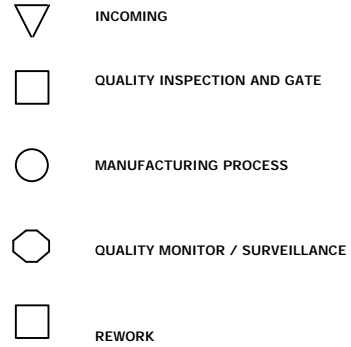
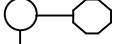
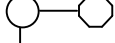
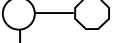
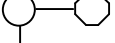



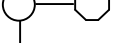




**ATTACHMENT 1.
WAFER FABRICATION FLOWCHART**

Vendor: Linear Technology Corporation
 Product: CMOS Process
 Package: All Package Types
 Location of Wafer Fab: Linear Technology Corp., Milpitas, CA./ Camas, WA.
 Assembly: Penang/Carsem/Unisem Malaysia
 Final Test: Linear Technology Corp., Milpitas, CA., Singapore
 Q.C. Test: Linear Technology Corp., Milpitas, CA., Singapore
 Source Accept Test: Linear Technology Corp., Milpitas, CA., Singapore
 Quality Contact: Dwight Somerset, LTC, Milpitas, CA.
 (408) 432-1900 Ext. 2427



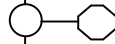
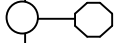
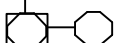


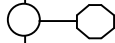
FLOW CHART INCOMNG FAB REWORK	PROCESS STEP	DESCRIPTION	INSPECTION/ TEST CRITERIA	METHOD & EQUIPMENT	SAMPLING PLAN	SPC TECHNIQUE
	INCOMING RAW MATERIAL INSPECTION	WAFERS	VISUAL: SCRATCHES, PITS, HAZE, CRATERS, DIMPLES, CONTAMINATION, OXYGEN/CARBON MEASUREMENT RESISTIVITY/ CONDUCTIVITY DIMENSIONAL THICKNESS AND TAPER/BOW ORIENTATION C OF C VERIFICATION AGAINST "MPS" REQUIREMENTS	1 X INSPECTION INFRARED SPECTROMETER MAGNETRON V/I METER CALIPERS DIAL THICKNESS GAGE BREAK TEST	1.0% AQL TO 2.5% AQL LEVEL 1. S/S = 2, ACC = 0 S/S = 2, ACC = 0 2.5% AQL, LEVEL 1 2.5% AQL, LEVEL 1 S/S = 1, ACC = 0 EACH BATCH	% LAR TREND CHART & % DEFECTIVE TREND CHART
		PHOTO MASK PLATES	VISUAL C.D. MEASUREMENTS	AMS-100 CALIPERS COMPARATOR U.V.LAMP	EACH PLATE EACH BATCH	LOGBOOK LOGBOOK
		CHEMICALS	C OF C VERIFICATION AGAINST "MPS" REQUIREMENTS			
		GASES	PLUS YEARLY GAS ANALYSIS	OUTSIDE LAB	EACH TARGET	LOGBOOK
		TARGETS	C OF C VERIFICATION			
	INITIAL OXIDATION	OXIDATION FURNACE	VISUAL	UV LAMP (100%) 20X MICROSCOPE	2 WAFERS/RUN < 2 DEFECTS PER FIELD OF VIEW	LOGBOOK
			OXIDE THICKNESS	NANOSPEC	3 WAFERS/CYCLE	
	P-WELL MASK	RESIST MASK HF ETCH BATH	VISUAL	OPTICAL MICROSCOPE 100X	"Z" PATTERN SCAN 100% OF THE WAFERS	PRODUCTION LOG
		OXIDATION FURNACE	VISUAL	UV LAMP (100%) 20X MICROSCOPE	2 WAFERS/RUN < 2 DEFECTS PER FIELD OF VIEW	LOGBOOK
	PRE IMPLANT OXIDATION		OXIDE THICKNESS	NANOSPEC	3 WAFERS/CYCLE	
		P-WELL IMPLANT	IMPLANT	-	-	-
	P- WELL DRIVE		VISUAL	UV LAMP (100%) 20X MICROSCOPE	2 WAFERS/RUN < 2 DEFECTS PER FIELD OF VIEW	LOGBOOK
			OXIDE THICKNESS	NANOSPEC	3 WAFERS/CYCLE	

FLOW CHART INCOMNG FAB REWORK	PROCESS STEP	DESCRIPTION	INSPECTION/ TEST CRITERIA	METHOD & EQUIPMENT	SAMPLING PLAN	SPC TECHNIQUE
	STRIP ALL OXIDE	HF ETCH BATH	-	-	-	LOGBOOK
	PAD OXIDATION	OXIDATION FURNACE	VISUAL	UV LAMP (100%) 20X MICROSCOPE	2 WAFERS/RUN < 2 DEFECTS PER FIELD OF VIEW	LOGBOOK
			OXIDE THICKNESS	NANOSPEC	3 WAFERS/CYCLE	
	NITRIDE DEPOSITION	NITRIDE FURNACE	VISUAL	UV LAMP (100%) 20X MICROSCOPE	2 WAFERS/RUN < 2 DEFECTS PER FIELD OF VIEW	AS APPLICABLE LOGBOOK PASSIVE CRITICAL NODE > 2.0
			NITRIDE THICKNESS	NANOSPEC	3 WAFERS/CYCLE	
	ACTIVE MASK	RF PLASMA ETCH	VISUAL INSPECTION CRITICAL DIMENSIONS	MICROSCOPE 400X	"Z" PATTERN SCAN 100% OF THE WAFERS	PRODUCTION LOG
	P FIELD IMPLANT MASK	RESIST MASK HF ETCH BATH	VISUAL INSPECTION	MICROSCOPE 400X	"Z" PATTERN SCAN 100% OF THE WAFERS	PRODUCTION LOG
	BORON FIELD IMPLANT	IMPLANT	-	-	-	LOGBOOK
	CMOS STRIP RESIST	RF PLASMA SULFURIC ACID	VISUAL INSPECTION	MICROSCOPE 100X	"Z" PATTERN SCAN 100% OF THE WAFERS	LOGBOOK
	N-FIELD IMPLANT MASK	RESIST MASK HF ETCH BATH	UV VISUAL	UV LAMP (100%) 20X MICROSCOPE	2 WAFERS/RUN < 2 DEFECTS PER FIELD OF VIEW	PRODUCTION LOG
			VISUAL INSPECTION	MICROSCOPE 100X	"Z" PATTERN SCAN 100% OF THE WAFERS	
	PHOS FIELD IMPLANT	IMPLANT	-	-	-	LOGBOOK
	CMOS STRIP RESIST	RF PLASMA SULFURIC ACID	VISUAL INSPECTION	MICROSCOPE 100X	"Z" PATTERN SCAN 100% OF THE WAFERS	LOGBOOK

FLOW CHART INCOMNG FAB REWORK	PROCESS STEP	DESCRIPTION	INSPECTION/ TEST CRITERIA	METHOD & EQUIPMENT	SAMPLING PLAN	SPC TECHNIQUE
	LOCOS OXIDE	OXIDATION FURNACE	VISUAL	UV LAMP (100%) 20X MICROSCOPE	2 WAFERS/RUN < 2 DEFECTS PER FIELD OF VIEW	LOGBOOK
			OXIDE THICKNESS	NANOSPEC	3 WAFERS/CYCLE	
	PLASMA NITRIDE STRIP	RF PLASMA ETCH	VISUAL	UV LAMP (100%) 20X MICROSCOPE	2 WAFERS/RUN < 2 DEFECTS PER FIELD OF VIEW	LOGBOOK
	CMOS CAP MASK	RESIST MASK HF ETCHANT BATH	CRITICAL DIMENSIONS	OPTICAL MICROSCOPE 100X	"Z" PATTERN SCAN 100% OF THE WAFERS	PRODUCTION LOG
	CAP IMPLANT	IMPLANT	-	-	-	LOGBOOK
	CMOS STRIP RESIST	RF PLASMA SULFURIC ACID	VISUAL INSPECTION	MICROSCOPE 100X	"Z" PATTERN SCAN 100% OF THE WAFERS	LOGBOOK
	ETCH PAD OXIDE	HF ETCHANT BATH	-	-	-	LOGBOOK
	GATE OXIDE	OXIDATION FURNACE	VISUAL	UV LAMP (100%) 20X MICROSCOPE	2 WAFERS/RUN < 2 DEFECTS PER FIELD OF VIEW	AS APPLICABLE LOGBOOK PASSIVE CRITICAL NODE > 2.0
			P CH OXIDE THICKNESS	NANOSPEC	3 WAFERS/CYCLE	
			VISUAL	UV LAMP (100%) 20X MICROSCOPE	2 WAFERS/RUN < 2 DEFECTS PER FIELD OF VIEW	LOGBOOK
			N CH OXIDE THICKNESS	NANOSPEC	3 WAFERS/CYCLE	
	VTP IMPLANT MASK	RESIST MASK HF ETCHANT BATH	VISUAL	OPTICAL MICROSCOPE 100X	"Z" PATTERN SCAN 100% OF THE WAFERS	PRODUCTION LOG

FLOW CHART INCOMNG FAB REWORK	PROCESS STEP	DESCRIPTION	INSPECTION/ TEST CRITERIA	METHOD & EQUIPMENT	SAMPLING PLAN	SPC TECHNIQUE
	BORON VT IMPLANT	IMPLANT	-	-	-	LOGBOOK
	CMOS STRIP RESIST	RF PLASMA SULFURIC ACID	VISUAL INSPECTION	MICROSCOPE 100X	"Z" PATTERN SCAN 100% OF THE WAFERS	LOGBOOK
	POLY DEPOSITION	FURNACE	POLY THICKNESS	-	-	AS APPLICABLE LOGBOOK PASSIVE CRITICAL NODE > 2.0
	BACK ETCH MASK	RESIST MASK RF PLASMA AND HF ETCH BATH	VISUAL	UV LAMP (100%) 20X MICROSCOPE	2 WAFERS/RUN < 2 DEFECTS PER FIELD OF VIEW	LOGBOOK
	SINKER PRE DEPOSITION	DEPOSITION FURNACE	VISUAL	UV LAMP (100%) 20X MICROSCOPE	100% <10 DEFECTS PER WAFER	TREND CHART
			RS (OHMS/SQ)	4 POINT PROBE	2 TEST WAFERS PER RUN	
	CMOS GATE MASK	RESIST MASK RF PLASMA AND HF ETCHANT BATH	VISUAL INSPECTION	OPTICAL MICROSCOPE 100X	"Z" PATTERN SCAN 100% OF THE WAFERS	AS APPLICABLE PRODUCTION LOG PASSIVE CRITICAL NODE > 2.0
	P+ IMPLANT MASK	RESIST MASK	VISUAL INSPECTION	OPTICAL MICROSCOPE 100X	"Z" PATTERN SCAN 100% OF THE WAFERS	PRODUCTION LOG
	P+ S/D IMPLANT	IMPLANT	-	-	-	LOGBOOK

FLOW CHART INCOMNG FAB REWORK	PROCESS STEP	DESCRIPTION	INSPECTION/ TEST CRITERIA	METHOD & EQUIPMENT	SAMPLING PLAN	SPC TECHNIQUE
	CMOS STRIP RESIST	RF PLASMA SULFURIC ACID	VISUAL INSPECTION	MICROSCOPE 100X	"Z" PATTERN SCAN 100% OF THE WAFERS	PRODUCTION LOG
	N+ IMPLANT MASK	RESIST MASK	VISUAL INSPECTION	MICROSCOPE 100X	"Z" PATTERN SCAN 100% OF THE WAFERS	LOGBOOK
	N+ S/D IMPLANT	IMPLANT	-	-	-	LOGBOOK
	CMOS STRIP RESIST	RF PLASMA SULFURIC ACID	VISUAL INSPECTION	MICROSCOPE 100X	"Z" PATTERN SCAN 100% OF THE WAFERS	LOGBOOK
	SOURCE DRAIN REOX	OXIDATION FURNACE	VISUAL	UV LAMP (100%) 20X MICROSCOPE	2 WAFERS/RUN < 2 DEFECTS PER FIELD OF VIEW	LOGBOOK
			P + OXIDE THICKNESS	NANOSPEC	3 WAFERS/CYCLE	
			VISUAL	UV LAMP (100%) 20X MICROSCOPE	2 WAFERS/RUN < 2 DEFECTS PER FIELD OF VIEW	
			N + OXIDE THICKNESS	NANOSPEC	3 WAFERS/CYCLE	
	LPOE	LPOE LPCVD FURNACE	VISUAL	UV LAMP (100%) 20X MICROSCOPE	2 WAFERS/RUN < 2 DEFECTS PER FIELD OF VIEW	AS APPLICABLE LOGBOOK PASSIVE CRITICAL NODE 1.61 - > 2.0
			LPOE THICKNESS	NANOSPEC	3 WAFERS/CYCLE	
	CMOS GETTER	FURNACE	RS (OHMS/SQ)	4 POINT PROBE	2 TEST WAFERS PER RUN	TREND CHART

FLOW CHART INCOMNG FAB REWORK	PROCESS STEP	DESCRIPTION	INSPECTION/ TEST CRITERIA	METHOD & EQUIPMENT	SAMPLING PLAN	SPC TECHNIQUE
	CMOS CONTACT MASK	RESIST MASK HF ETCHANT BATH	UV VISUAL VISUAL INSPECTION	UV LAMP (100%) 20X MICROSCOPE MICROSCOPE 100X	2 WAFERS/RUN < 2 DEFECTS PER FIELD OF VIEW "Z" PATTERN SCAN 100% OF THE WAFERS	PRODUCTION LOG
	ALUMINUM DEPOSITION	DEPOSITI ON SPUTTER MACHINE	VISUAL RS (OHMS/SQ)	UV LAMP 4 POINT PROBE	<5 DEFECTS PER WAFER 100% 2 TEST CHIP/CYCLE	LOGBOOK
	CMOS METAL MASK	RESIST MASK METAL ETCHANT BATH	FINAL INSPECT CRITICAL DIMENSIONS	OPTICAL MICROSCOPE 2 200X 1000X	"Z" PATTERN SCAN 100% OF THE WAFERS CRITICAL DIMENSION MEASURE 2 WAFERS PER RUN LOT, ACCEPT ON Ø FAILURES	AS APPLICABLE PRODUCTION LOG PASSIVE CRITICAL NODE > 2.0
	ALLOY	ANNEAL FURNACE	VISUAL	UV LAMP	100% <10 DEFECTS PER WAFER	LOGBOOK
	ELECTRICAL TEST	LOMAC PARAMETRIC ANALYZER			EVERY WAFER	LOGBOOK
	LPOM	PASSIVATION LPCVD FURNACE	VISUAL LPOM THICKNESS PHOSPHOROUS CONCENTRATION	UV LAMP 10X MICROSCOPE NANOSPEC 10:1 HF ETCH RATE	100%, MORE THAN 2 COLOR CHANGE IS FAIL. 3 WAFERS/CYCLE <3 DEFECTS/PER FIELD OF VIEW. 3 WAFERS / CYCLE 3 WAFERS / CYCLE	AS APPLICABLE TREND CHART PASSIVE CRITICAL NODE 1.5 - > 2.0

FLOW CHART INCOMNG FAB REWORK	PROCESS STEP	DESCRIPTION	INSPECTION/ TEST CRITERIA	METHOD & EQUIPMENT	SAMPLING PLAN	SPC TECHNIQUE
	PEN	PECVD NITRIDE DEPOSITION FURNACE	VISUAL	UV LAMP	100%. MORE THAN 2 COLOR CHANGE IS FAIL.	TREND CHART
				10X MICROSCOPE	3 WAFERS/CYCLE <5 DEFECTS/PER FIELD OF VIEW.	
			PEN THICKNESS	NANOSPEC	3 WAFERS / CYCLE	
			INDEX OF REFRACTION	ELIPSOMETER	3 WAFERS / CYCLE	
	PAD MASK	RESIST MASK RF PLASMA ETCH AND HF ETCHANT BATH	FINAL INSPECT	OPTICAL MICROSCOPE 100X	"Z" PATTERN SCAN 100% OF THE WAFERS.	PRODUCTION LOG
	ELECTRICAL TEST	LOMAC PARAMETRIC ANALYZER	-	-	100%	LOGBOOK
	BACKLAP	DISCO	N/A	N/A	N/A	LOGBOOK
	BACKSIDE GOLD	BACKSIDE METALIZATION	VISUAL	UN-AIDED EYE	100%	
	SEM	STEP COVERAGE	2 PHOTOS	SCANNING ELECTRON MICROSCOPE	CMOS = 1 WAFER PER WEEK N WELL & P WELL = 1 WAFER EVERY RUN	LOGBOOK
		GENERAL METAL	1 PHOTO			