


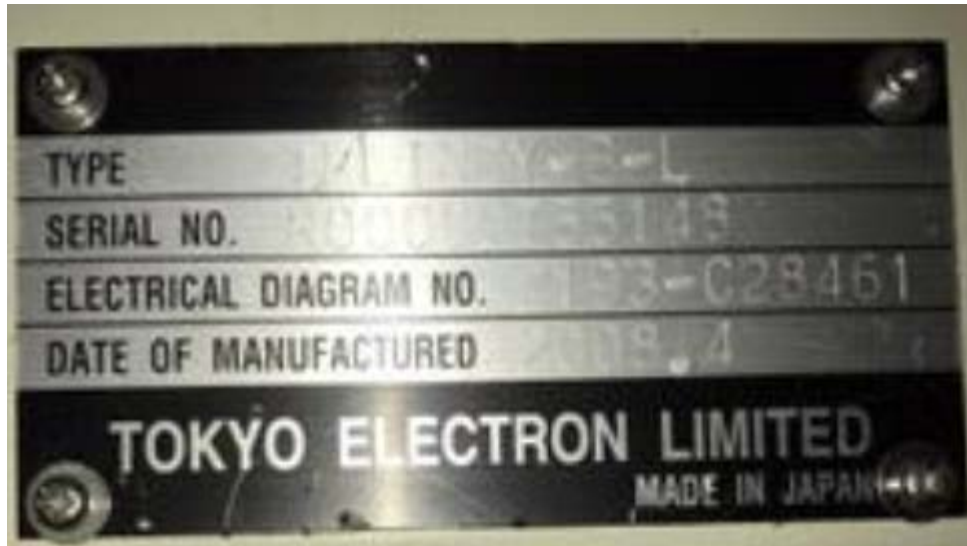
# System Information

- System HEX: BQD1
- Location: 323A Column G36
- Manufacturer model: Tokyo Electron Tel Indy B-L Diffusion Furnace
- Manufacturer Year Built: 2008
- Manufacturer S/N R00000755148
- Process Capability: Al2O3 and HfO2
- System Software revision: 6.10R001 (latest version)

General



<b>Equipment Name :</b>	BQD1
Model Name :	TELINDY
Equipment Version :	V6.07 Rev.001 [i00900-00000]
Serial No:	R00000755148
Control Type :	WAVES
Com. Module Version :	G607R01-A9990000
Recipe Group Name :	BQD1
Equipment Comment :	Al2O3



Type	TELINDY-B-L
Serial No.	R00007551148
Electrical Diagram No.	2193-C28461
Date of Manufactured	2008 . 4



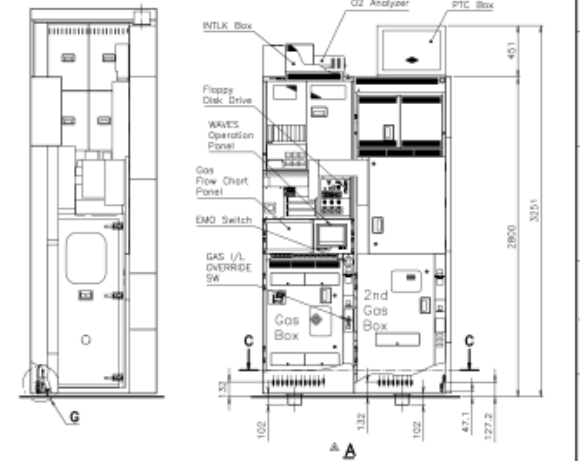
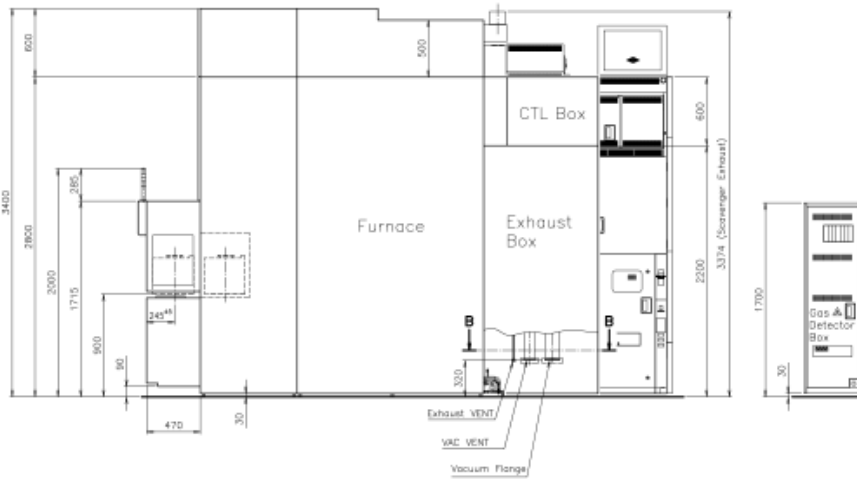
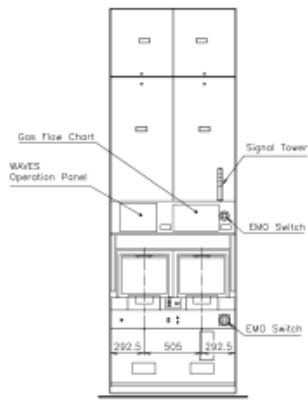
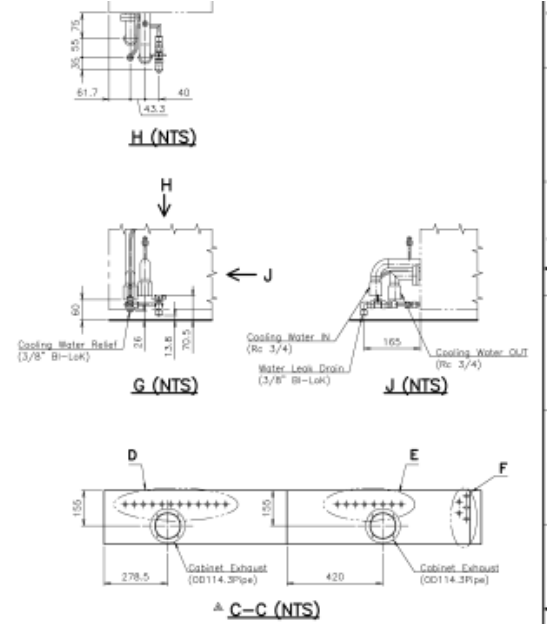
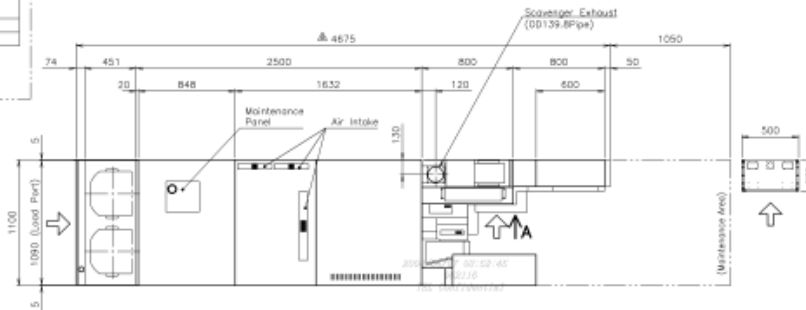
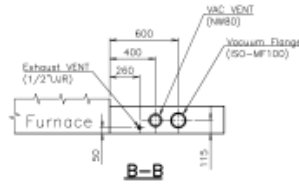
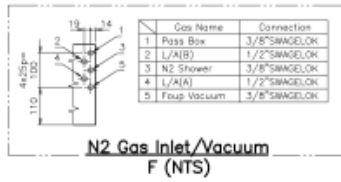
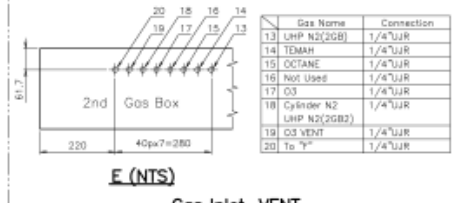
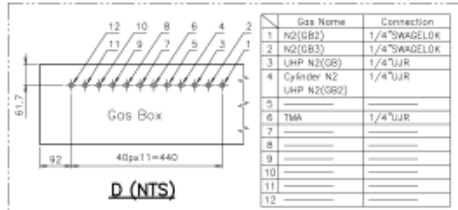


# System Condition and Status

- TMA chemical is removed and purged in it's entirety
  - The AS102 (TMA onboard liquid delivery) purged
  - TL2011 (HfO<sub>2</sub> onboard liquid delivery unit) never charged with chemical
  - O<sub>3</sub> gas purged
  - Octane never charged
  - All other gas lines are Nitrogen
- Old Quartz still installed and needs to be removed
- System is currently powered up
  - All heaters are turned off
  - Abatement system is idled
  - Pumps are installed and running
- TEL Default user logon and passwords exist
- Recipes are backed up but still need to be removed from controller



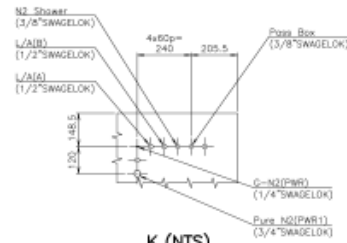
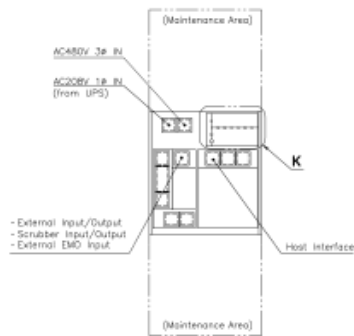
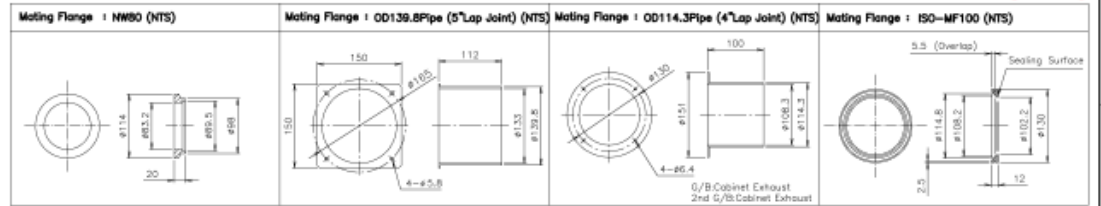
# System Layout



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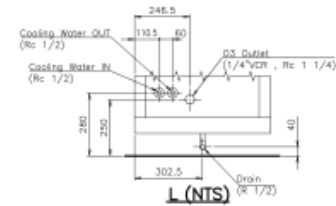
# System Layout

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 REVERSE ENGINEERED OR DISCLOSED TO OTHERS AND SHALL  
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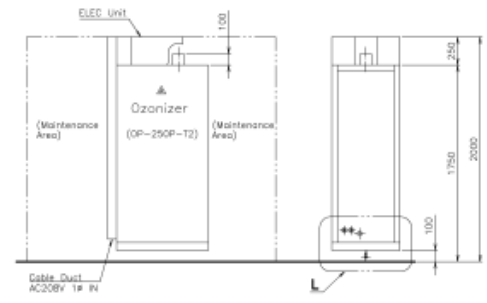
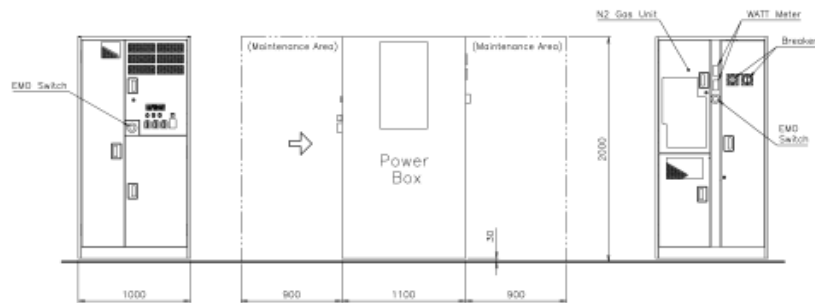
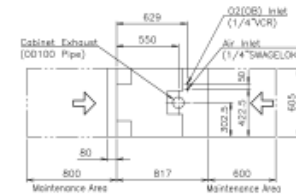


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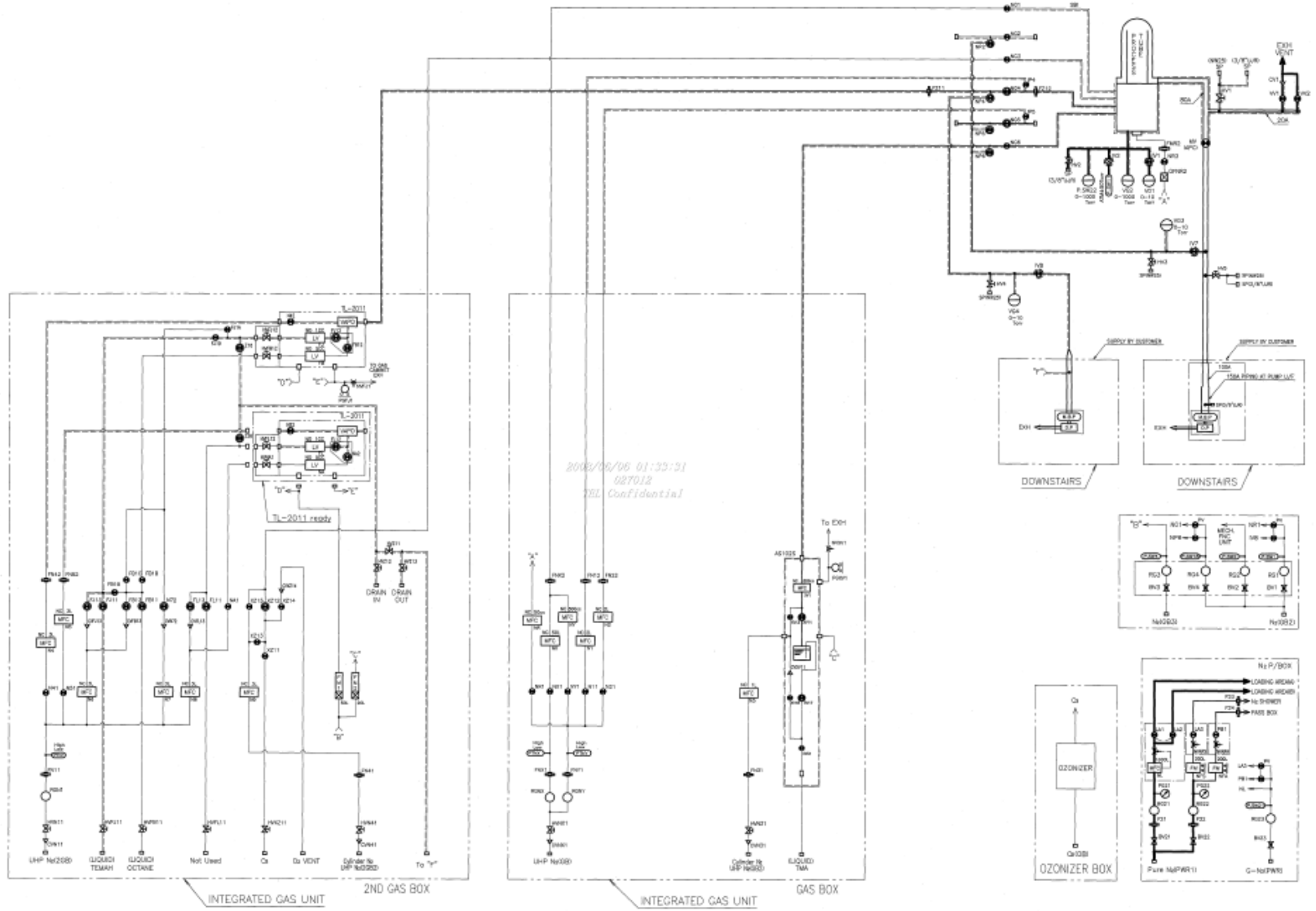


**LOWER STORY**

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# System Gas Layout

PROPRIETARY TO TORIO ELECTRONIC GROUP. IN ALL OR IN PART, IT SHOULD NOT BE REPRODUCED, COPIED OR DISCLOSED TO OTHERS WHO HAVE NOT BEEN GRANTED PERMISSION BY THE CONTRACT VENDOR FROM THE MAIN CONSULTANT OF TORIO ELECTRONIC GROUP.

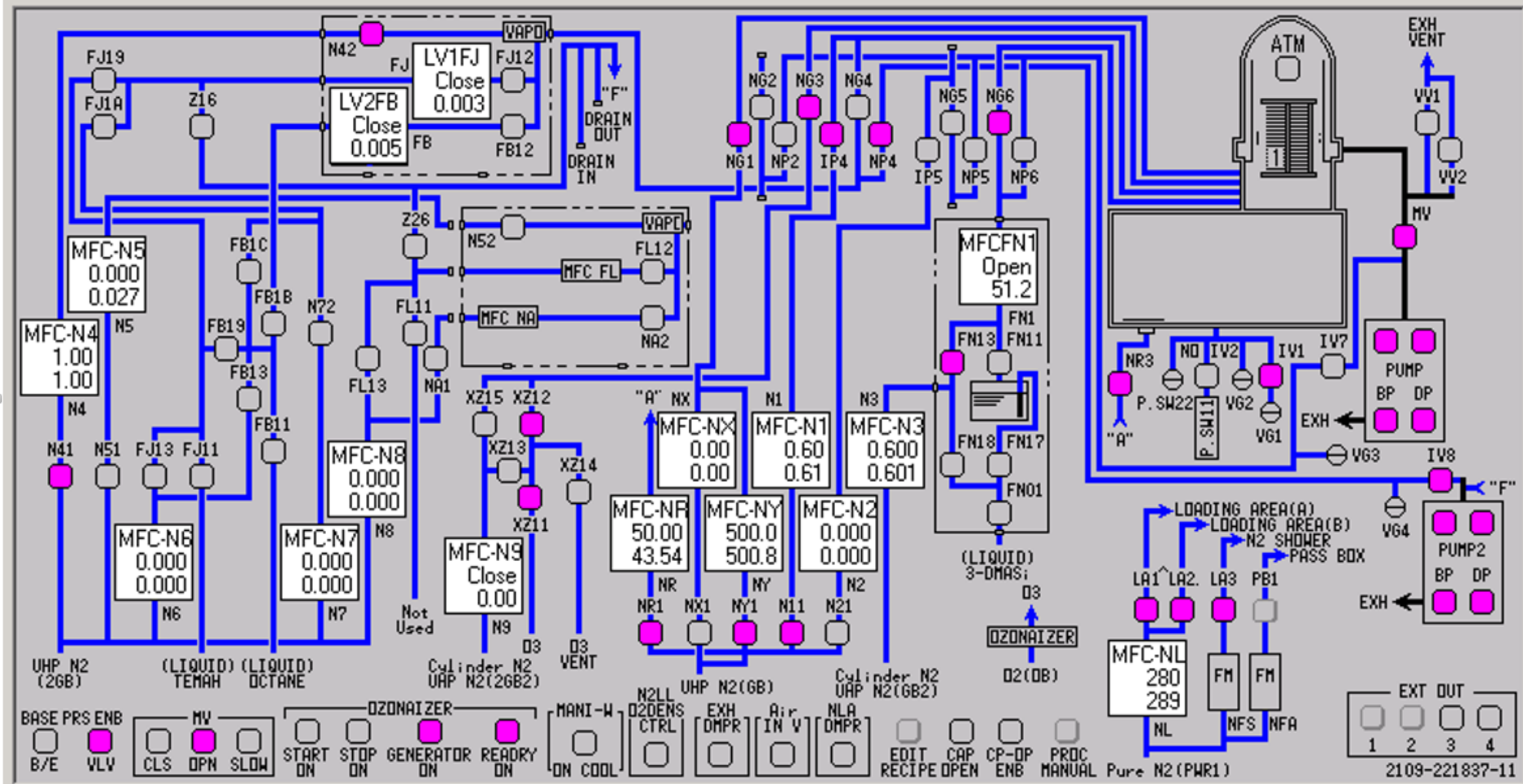


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A.O.V with Position Sensor IE2E-K2D1-N  
 A.O.V with Position Sensor IE2E-K2D2-N  
 T-14 M-14 P-14 S-14 V-14



# Gas Panel configuration



Type	Category 1	Category 2	Category 3	Parameter	BQD1
					V6.10R01
					-
WAVES	Customize	Process Settings	Load Port Switch Settings	Access Switch Pressed Before Carrier In	Don't Use
				Access Switch Pressed After Carrier In	Use
				Access Switch Pressed Before Carrier Out	Don't Use
				Access Switch Pressed After Carrier Out	Use
				Operation After Access Switch Time Out	Alarm
				Access Switch Timer(Time before system alarms if access switch is not pressed). [sec]	60
				Carrier In/Out Completion Timer(Time before next action will begin after carrier placed/removed). [sec]	5
			Wafer Count Settings	P Loading Wafer Count	Count
				M Loading Wafer Count	Count
				FM Loading Wafer Count	Count
				ED Loading Wafer Count	Count
				SD Loading Wafer Count	Count
				SM Loading Wafer Count	Count
				XD Loading Wafer Count	Count
		P Unloading Wafer Count		Don't Count	
		M Unloading Wafer Count		Don't Count	
		FM Unloading Wafer Count		Don't Count	
		ED Unloading Wafer Count		Don't Count	
		SD Unloading Wafer Count		Don't Count	
		SM Unloading Wafer Count		Don't Count	
		XD Unloading Wafer Count	Don't Count		
		Boat Elevator Parameter Settings	Process Parameters	Boat Elevator Parameters for Process: Load Speed 6 [mm/min]	500
				Boat Elevator Parameters for Process: Load Speed 5 [mm/min]	500
				Boat Elevator Parameters for Process: Load Speed 4 [mm/min]	500
				Boat Elevator Parameters for Process: Load Speed 3 [mm/min]	500
				Boat Elevator Parameters for Process: Load Speed 2 [mm/min]	500
				Boat Elevator Parameters for Process: Load Speed 1 [mm/min]	500
Boat Elevator Parameters for Process: Load Timer 5 [sec]	0				
Boat Elevator Parameters for Process: Load Timer 4 [sec]	0				
Boat Elevator Parameters for Process: Load Timer 3 [sec]	0				
Boat Elevator Parameters for Process: Load Timer 2 [sec]	0				
Boat Elevator Parameters for Process: Load Timer 1 [sec]	0				

View Mode

All

Differences Only

Type	Category 1	Category 2	Category 3	Parameter	BQD1			
					V6.10R01			
					-			
WAVES	Customize	Boat Elevator Parameter Settings	Process Parameters	Boat Elevator Parameter (Process): Load Speed Recipe Apply	S1-S2-S3-S4-S5-S6 Rcp Apply			
				Boat Elevator Parameters for Process: Unload Speed 6 [mm/min]	500			
				Boat Elevator Parameters for Process: Unload Speed 5 [mm/min]	500			
				Boat Elevator Parameters for Process: Unload Speed 4 [mm/min]	500			
				Boat Elevator Parameters for Process: Unload Speed 3 [mm/min]	500			
				Boat Elevator Parameters for Process: Unload Speed 2 [mm/min]	500			
				Boat Elevator Parameters for Process: Unload Speed 1 [mm/min]	500			
				Boat Elevator Parameters for Process: Unload Timer 5 [sec]	0			
				Boat Elevator Parameters for Process: Unload Timer 4 [sec]	0			
				Boat Elevator Parameters for Process: Unload Timer 3 [sec]	0			
				Boat Elevator Parameters for Process: Unload Timer 2 [sec]	0			
				Boat Elevator Parameters for Process: Unload Timer 1 [sec]	0			
							Boat Elevator Parameter (Process): Unload Speed Recipe Apply	S1-S2-S3-S4-S5-S6 Rcp Apply
						Storage Parameters	Boat Elevator Parameters for Storage: Load Speed 6 [mm/min]	100
							Boat Elevator Parameters for Storage: Load Speed 5 [mm/min]	150
							Boat Elevator Parameters for Storage: Load Speed 4 [mm/min]	150
							Boat Elevator Parameters for Storage: Load Speed 3 [mm/min]	150
							Boat Elevator Parameters for Storage: Load Speed 2 [mm/min]	150
							Boat Elevator Parameters for Storage: Load Speed 1 [mm/min]	100
							Boat Elevator Parameters for Storage: Load Timer 5 [sec]	0
							Boat Elevator Parameters for Storage: Load Timer 4 [sec]	0
							Boat Elevator Parameters for Storage: Load Timer 3 [sec]	0
							Boat Elevator Parameters for Storage: Load Timer 2 [sec]	0
			Boat Elevator Parameters for Storage: Load Timer 1 [sec]	0				
			Boat Elevator Parameters for Storage: Unload Speed 6 [mm/min]	100				
			Boat Elevator Parameters for Storage: Unload Speed 5 [mm/min]	150				

Type	Category 1	Category 2	Category 3	Parameter	BQD1
					V6.10R01
					-
WAVES	Customize	Boat Elevator Parameter Settings	Storage Parameters	Boat Elevator Parameters for Storage: Unload Speed 1 [mm/min]	100
				Boat Elevator Parameters for Storage: Unload Timer 5 [sec]	0
				Boat Elevator Parameters for Storage: Unload Timer 4 [sec]	0
				Boat Elevator Parameters for Storage: Unload Timer 3 [sec]	0
				Boat Elevator Parameters for Storage: Unload Timer 2 [sec]	0
				Boat Elevator Parameters for Storage: Unload Timer 1 [sec]	0
			Manual Parameters	Boat Elevator Parameters for Manual: Load Speed [mm/min]	500
			Rotate Parameters	Boat Elevator Parameter (Rotate): Rotate Direction	CW
				Boat Elevator Parameter (Rotate): Rotate Speed [rpm]	0.5
				Boat Elevator Parameter (Rotate): Rotate Angle in Interval Mode [deg]	90
				Boat Elevator Parameter (Rotate): Pause Time in Interval Mode [sec]	5000
			N2 Shower Settings	Unload N2 Shower Function	No Use
		Unload N2 Shower Flow [sccm]		0.000	
		Unload N2 Shower Flow Alarm Watch Table		NoWatch	
		Cooling N2 Shower Function		No Use	
		Cooling N2 Shower Flow [sccm]		0.000	
		Cooling N2 Shower Flow Alarm Watch Table		NoWatch	
		Wafer Cooling Time Settings	Cooling time before Discharge after recipe completion [min.]	25	
			Cooling Time Before Transferring Boat [min.]	10	
			Cooling time before Discharge after Auto-storage unload [min.]	35	
			Cooling time before Charge after Auto-storage unload [min.]	10	
		Auto Storage Function Settings	Auto Storage Function Settings	None	
			Storage Recipe Class Name	main	
			Storage Recipe Name	STORAGE-CYCPRG	
			Auto Storage Exec. Time [min.]	360	
			Dummy Wafer Rule	Withdraw	
		Wafer Charging	Charging Order by Type	ED->P->M	
			Boat Usage Priority	Use Closest Boat	
			Ionizer Operation	On During Transfer	

Type	Category 1	Category 2	Category 3	Parameter	BQD1
					V6.10R01
					-
WAVES	Customize	Boat Elevator Parameter Settings	Storage Parameters	Boat Elevator Parameters for Storage: Unload Speed 1 [mm/min]	100
				Boat Elevator Parameters for Storage: Unload Timer 5 [sec]	0
				Boat Elevator Parameters for Storage: Unload Timer 4 [sec]	0
				Boat Elevator Parameters for Storage: Unload Timer 3 [sec]	0
				Boat Elevator Parameters for Storage: Unload Timer 2 [sec]	0
				Boat Elevator Parameters for Storage: Unload Timer 1 [sec]	0
			Manual Parameters	Boat Elevator Parameters for Manual: Load Speed [mm/min]	500
			Rotate Parameters	Boat Elevator Parameter (Rotate): Rotate Direction	CW
				Boat Elevator Parameter (Rotate): Rotate Speed [rpm]	0.5
				Boat Elevator Parameter (Rotate): Rotate Angle in Interval Mode [deg]	90
				Boat Elevator Parameter (Rotate): Pause Time in Interval Mode [sec]	5000
			N2 Shower Settings	Unload N2 Shower Function	No Use
				Unload N2 Shower Flow [sccm]	0.000
		Unload N2 Shower Flow Alarm Watch Table		NoWatch	
		Cooling N2 Shower Function		No Use	
		Cooling N2 Shower Flow [sccm]		0.000	
		Cooling N2 Shower Flow Alarm Watch Table		NoWatch	
		Wafer Cooling Time Settings	Cooling time before Discharge after recipe completion [min.]	25	
			Cooling Time Before Transferring Boat [min.]	10	
			Cooling time before Discharge after Auto-storage unload [min.]	35	
			Cooling time before Charge after Auto-storage unload [min.]	10	
		Auto Storage Function Settings	Auto Storage Function Settings	None	
			Storage Recipe Class Name	main	
			Storage Recipe Name	STORAGE-CYCPRG	
			Auto Storage Exec. Time [min.]	360	
			Dummy Wafer Rule	Withdraw	
		Wafer Charging	Charging Order by Type	ED->P->M	
			Boat Usage Priority	Use Closest Boat	
			Ionizer Operation	On During Transfer	

Lease # 4

SCHEDULE A  
LESSOR'S COST

Item				Lessor's Cost
Hex	Vendor	Description	S/N	
BQD1	TEL	Vertical Thermal Processing System MLD AIO/HfO, <b>TELindy</b> , 300mm, dual FOUPS, 16 FOUP Stacker, Options: N2 Load Lock, Low Temp Heater	R00000755 148	\$2,390,031.00



**TOKYO ELECTRON LIMITED**  
 Head Office  
 TBS BROADCAST CENTER  
 3-6 AKASAKA 5-CHOME, MINATO-KU, TOKYO 107-8481, JAPAN

TOP CONFIDENTIAL

**QUOTATION**

NO. : TYL-7Y15  
 DATE : Nov, 27, 2007

**CUSTOMER**  
 IBM Fishkill 300mm Fab  
 2070 Route 52  
 Hopewell Junction, NY 12533  
 Attn : Mr. Kevin V. Brooks

**TOKYO ELECTRON LIMITED**  
 TBS Broadcasting Center  
 3-6, Akasaka 5-Chome, Minato-Ku, Tokyo 107, Japan  
 Attn : Daisuke Wakuri /Thermal Process Systems  
 Phone : +81-3-5561-7030

<b>YOUR REFERENCE:</b> Budgetary	<b>TRADE TERMS :</b> FCA Narita	<b>PAYMENT TERMS:</b> See Terms & Conditions	<b>APPROX. DELIVERY :</b> TBD	<b>VALIDITY OF THIS QUOTE:</b>
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THIS QUOTATION IS SUBJECT TO AND INCLUDES THE TERMS AND CONDITIONS ON THE REVERSE SIDE.  
 Unit: Japanese Yen

ITEM NUMBER:

ITEM NUMBER	Description	Quantity	Unit	Notes
	<b>Vertical MLD AIO/HfO Furnace TELINDY for 300mm Wafers</b>			
I.	<b>Base Unit for AIO/HfO MLD Process</b>	1		
	INCLUDING:			
(a)	Cabinets / Units / Controllers			
	- Furnace Cabinet(with Scavenger)			
	- Power Supply Unit, Control Unit			
	- Main Controller (WAVES)			
	- Temperature Controller			
(b)	Cassette and Wafer Handling Automation			
	- Auto Tube Shutter			
	- Boat Elevator w/Boat Rotation Mechanism			
	- Wafer Load Automallon			
	- Load Port System			
	- Cassette Load Automation			
	- 16 FOUP Stocker			
	- US Safety (S2-0302, S8-0999)			
II.	<b>MLD AIO/HfO Specific Option</b>			
(a)	Integrated Gas System for AIO/HfO Process			Included
	- Purge N2 gas line			
	- Vaporizer unit for TMA precursor			
	- Vaporizer unit for TEMAH precursor			
	- Ozonizer unit			
(b)	N2 Load Lock			
	- O2 Density Monitor in the Loading Area			
	- N2 Gas System			
(c)	Low temperature heater (VMM-56-104)			
(d)	Vacuum foreline configuration with stainless steel manifold			
(e)	2nd Gas Box			
(e)	Complete Set of AIO/HfO Quartzware	1		

CONTINUED ON NEXT PAGE

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**TOKYO ELECTRON LIMITED**  
 Head Office  
 TBS BROADCAST CENTER  
 3-6 AKASAKA 5-CHOME, MINATO-KU, TOKYO 107-8481, JAPAN

**QUOTATION**  
 NO. : TYL-7Y15  
 DATE : Nov, 27, 2007

<b>CUSTOMER</b> IBM Fishkill 300mm Fab 2070 Route 52 Hopewell Junction, NY 12533  Attn : Mr. Kevin V. Brooks	<b>TOKYO ELECTRON LIMITED</b> TBS Broadcasting Center 3-6, Akasaka 5-Chome, Minato-Ku, Tokyo 107, Japan Attn : Daisuke Wakuri /Thermal Process Systems Phone : +81-3-5561-7030
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<b>YOUR REFERENCE:</b> Budgetary	<b>TRADE TERMS :</b> FCA Narita	<b>PAYMENT TERMS:</b> See Terms & Conditions	<b>APPROX. DELIVERY :</b> TBD	<b>VALIDITY OF THIS QUOTE:</b>
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THIS QUOTATION IS SUBJECT TO AND INCLUDES THE TERMS AND CONDITIONS ON THE REVERSE SIDE.

ITEM NUMBER:

Unit : Japanese Yen

<b>III. Per System Options</b>			Included
(a) Ionizer			
(b) UPS			
(c) Gas Detectors			
- TMA			
- O3			
- HCl			
- TEMAH			
- Octane			
<b>IV. Others</b>			Included
Documentation Package			
TEL standard Start-Up Charge			
Inland Freight (Japan) & Export Packing			
TEL standard 1 year Warranty			
<b>V. Second Year Warranty Coverage</b>			
		Sub Total 1	
		Strategic Discount	
		<b>Grand Total</b>	
Note for Tool Configuration 1. PUMP/ NDU will be provided by IBM 2. TPU Unit will be provided by IBM 3. O3 destructor unit will be provided by IBM			
Note: SALES TAX WILL BE CHARGED WHERE APPLICABLE IN ADDITION TO THE ACKNOWLEDGEMENT AMOUNT UNLESS VALID EXEMPTION CERTIFICATES ARE PROVIDED TO THE VENDOR			

"Sales tax, VAT, consumption tax or other similar taxes may be charged in addition to the acknowledgement amount above depending on tax code, statute, or regulation of each country, state or local government."

AUTHORIZED SIGNATURE

Tony Kawal / Director, TPS Dept.