

1_SiN_dep						
SUBROUTINE	STEPS					
N2_Gas_Prep	N2_Gas_Prep	Depo Beam Parameters	Assist Beam Parameters	Target	Process	Fixture
		Beam voltage=0	Beam voltage=0			Fixture Tilt Angle=40
		Beam curent=0	Beam curent=0			Fixture Rotation Speed=20rpm
		Ignition RF Power=0	Ignition RF Power=0			
		Suppressor Voltage=0	Suppressor Voltage=0	PM1	Process time	
		PBN Flowrate=5	PBN Flowrate=5	Si	10sec	Shutter "at beam"
		K Factor=0	K Factor=0			substrate=close
		Gas Values	Gas Values			target=close
		PM1	PM1			
		Ar=0	Ar=0			
		Xe=0	O2=0	Target angle=55		
		N2=0	N2=5			
	N2_Gas_Shutoff	Depo Beam Parameters	Assist Beam Parameters	Target	Process	Fixture
		Beam voltage=0	Beam voltage=0			Fixture Tilt Angle=40
		Beam curent=0	Beam curent=0			Fixture Rotation Speed=20rpm
		Ignition RF Power=0	Ignition RF Power=0			
		Suppressor Voltage=0	Suppressor Voltage=0	PM1	Process time	
		PBN Flowrate=5	PBN Flowrate=5	Si	10sec	Shutter "at beam"
		K Factor=0	K Factor=0			substrate=close
		Gas Values	Gas Values			target=close
		PM1	PM1			
		Ar=0	Ar=0			
		Xe=0	O2=0	Target angle=55		
		N2=0	N2=0			
Ignite	Ignite_HiV_00_Asst	Depo Beam Parameters	Assist Beam Parameters	Target	Process	Fixture
		Beam at step=shutoff	Beam at step=ExtractBeam			
		Beam at end=shutoff	Beam at end=PlasmaOnly			
		PBN=off	PBN=on			
		Beam voltage=0	Beam voltage=900	PM1	Process time	Fixture Tilt Angle=40
		Beam curent=0	Beam curent=160	Si	20sec	Fixture Rotation Speed=20rpm
		Ignition RF Power=0	Ignition RF Power=150			
		Suppressor Voltage=0	Suppressor Voltage=180			Shutter "at beam"
		PBN Flowrate=5	PBN Flowrate=5			substrate=close
		K Factor=0	K Factor=3.1			target=close
		Gas Values	Gas Values	Target angle=55		
		PM1	PM1			
		Ar=10	Ar=10			
		Xe=0	O2=0			
		N2=0	N2=0			
	Ignite_HiV_01_DepoAsst	Depo Beam Parameters	Assist Beam Parameters	Target	Process	Fixture
		Beam at step=shutoff	Beam at step=ExtractBeam			
		Beam at end=shutoff	Beam at end=ExtractBeam			
		PBN=on	PBN=on			
		Beam voltage=1120	Beam voltage=900	PM1	Process time	Fixture Tilt Angle=40
		Beam curent=200	Beam curent=200	Si	20sec	Fixture Rotation Speed=20rpm
		Ignition RF Power=150	Ignition RF Power=150			
		Suppressor Voltage=150	Suppressor Voltage=180			Shutter "at beam"
		PBN Flowrate=5	PBN Flowrate=5			substrate=close
		K Factor=3.1	K Factor=3.1			target=close
		Gas Values	Gas Values	Target angle=55		
		PM1	PM1			
		Ar=10	Ar=10			
		Xe=0	O2=0			
		N2=0	N2=0			

Ignite_GridClean		Depo Beam Parameters	Assist Beam Parameters	Target	Process	Fixture
		Beam at step=ExtractBeam	Beam at step=ExtractBeam			
		Beam at end=PlasmaOnly	Beam at end=PlasmaOnly			
		PBN=on	PBN=on			
		Beam voltage=50	Beam voltage=50	PM1	Process time	Fixture Tilt Angle=40
		Beam curent=310	Beam curent=310	Si	300sec	Fixture Rotation Speed=20rpm
		Ignition RF Power=250	Ignition RF Power=250			
		Suppressor Voltage=800	Suppressor Voltage=800			Shutter "at beam"
		PBN Flowrate=5	PBN Flowrate=5			substrate=close
		K Factor=2	K Factor=2			target=close
		Gas Values	Gas Values	Target angle=55		
		PM1	PM1			
		Ar=10	Ar=10			
		Xe=0	O2=0			
		N2=0	N2=0			
Warmup		Depo Beam Parameters	Assist Beam Parameters	Target	Process	Fixture
		Beam at step=PlasmaOnly	Beam at step=PlasmaOnly			
		Beam at end=PlasmaOnly	Beam at end=PlasmaOnly			
		PBN=on	PBN=on			
		Do not change RF	Do not change RF			
		Beam voltage=50	Beam voltage=55	PM1	Process time	Fixture Tilt Angle=40
		Beam curent=380	Beam curent=400	Si	10sec	Fixture Rotation Speed=10rpm
		Ignition RF Power=300	Ignition RF Power=300			
		Suppressor Voltage=800	Suppressor Voltage=795			Shutter "at beam"
		PBN Flowrate=5	PBN Flowrate=5			substrate=close
		K Factor=2	K Factor=2			target=close
		Gas Values	Gas Values	Target angle=55		
		PM1	PM1			
		Ar=10	Ar=10			
		Xe=0	O2=0			
		N2=0	N2=0			
SiN_GasRamp		Depo Beam Parameters	Assist Beam Parameters	Target	Process	Fixture
		Beam at step=PlasmaOnly	Beam at step=PlasmaOnly			
		Beam at end=PlasmaOnly	Beam at end=PlasmaOnly			
		PBN=on	PBN=on			
		Do not change RF	Do not change RF			
		Beam voltage=950	Beam voltage=60	PM1	Process time	Fixture Tilt Angle=40
		Beam curent=380	Beam curent=310	Si	15sec	Fixture Rotation Speed=20rpm
		Ignition RF Power=300	Ignition RF Power=300			
		Suppressor Voltage=153	Suppressor Voltage=960			Shutter "at beam"
		PBN Flowrate=5	PBN Flowrate=5			substrate=close
		K Factor=2	K Factor=2			target=close
		Gas Values	Gas Values	Target angle=55		
		PM1	PM1			
		Ar=10	Ar=5			
		Xe=5	O2=0			
		N2=0	N2=10			
SiN_PreSputter		SiN_PreDep1_Gas Stab.				

		Depo Beam Parameters	Assist Beam Parameters	Target	Process	Fixture
		Beam at step=PlasmaOnly	Beam at step=PlasmaOnly			
		Beam at end=PlasmaOnly	Beam at end=PlasmaOnly			
		PBN=on	PBN=on			
		Do not change RF	Do not change RF			
		Beam voltage=950	Beam voltage=60	PM1	Process time	Fixture Tilt Angle=40
		Beam curent=380	Beam curent=310	Si	60sec	Fixture Rotation Speed=20rpm
		Ignition RF Power=300	Ignition RF Power=300			
		Suppressor Voltage=153	Suppressor Voltage=960			Shutter "at beam"
		PBN Flowrate=5	PBN Flowrate=5			substrate=close
		K Factor=2	K Factor=2			target=close
		Gas Values	Gas Values	Target angle=55		
		PM1	PM1			
		Ar=0	Ar=0			
		Xe=5	O2=0			
		N2=0	N2=30			
	SiN_PreDep2_Sputter					
		Depo Beam Parameters	Assist Beam Parameters	Target	Process	Fixture
		Beam at step=PlasmaOnly	Beam at step=PlasmaOnly			
		Beam at end=PlasmaOnly	Beam at end=PlasmaOnly			
		PBN=on	PBN=on			
		Do not change RF	Do not change RF			
		Beam voltage=950	Beam voltage=60	PM1	Process time	Fixture Tilt Angle=40
		Beam curent=380	Beam curent=310	Si	300sec	Fixture Rotation Speed=20rpm
		Ignition RF Power=300	Ignition RF Power=300			
		Suppressor Voltage=153	Suppressor Voltage=960			Shutter "at beam"
		PBN Flowrate=5	PBN Flowrate=5			substrate=close
		K Factor=2	K Factor=2			target=close
		Gas Values	Gas Values	Target angle=55		
		PM1	PM1			
		Ar=0	Ar=0			
		Xe=5	O2=0			
		N2=0	N2=30			
SiN_Dep	SiN_Dep					
		Depo Beam Parameters	Assist Beam Parameters	Target	Process	Fixture
		Beam at step=ExtractOnly	Beam at step=ExtractOnly			
		Beam at end=PlasmaOnly	Beam at end=PlasmaOnly			
		PBN=on	PBN=on			
		Beam voltage=950	Beam voltage=60	PM1	Process time	Fixture Tilt Angle=40
		Beam curent=380	Beam curent=310	Si	1800sec	Fixture Rotation Speed=20rpm
		Ignition RF Power=300	Ignition RF Power=300			
		Suppressor Voltage=153	Suppressor Voltage=960			Shutter "at beam"
		PBN Flowrate=5	PBN Flowrate=5			substrate=open
		K Factor=2	K Factor=2			target=open
		Gas Values	Gas Values	Target angle=55		
		PM1	PM1			
		Ar=0	Ar=0			
		Xe=5	O2=0			
		N2=0	N2=30			

SiN_GasRamp	SiN_GasRamp	Depo Beam Parameters	Assist Beam Parameters	Target	Process	Fixture
		Beam at step=PlasmaOnly	Beam at step=PlasmaOnly			
		Beam at end=PlasmaOnly	Beam at end=PlasmaOnly			
		PBN=on	PBN=on			
		Do not change RF	Do not change RF			
		Beam voltage=950	Beam voltage=60	PM1	Process time	Fixture Tilt Angle=40
		Beam curent=380	Beam curent=310	Si	15sec	Fixture Rotation Speed=20rpm
		Ignition RF Power=300	Ignition RF Power=300			
		Suppressor Voltage=153	Suppressor Voltage=960			Shutter "at beam"
		PBN Flowrate=5	PBN Flowrate=5			substrate=close
		K Factor=2	K Factor=2			target=close
		Gas Values	Gas Values	Target angle=55		
		PM1	PM1			
		Ar=10	Ar=5			
		Xe=5	O2=0			
		N2=0	N2=10			
SiN_GridClean	SiN_GridClean	Depo Beam Parameters	Assist Beam Parameters	Target	Process	Fixture
		Beam at step=ExtractOnly	Beam at step=ExtractOnly			
		Beam at end=PlasmaOnly	Beam at end=PlasmaOnly			
		PBN=on	PBN=on			
		Beam voltage=50	Beam voltage=50	PM1	Process time	Fixture Tilt Angle=40
		Beam curent=310	Beam curent=310	Si	300sec	Fixture Rotation Speed=20rpm
		Ignition RF Power=375	Ignition RF Power=375			
		Suppressor Voltage=800	Suppressor Voltage=800			Shutter "at beam"
		PBN Flowrate=5	PBN Flowrate=5			substrate=close
		K Factor=2	K Factor=2			target=close
		Gas Values	Gas Values	Target angle=55		
		PM1	PM1			
		Ar=10	Ar=10			
		Xe=0	Xe=0			
		N2=0	N2=0			
Shut_n_pmp_dwn	Shut_n_pmp_dwn	Depo Beam Parameters	Assist Beam Parameters	Target	Process	Fixture
		Beam at step=shutoff	Beam at step=shutoff			
		Beam at end=shutoff	Beam at end=shutoff			
		PBN=off	PBN=off			
		Beam voltage=0	Beam voltage=0	PM1	Process time	Fixture Tilt Angle=40
		Beam curent=0	Beam curent=0	Si	30sec	Fixture Rotation Speed=10rpm
		Ignition RF Power=0	Ignition RF Power=0			
		Suppressor Voltage=0	Suppressor Voltage=0			Shutter "at beam"
		PBN Flowrate=0	PBN Flowrate=0			substrate=close
		K Factor=0	K Factor=0			target=close
		Gas Values	Gas Values	Target angle=55		
		PM1	PM1			
		Ar=0	Ar=0			
		Xe=0	Xe=0			
		N2=0	N2=0			
Shut_dwn_open_cryo	Shut_dwn_open_cryo	Depo Beam Parameters	Assist Beam Parameters	Target	Process	Fixture
		Beam at step=shutoff	Beam at step=shutoff			
		Beam at end=shutoff	Beam at end=shutoff			
		PBN=off	PBN=off			
		Beam voltage=0	Beam voltage=0	PM1	Process time	Fixture Tilt Angle=90
		Beam curent=0	Beam curent=0	Si	10sec	Fixture Rotation Speed=10rpm
		Ignition RF Power=0	Ignition RF Power=0			
		Suppressor Voltage=0	Suppressor Voltage=0			Shutter "at beam"
		PBN Flowrate=0	PBN Flowrate=0			substrate=close
		K Factor=0	K Factor=0			target=close
		Gas Values	Gas Values	Target angle=55		
		PM1	PM1			
		Ar=0	Ar=0			
		Xe=0	Xe=0			
		N2=0	N2=0			