSET TABLI	Block Arm - Left / Righ Module Arm - Left	DEV Block Arm - L / R NTD Module Arm - Left
				5.2 System Config. Parameter, Spinner (COT/BCT) - Moved Keep Arm Position [69] under RST PressTRG	page 65	page 64
				5.2 System Config. Parameter, Spinner (COT/BCT) - Added CRF,Interval Circulation and Dispense Monitoring Mechanism Connection Table to RRCFILTDRAIN1	Not Exist	Added
				5.2 System Config. Parameter, Spinner (COT/BCT) - Removed RRC FILTDRAIN1 title from filtration recipe tab	RRC FILTDRAIN1	Removed
				5.2 System Config. Parameter, Spinner (COT/BCT) - Removed CSS Refill System and FailSafe table after the filtration recipe table	Existed	Removed
				5.2 System Config. Parameter, Spinner (COT/BCT) - Update the Pressure Sensor Type setting for Controller EPCA Tab	500**	1000**
				5.2 System Config. Parameter, Spinner (COT/BCT) - Update the ** comment for Pressure Sensor Type setting for Controller EPC Table	**= 100PA ONLY for TNU Layers L4/L6	**= 100PA ONLY exist for TNU L4/L6
				5.2 System Config. Parameter, Spinner (COT/BCT) - Reorder of the spinner arm tables on page69 and added the HOME OFFSE Table	Mis-Arranged	Corrected
				6. System Config Parameter, Ovens - C.ADH Module - Monitoring Parameter - Control Table Data List - Temp # ord	Temp #'s not in sequential orde	Temp #'s in sequential orde
				6. System Config Parameter, Ovens - Block 5/ Block6 PR Block, [CGCH] Chil. General Heat Chamber HP Modules - Monitorin Parameter - Control Table Data List - Temp # orde	Temp #'s not in sequential order	Temp #'s in sequential order
				6. System Config Parameter, Ovens - Block 3/ Block 4/ Block 5/ Block6 PR Block, Chil PHP,PRP (CPHP/CPRP) Modules Monitoring Parameter - Control Table Data List - Temp # orde	Temp #'s not in sequential order	Temp #'s in sequential order
				12. EC ON-LINE Setting - Added SPOOLING Home scree	Not Exist	Added
				12. EC ON-LINE Setting - Blur the Link Litho Channel Parameter as they can not be change	Visable	Un-readable
				13.EC SYSTEM Setting - Change Auto log out picture from 30 to 60 mi	30	60
				14. Data Collec Editor - Format the above comment to be read easie	no Bold emphasis	Bold emphasized
				Cover Page. Teaching Software	1.23V	1.27V
				Cover Page. Temp Cal Software	1.29V	1.30V
				Section 4. System Configuration Parameter, ARM - Block 1 CS Block - Remove BST specific rows from CSB Arm table	Specify wafer count for maintenance notification	Removed
				Section 4. System Configuration Parameter, ARM - Block 1 CS Block - Remove BST specific rows from CSB Arm tal	Wafer count for maintenance notification	Removed
				Section 5.1 System Config Parameter, Spinner (DEV) - SOLVENT-D Supply System - Filter Replacement Supply System N	27	Tool Specific
				Section 5.1 System Config Parameter, Spinner (DEV) - ADR1 RINSE - Flow Rate during Dispense Process - Comment Added	---	Tools with XDR ONLY
				Section 5.1 System Config Parameter, Spinner (DEV) - RINSE1 - Flow Rate during Dispense Process - Comment Add	---	Tools with XDR ONLY
				Section 5.2. System Config Parameter, Spinners (COT/BCT) - Possible Number of Simultaneous Resist Dispense Processes Update	*	10
7/9/2018	4.10	K. Proctor	Sam S./ J. Robinson	Section 5.2. System Config Parameter, Spinners (COT/BCT) - Possible Number of Simultaneous Resist Dispense Processes - Removal of commen	Set to number of plumbed resist lines	Deleted
				Section 5.2. System Config Parameter, Spinners (COT/BCT) - Dispense Monitoring Control Data - Remove comment under t table	80 mL/min for TAQ/TNQ Top Coat Modules "ONLY"	Deleted
				Section 6. Sys Config(Oven) - Correct Initial Data Value for CPL 7-11 & CPL 7-1	22.0C	22.2C
				Section 10. Adjustment Tool Parameter - Transfer Arm No. 1-0/2-0/3-0/4-0/5-0/6-0/7-0 Calibration Data [1-0/2-0/3-0/4-0/5-0/6-0/7-0] - Header Update	Various	Tool Specific
				Section 10. Adjustment Tool Parameter - Transfer Arm No. 1-0/2-0/3-0/4-0/5-0/6-0/7-0 Calibration Data [1-0/2-0/3-0/4-0/5-0/6-0/7-0] - DataID Update	Various	Tool Specific
				Section 10. Adjustment Tool Parameter - Transfer Arm No. 1-0/2-0/3-0/4-0/5-0/6-0/7-0 Calibration Data [1-0/2-0/3-0/4-0/5-0/6-0/7-0] - CalibModuleModuleNo Update	Various	Tool Specific
				Section 12. EC ON-LINE Setting - HSMS Channel Parameter Edit - Session ID Update	16008	Tool Specific
				Cover - Main Version - All tools except Dry tool - Software versior	100.0.58.213	100.0.58.218
				Section 5.1. System Config Parameter, Spinners (DEV) – BATH EXH. CMN2* - *Comment Add	NA	Only exist on 4×4 and 8×0 tracks
				Section 5.2. System Config Parameter, Spinners (COT/BCT) - Out-Filter Setting	NA	Added
				Section 5.2. System Config Parameter, Spinners (COT/BCT) – Solvent1 Supply system [Tool Specific] - Comment	**_CRF Specific, V202 beyon	Removed
9/7/2018	5.00	K. Proctor	H.Nagai	Section 5.2. System Config Parameter, Spinners (COT/BCT) – Dispense Monitoring Control Data – RRC Nozzle1 - H2(	H2O : TBD	Removed
				Section 5.2. System Config Parameter, Spinners (COT/BCT) – CMN CUP EXH - Comment* Add	NA	This Setting does not exist on TNU
				Section 5.2. System Config Parameter, Spinners (COT/BCT) – SOLVENT 1 Supply System [Tool Specific] - Comment	**_CRF Specific, V202 beyon	Removed
				Section 5.2. System Config Parameter, Spinners (COT/BCT) – Block Arm –Left / Right / Module Arm – Left - *Comment Revise	The Parameter only exist on dual arm tracks	The Parameter only exist on dual arm tracks except TNU
				Section 5.2. System Config Parameter, Spinners (PIR/SRS) – Monitoring Parameter – Table2 – 8-6 Monitoring ty	Use point ctrl	Use point read

Software FPD Revision History (8/9)

Date	Rev.	Approval		Location	Old	New
		INTEL	TEL			
				Section 4. System Configulation Parameter, Arm - Transfer Arm Control Parameter -	* Does not exist for TNE tools	Does not exist for DRY tools
				Section 4. System Configulation Parameter, Arm - Fork1 and 2* -	*TNE Configuration IRA only has 1 Forl	*DRY Configuration IRA only has 1 Forl
				Section 4. System Configuration Parameter, Arm - Block 3,4,5,6 PR Block - Z-axis Multistep Movement -	*Softlanding function installed too	Deleted
				Section 4. System Configuration Parameter, Arm - Block 3,4,5,6 PR Block - Z-axis Multistep Movement - OVEN/SCPL/SE	Invalid / Valid *	Valid
				Section 4. System Configuration Parameter, Arm - Block 8 IPB-Immersion Configuration ONLY - Z-axis Multistep Movement -	** **Softlanding function installed tool	Deleted
				Section 4. System Configuration Parameter, Arm - Block 8 IPB-Immersion Configuration ONLY - Z-axis Multistep Movemen TRS/ISHU/CPL	Invalid / Valid **	Valid
				Section 5.1. System Config Parameter, Spinners (DEV) - ADR1 N2 - Unexpected Pressure Watch	*Only Available on~	Deleted
				Section 5.1. System Configuration Parameter, Spinners (DEV) - NTD FILTDRAIN1*/2*/3* - Dispense Monitoring Mechanis Connection	NA	Added
				Section 5.1. System Configuration Parameter, Spinners (DEV) - NTD RFILTDRAIN1*/2*/3* - Dispense Monitoring Mechanis Connection	NA	Added
11/28/2018	5.01	K. Proctor	H.Nagai	Section 5.2. System Config Parameter, Spinners (COT/BCT) - RESIST# Supply System [Tool Specific] : M-ACRD Package - Tl Number of Wafers to be Processec	See table below	0
				Section 5.2. System Config Parameter, Spinners (COT/BCT) - The Number of Wafers to be Processe	Setting Table	Deleted
				Section 5.2. System Config Parameter, Spinners (COT/BCT) - RESIST# Supply System [Tool Specific] : M-ACRD Package Transfer Control / Chemical Amount to be Continued after Bottle Emp	NA	50 mL
				Section 5.2. System Config Parameter, Spinners (COT/BCT) - Pump17 - AMC Close Timing adjustment TYPE - *	***TYPE, X5 - X6	Deleted
				Section 5.2. System Config Parameter, Spinners (COT/BCT) - Pump Out Air Vent Setting -	*Based on Pump Out Air Vent Tim	Deleted
				Section 5.2. System Config Parameter, Spinners (COT/BCT) – Out-Filter Setting* - Setting table for Ver.211/213/21	Setting table for Ver.211/213/214	Deleted
				Section 5.2. System Config Parameter, Spinners (COT/BCT) – Out-Filter Setting* - Setting table for Ver.216 and beyo	*DF parameter for ~	Deleted
				Section 5.2. System Config Parameter, Spinners (COT/BCT) – RESIST# Supply System [Tool Specific] : PC	POR Setting table	Deleted
				Section 5.2. System Config Parameter, Spinners (COT/BCT) – RESIST NOZZLE# -	*DF parameter for ~	Deleted
				Section 8. System Parameter - Others(cont) - '	*Does not Exist on TNE or BARC tool	*Does not Exist on DRY or BARC tool
				Section 8. System Parameter - Others - '	*Does not Exist on TNE or BARC tool	*Does not Exist on DRY or BARC tool
				Section 13. Equipment mode change -	*Local For BARC and Post SED tracks	*Local For BARC tracks
				Section 5.2. System Config Parameter, Spinners (COT/BCT) - RRC FILTDRAIN*	RRC FILTDRAIN*1	RRC FILTDRAIN*1 / 2*
				Section 10. Adjustment Tool Parameter - Transfer Arm No. 1-0 Calibration Data [1-0] - Tool Specific - CalibModuleModuleNo	Tool Specific	1
				Section 10. Adjustment Tool Parameter - Transfer Arm No. 2-0 Calibration Data [2-0] - Tool Specific - CalibModuleModuleNo	Tool Specific	16
				Section 10. Adjustment Tool Parameter - Transfer Arm No. 3-0 Calibration Data [3-0] - Tool Specific - CalibModuleModuleNo	Tool Specific	1
2/20/2019	5.02	K. Proctor	H.Nagai	Section 10. Adjustment Tool Parameter - Transfer Arm No. 4-0 Calibration Data [4-0] - Tool Specific - CalibModuleModuleNo - Resist Tracks	Tool Specific	1
				Section 10. Adjustment Tool Parameter - Transfer Arm No. 4-0 Calibration Data [4-0] - Tool Specific - CalibModuleModuleNo BARC Tracks	Tool Specific	42
				Section 10. Adjustment Tool Parameter - Transfer Arm No. 5-0 Calibration Data [5-0] - Tool Specific - CalibModuleModuleNo	Tool Specific	1
				Section 10. Adjustment Tool Parameter - Transfer Arm No. 6-0 Calibration Data [6-0] - Tool Specific - CalibModuleModuleNo	Tool Specific	1
				Section 10. Adjustment Tool Parameter - Transfer Arm No. 7-0 Calibration Data [7-0] - Tool Specific - CalibModuleModuleNo	Tool Specific	46
				Section 1. Overview - Parameter Layout - Page Inf	---	Revised
				Section 5.2. System Config Parameter, Spinners (COT/BCT/TCT) - Bottle/Pump Location - TBL	NA	Added
				Secttion 6. System Config Parameter, Ovens - Block 3/ Block 4/ Block 5/ Block6 PR Block, Chil PHP,PRP (CPHP,CPRI Modules - Controller TM150-CHILLER	Offset Setting Method	Deleted
4/05/2019	5.03	K. Proctor	H.Nagai	Secttion 6. System Config Parameter, Ovens - Block 3/ Block 4/ Block 5/ Block6 PR Block, Chil PHP,PRP (CPHP,CPRI Modules - Controller TM150-CHILLER	Offset	Deleted
				Secttion 6. System Config Parameter, Ovens - Block 2 MP Block/ Blocdk 8 IPB, Chil Plt (CPL) Modules - Table 1 - Configuratio - Dry - 7-11 CPL- Initial Data -- Temperature	22.2	*
				Secttion 6. System Config Parameter, Ovens - Block 2 MP Block/ Blocdk 8 IPB, Chil Plt (CPL) Modules - Table 1 - Configuratio - Dry - 7-12 CPL- Initial Data -- Temperature	22.2	*
				Section 6. System Config Parameter, Ovens - Block 2 MP Block/ Block 3 PR Block/ Block 7 MP Block, S-CPL (SCPL) Modules- TBL Settings	NA	Added
				Section 5.1. System Config Parameter, Spinners (DEV) - DEV Nozzle2 - Target tool	TNE/TNG Config ONLY LD Nozzle	TBL/TNE/TNG Config ONLY LD Nozzle
				Section 5.1. System Config Parameter, Spinners (DEV) - DEV Nozzle2(BYPASS) - Target tool	TNE/TNG Config ONLY	TBL/TNE/TNG Config ONLY
				Section 5.1. System Config Parameter, Spinners (DEV) - DEV NZL2(AIRVNT) - Target tool	TNE/TNG Config ONLY	TBL/TNE/TNG Config ONLY
6/11/2019	6.00	K. Proctor	H.Nagai	Section 5.1. System Config Parameter, Spinners (DEV) - DEV NZL2(RINSE) - Target tool	TNE/TNG Config ONLY	TBL/TNE/TNG Config ONLY
				Section 5.2. System Config Parameter, Spinners (COT/BCT) - Table for Temperature Control Method - Modu	5-1 BCT	5-1 COT(TBL) / 5-1 BCT (BARC)
				Section 5.2. System Config Parameter, Spinners (COT/BCT) - * Table for TM150-CHILLER / THC - Modu	5-1 BCT	5-1 COT(TBL) / 5-1 BCT (BARC)
				Section 5.2. System Config Parameter, Spinners (COT/BCT) - * Table for TM150-CHILLER / THC - 5-1 BCT - Source Value Monitoring Valic	N/A	Invalid
				Section 5.2. System Config Parameter, Spinners (COT/BCT) - Block Arm - Left /Right / Module Arm - Left - Spin Arm Paramete IN, OUT Speed(Outside the Cup	112700	205000
8/15/2019	6.01	K. Proctor	H.Nagai	Section 5.2. System Config Parameter, Spinners (COT/BCT) - Block Arm - Left /Right / Module Arm - Left - Spin Arm Paramete IN, OUT Acceleration(Outside the Cup	61440	150000
				Section 5.2. System Config Parameter, Spinners (COT/BCT) - Block Arm - Left /Right / Module Arm - Left - Spin Arm Paramete IN, OUT Deceleration(Outside the Cup	61440	150000
				Section 6. System Config Parameter, Ovens - Block 3/ Block 4/ Block 5/ Block6 PR Block, Chil PHP,PRP (CPHP,CPRP) Module Control Table Data list - Temp. Range20*4	NA	Added (180C)
				Section 5.2. System Configuration Parameter, Spinners - Nozzle. SC when nozzle height is 6.5mm - Scuback 1 Position	3.00	4.00
				Section 5.2. System Configuration Parameter, Spinners - Nozzle. SC when nozzle height is 6.5mm - Scuback 2 Positi	-2.00	-1.00
				Section 5.2. System Configuration Parameter, Spinners - Nozzle. SC when nozzle height is 6.5mm - Scuback 3 Positi	3.00	4.00
				Section 5.2. System Configuration Parameter, Spinners – Dispense Monitoring Control Data – RRC Nozzle Calibration 1 – E setting	NA	Added
10/28/2019	6.02	K. Proctor	H.Nagai	Section 5.2. System Configuration Parameter, Spinners – Dispense Monitoring Control Data – E.B.R.1 Calibration 1 – EL setting	NA	Added
				Section 6. System Config Parameter, Ovens – Block 2 MP Block – Use point control Configuration - HPT and TBM Specification	NA	Added
				Section 8. System Parameter – Others - remove the asterisks from “Recipe Verification…” and “Dispense Parameter..	Asterisk	Removed
				Section 10. Adjustment Tool Parameter - Transfer Arm No. 4-0 Calibration Data[4-0] - ForkPosition[0] and [1] for BARC Tracks	for BARC Tracks	for TBL and BARC Tracks
				Section 6. System Config Parameter, Ovens –Block 2 MP Block/ Block 3 PR Block/ Block 7 MP Block, S-CPL (SCPL) Modules Table 2 - Configuration - DRY w/HTP TBM - 7-46 SCPL	NA	Added
				Section 6. System Config Parameter, Ovens - Block 3/ Block 4/ Block 5/ Block6 PR Block, Chil PHP,PRP (CPHP/CPRP) Module - Control Table Data list - Temp.Range12 - Setting Lowe	NA	110.10
2/20/2020	6.03	K. Proctor	H.Nagai	Section 6. System Config Parameter, Ovens - Block 3/ Block 4/ Block 5/ Block6 PR Block, Chil PHP,PRP (CPHP/CPRP) Module - Control Table Data list - Temp.Range12 - Accum Threshol	NA	24.00
				Section 6. System Config Parameter, Ovens - Block 3/ Block 4/ Block 5/ Block6 PR Block, Chil PHP,PRP (CPHP/CPRP) Module - Control Table Data list - Temp.Range17 - Setting Lowe	NA	130.10
				Section 6. System Config Parameter, Ovens - Block 3/ Block 4/ Block 5/ Block6 PR Block, Chil PHP,PRP (CPHP/CPRP) Module - Control Table Data list - Temp.Range17 - Accum Threshol	NA	32
				Section 8. System Parameter – Exposure State Management - asterisk - **	Valid for ASMLImmersion links, ..	Valid for ASML links, ...

Software FPD Revision History (9/9)

Date	Rev.	Approval		Location	Old	New
		INTEL	TEL			
4/15/2020	7.00	K.Proctor	H.Nagai	5.2. System Config Parameter, Spinners (COT/BCT/TCT) - Block 4,5,6 PR Block, Coater ACRD Tool ONLY - Pump 18 - Pressure for wait	NA	20
				5.2. System Config Parameter, Spinners (COT/BCT/TCT) - Block 4,5,6 PR Block, Coater ACRD Tool ONLY - Out-Filter Setting Out-Filter Vent Press Mode For Wait	NA	Enclosed Press
				Section 6. System Config Parameter, Ovens - Block 3/ Block 4/ Block 5/ Block6 PR Block, Chil PHP,PRP (CPHP/CPRP) Modul - Control Table Data list - Temp range 12***/17**	NA	TBL only
				Section 6. System Config Parameter, Ovens - Block 3/ Block 4/ Block 5/ Block6 PR Block, Chil PHP,PRP (CPHP/CPRP) Modul - Control Table Data list - Temp range 20***	NA	TBL deck4 CPRP Only
				Section 8. System Parameter - Others - Time Interval between Rechecking of Upstream Linked Recip	NA	200 ms
				Section 8. System Parameter - Others - Recipe Security for TEL Us	NA	Valid
				Section 8. System Parameter - Others - Option Delay Time before Pin Up after Chuck Vacuum OFF in Spinner Module	NA	0 ms without speed controller 1200 ms with speed controller
				Section 8. System Parameter - Others(cont) - Option Vent Exclusion Function for Shared Drain Li	NA	Valid
				Section 8. System Parameter - Maintenance - Option Consecutive Executions of Replacing Chemical Bottle and Cleaning Dispen information	NA	Valid
				Section 8. System Parameter - Maintenance - Option Operation-Less RIA Alarm	NA	Valid (PURGE Class Only)

Date	Rev.	Approval		Location	Old	New
		INTEL	TEL			
3/12/2021	7.01	K.Proctor	Dan	5.2. System Config Parameter, Spinners (COT/BCT) Laser DDS. Adding the comment of "*Invalid if RFM is Valid in Corresponding pump recipe	NA	*Invalid if RFM is Valid in Corresponding pump recipes"
				6. System Config Parameter, Ovens/Control Table Data lis Add temperature ranges for dry TBL tools.(90.1,100.1,105,1,115,120,1).	NA	Add temperature ranges for dry TBL tools.(90.1,100.1,105,1,115,120,1).

Date	Rev.	Approval		Location	Old	New
		INTEL	TEL			
4/2/2021	7.02	K.Proctor	Dan	5.2. System Config Parameter, Spinners (COT/BCT Add D6 Immersion Setting	NA	Valid,Invalid setting=Valid Time for circulation recovery=1200 Time for continuous circulation=15
				6.Sys Config(Oven) Add the condition cirtification	NA	*** TBL and copper TBM/TNE/TNG only **** TBL only
				6.Sys Config(Oven)		

Date	Rev.	Approval		Location	Old	New
		INTEL	TEL			
7/30/2021	7.03	K.Proctor	Dan	5.2. System Config Parameter, Spinners (COT/BCT Block 4,5,6 PR Block, Coater ACRD Tool ONLY - Suckback1Position from 13±1 to 13±3 - Suckback2Position from 15±1 to 15±3	- Suckback1Position 13±1 - Suckback2Position 15±1	- Suckback1Position 13±3 - Suckback2Position 15±3
				5.2. System Config Parameter, Spinners (COT/BCT Dispense Monitoring Control Data NZL CLN/BATH CLN · Set Flow Rate 10 NZL BATH 600 7 NZL BATH 440 4 NZL BATH 275 NOZZLE. SC. · Set Flow Rate 10 NZL BATH 900 7 NZL BATH 875 4 NZL BATH 525	NZL CLN/BATH CLN · Set Flow Rate =600 NOZZLE. SC. · Set Flow Rate =900	NZL CLN/BATH CLN · Set Flow Rate 10 NZL BATH 600 7 NZL BATH 440 4 NZL BATH 275 NOZZLE. SC. · Set Flow Rate 10 NZL BATH 900 7 NZL BATH 875 4 NZL BATH 525
				6.Sys Config(Oven) Adding new Control Table Data List for CPRP -Control Table Data list (except for BE DRY tracks listed below) -Control Table Data list for TBL, TBM, and (BE193 TNE, TNG only)		
				6.Sys Config(Oven) Adding new Control Table Data List for ADH -Control Table Data list (except for BE DRY tracks listed below) -Control Table Data list for TBL, TBM, and (BE193 TNE, TNG only)		