

PRODUCT / PROCESS CHANGE NOTIFICATION

1. PCN basic data

1.1 Company		STMicroelectronics International N.V
1.2 PCN No.		ADG/20/12173
1.3 Title of PCN		SPC560Pxx (FP50): Activation of TSMC as Additional Diffusion Plant (Following PCI ADG/19/11411)
1.4 Product Category		see list
1.5 Issue date		2020-05-25

2. PCN Team

2.1 Contact supplier		
2.1.1 Name		ROBERTSON HEATHER
2.1.2 Phone		+1 8475853058
2.1.3 Email		heather.robertson@st.com
2.2 Change responsibility		
2.2.1 Product Manager		Luca RODESCHINI
2.1.2 Marketing Manager		Selica RUSSI
2.1.3 Quality Manager		Alberto MERVIC

3. Change

3.1 Category	3.2 Type of change	3.3 Manufacturing Location
Transfer	Line transfer for a full process or process brick (process step, control plan, recipes) from one site to another site: Wafer fabrication	TSMC Subcontractor recipient (Taiwan)

4. Description of change

	Old	New
4.1 Description	ST Crolles Diffusion Plant	ST Crolles (France) Diffusion plant TSMC (Taiwan) Additional Diffusion Plant
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	No Impact	

5. Reason / motivation for change

5.1 Motivation	Dual sourcing strategy. Following PCI ADG/19/11411 dated March 2019
5.2 Customer Benefit	CAPACITY INCREASE

6. Marking of parts / traceability of change

6.1 Description	Dedicated Finished Good Codes
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7. Timing / schedule

7.1 Date of qualification results	2020-05-19
7.2 Intended start of delivery	2020-10-01
7.3 Qualification sample available?	Upon Request

8. Qualification / Validation

8.1 Description	12173 Validation.zip		
8.2 Qualification report and qualification results	Available (see attachment)	Issue Date	2020-05-25

9. Attachments (additional documentations)

12173 Public product.pdf
12173 Validation.zip
12173 Details.pdf

10. Affected parts

10. 1 Current		10.2 New (if applicable)
10.1.1 Customer Part No	10.1.2 Supplier Part No	10.1.2 Supplier Part No
	SPC560P44L3BEAAY	
	SPC560P44L3CEFAR	
	SPC560P50L3BEABR	
	SPC560P50L3CEFAR	
	SPC560P50L3CEFAY	
	SPC560P50L5CEFAR	

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PRODUCT/PROCESS CHANGE NOTIFICATION

SUBJECT	SPC560Pxx (FP50): Activation of TSMC as Additional Diffusion Plant (Following PCI ADG/19/11411)							
IMPACTED PRODUCTS	ST silicon line FP50 assembled in different packages:							
	<table border="1"> <thead> <tr> <th>PACKAGE DESCRIPTION</th><th>COMMERCIAL PRODUCT</th></tr> </thead> <tbody> <tr><td>LQFP 100 14x14x1.4</td><td>SPC560P44L3BEAAR SPC560P44L3BEAAY SPC560P44L3CEABR SPC560P44L3CEABY SPC560P44L3CEFAR SPC560P44L3CEFAY SPC560P50L3B1ABR SPC560P50L3B1ABY SPC560P50L3B2ABR SPC560P50L3B2ABY SPC560P50L3B2FAR SPC560P50L3B2FAY SPC560P50L3BEABR SPC560P50L3BEABY SPC560P50L3BEFAR SPC560P50L3BEFAY SPC560P50L3C2FBR SPC560P50L3C2FBY SPC560P50L3CEFAR SPC560P50L3CEFAY SPC560P50L3CEFB SPC560P50L3CEFBY SPC560P50L3ENGCU SPC560P50L5BEAAR SPC560P50L5BEAAY SPC560P50L5BEABR SPC560P50L5BEABY SPC560P50L5BEFAR SPC560P50L5BEFAY SPC560P50L5CEFAR SPC560P50L5CEFAY SPC560P50L5ENQCU</td></tr> <tr><td>LQFP 144 20X20X1.4</td><td></td></tr> </tbody> </table>	PACKAGE DESCRIPTION	COMMERCIAL PRODUCT	LQFP 100 14x14x1.4	SPC560P44L3BEAAR SPC560P44L3BEAAY SPC560P44L3CEABR SPC560P44L3CEABY SPC560P44L3CEFAR SPC560P44L3CEFAY SPC560P50L3B1ABR SPC560P50L3B1ABY SPC560P50L3B2ABR SPC560P50L3B2ABY SPC560P50L3B2FAR SPC560P50L3B2FAY SPC560P50L3BEABR SPC560P50L3BEABY SPC560P50L3BEFAR SPC560P50L3BEFAY SPC560P50L3C2FBR SPC560P50L3C2FBY SPC560P50L3CEFAR SPC560P50L3CEFAY SPC560P50L3CEFB SPC560P50L3CEFBY SPC560P50L3ENGCU SPC560P50L5BEAAR SPC560P50L5BEAAY SPC560P50L5BEABR SPC560P50L5BEABY SPC560P50L5BEFAR SPC560P50L5BEFAY SPC560P50L5CEFAR SPC560P50L5CEFAY SPC560P50L5ENQCU	LQFP 144 20X20X1.4		
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LQFP 144 20X20X1.4								

MANUFACT. STEP	Silicon Diffusion (Front End).																																																																																																																																																																																																																																																																																																																																																																																																																																							
INVOLVED PLANT	TSMC (recipient Plant – ST Subcontractor) Fab14A 300mm located in Tainan (Taiwan) - Automotive qualified and certified IATF16949.																																																																																																																																																																																																																																																																																																																																																																																																																																							
CHANGE REASON	Expansion of current silicon diffusion capacity (volumes increase) and flexible/secure production asset – dual sourcing strategy.																																																																																																																																																																																																																																																																																																																																																																																																																																							
CHANGE DESCRIPTION	Activation of TSMC Fab14A as additional or alternative source for CMOS-M10 technology microcontrollers, following related product qualification according to automotive standards (AEC-Q100 – Q006).																																																																																																																																																																																																																																																																																																																																																																																																																																							
TRACEABIL.	New dedicated Finished Good code (Internal Part Number).																																																																																																																																																																																																																																																																																																																																																																																																																																							
VALIDATION	According to AEC-Q100 qualification plan for Integrated Circuits and ZVEI Guideline (change description: SEM-PW-13 Move of all or part of wafer fab to a different location/site/subcontractor):																																																																																																																																																																																																																																																																																																																																																																																																																																							
	<table border="1"> <thead> <tr> <th colspan="2" data-bbox="455 741 505 758">Line evaluation (can be evaluated by data or audit on site check)</th> <th colspan="18" data-bbox="505 741 1286 758">AEC-Q100 Revision H</th> </tr> <tr> <th colspan="2"></th> <th colspan="18"></th> </tr> </thead> <tbody> <tr> <td data-bbox="455 766 505 783">THB</td><td data-bbox="505 766 554 783">Temperature-Humidity Bias or biased HAST</td><td data-bbox="554 766 605 783">A2</td><td data-bbox="605 766 654 783">A3</td><td data-bbox="654 766 705 783">AC</td><td data-bbox="705 766 753 783">Autoclave or Unbiased HAST</td><td data-bbox="753 766 802 783">TC</td><td data-bbox="802 766 853 783">Temperature Cycling</td><td data-bbox="853 766 902 783">PTC</td><td data-bbox="902 766 953 783">Power Temperature Cycling</td><td data-bbox="953 766 1002 783">HTOL</td><td data-bbox="1002 766 1052 783">High Temperature Operating Life</td><td data-bbox="1052 766 1101 783">ELFR</td><td data-bbox="1101 766 1152 783">Early Life Failure Rate</td><td data-bbox="1152 766 1201 783">EDR</td><td data-bbox="1201 766 1250 783">NVM Endurance, Data Retention, and Operational Life</td><td data-bbox="1250 766 1300 783">WBS</td><td data-bbox="1300 766 1349 783">Wire Bond Shear</td><td data-bbox="1349 766 1400 783">WBP</td><td data-bbox="1400 766 1449 783">Wire Bond Pull</td><td data-bbox="1449 766 1499 783">EN</td><td data-bbox="1499 766 1548 783">Electromigration</td><td data-bbox="1548 766 1599 783">D1</td><td data-bbox="1599 766 1632 783">D2</td><td data-bbox="1648 766 1632 783">TDDB</td><td data-bbox="1697 766 1632 783">Time Dependent Dielectric Breakdown</td><td data-bbox="1747 766 1632 783">HCI</td><td data-bbox="1796 766 1632 783">Hot Carrier Injection</td><td data-bbox="1847 766 1632 783">NBTI</td><td data-bbox="1896 766 1632 783">Negative Bias Temperature Instability</td><td data-bbox="1946 766 1632 783">SM</td><td data-bbox="1995 766 1632 783">Stress Migration</td><td data-bbox="2044 766 1632 783">HBM</td><td data-bbox="2095 766 1632 783">Electronic Discharge Human Body Model</td><td data-bbox="2144 766 1632 783">CDM</td><td data-bbox="2195 766 1632 783">Electronic Discharge Charged Device Model</td><td data-bbox="2244 766 1632 783">E4</td><td data-bbox="2294 766 1632 783">E5</td><td data-bbox="2343 766 1632 783">ED</td><td data-bbox="2394 766 1632 783">Electrical Distribution</td><td data-bbox="2443 766 1632 783">MECH</td><td data-bbox="2492 766 1632 783">Hermetic Package Test</td><td data-bbox="2542 766 1632 783">G1-4</td><td data-bbox="2591 766 1632 783">G7</td><td data-bbox="2642 766 1632 783">DS</td><td data-bbox="2691 766 1632 783">Die Shear</td><td data-bbox="2741 766 1632 783">Parameter Analysis</td><td data-bbox="2790 766 1632 783">Contention of current with channelized device characterization</td><td data-bbox="2841 766 1632 783">Electrical distribution</td><td data-bbox="2890 766 1632 783">For Cu Wire Products</td><td data-bbox="2939 766 1632 783">Consider AEC-Q208</td> </tr> 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data-bbox="14266 783 1632 798">D272</td><td data-bbox="14315 783 1632 798">D273</td><td data-bbox="14366 783 1632 798">D274</td><td data-bbox="14415 783 1632 798">D275</td><td data-bbox="14466 783 1632 798">D276</td><td data-bbox="14515 783 1632 798">D277</td><td data-bbox="14565 783 1632 798">D278</td><td data-bbox="14614 783 1632 798">D279</td><td data-bbox="14665 783 1632 798">D280</td><td data-bbox="14714 783 1632 798">D281</td><td data-bbox="14763 783 1632 798">D282</td><td data-bbox="14813 783 1632 798">D283</td><td data-bbox="14862 783 1632 798">D284</td><td data-bbox="14913 783 1632 798">D285</td><td data-bbox="14962 783 1632 798">D286</td><td data-bbox="15012 783 1632 798">D287</td><td data-bbox="15061 783 1632 798">D288</td><td data-bbox="15112 783 1632 798">D289</td><td data-bbox="15161 783 1632 798">D290</td><td data-bbox="15210 783 1632 798">D291</td><td data-bbox="15260 783 1632 798">D292</td><td data-bbox="15309 783 1632 798">D293</td><td data-bbox="15360 783 1632 798">D294</td><td data-bbox="15409 783 1632 798">D295</td><td data-bbox="15459 783 1632 798">D296</td><td data-bbox="15508 783 1632 798">D297</td><td data-bbox="15557 783 1632 798">D298</td><td data-bbox="15608 783 1632 798">D299</td><td data-bbox="15657 783 1632 798">D300</td><td data-bbox="15707 783 1632 798">D301</td><td data-bbox="15756 783 1632 798">D302</td><td data-bbox="15807 783 1632 798">D303</td><td data-bbox="15856 783 1632 798">D304</td><td data-bbox="15907 783 1632 798">D305</td><td data-bbox="15956 783 1632 798">D306</td><td data-bbox="16005 783 1632 798">D307</td><td data-bbox="16055 783 1632 798">D308</td><td data-bbox="16104 783 1632 798">D309</td><td data-bbox="16155 783 1632 798">D310</td><td data-bbox="16204 783 1632 798">D311</td><td data-bbox="16254 783 1632 798">D312</td><td data-bbox="16303 783 1632 798">D313</td><td data-bbox="16354 783 1632 798">D314</td><td data-bbox="16403 783 1632 798">D315</td><td data-bbox="16452 783 1632 798">D316</td><td data-bbox="16502 783 1632 798">D317</td><td data-bbox="16551 783 1632 798">D318</td><td data-bbox="16602 783 1632 798">D319</td><td data-bbox="16651 783 1632 798">D320</td><td data-bbox="16701 783 1632 798">D321</td><td data-bbox="16750 783 1632 798">D322</td><td data-bbox="16801 783 1632 798">D323</td><td data-bbox="16850 783 1632 798">D324</td><td data-bbox="16899 783 1632 798">D32</td></tr></tbody></table>	Line evaluation (can be evaluated by data or audit on site check)		AEC-Q100 Revision H																																						THB	Temperature-Humidity Bias or biased HAST	A2	A3	AC	Autoclave or Unbiased HAST	TC	Temperature Cycling	PTC	Power Temperature Cycling	HTOL	High Temperature Operating Life	ELFR	Early Life Failure Rate	EDR	NVM Endurance, Data Retention, and Operational Life	WBS	Wire Bond Shear	WBP	Wire Bond Pull	EN	Electromigration	D1	D2	TDDB	Time Dependent Dielectric Breakdown	HCI	Hot Carrier Injection	NBTI	Negative Bias Temperature Instability	SM	Stress Migration	HBM	Electronic Discharge Human Body Model	CDM	Electronic Discharge Charged Device Model	E4	E5	ED	Electrical Distribution	MECH	Hermetic Package Test	G1-4	G7	DS	Die Shear	Parameter Analysis	Contention of current with channelized device characterization	Electrical distribution	For Cu Wire Products	Consider AEC-Q208	A4	A5	B1	B2	B3	C1	C2	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20	D21	D22	D23	D24	D25	D26	D27	D28	D29	D30	D31	D32	D33	D34	D35	D36	D37	D38	D39	D40	D41	D42	D43	D44	D45	D46	D47	D48	D49	D50	D51	D52	D53	D54	D55	D56	D57	D58	D59	D60	D61	D62	D63	D64	D65	D66	D67	D68	D69	D70	D71	D72	D73	D74	D75	D76	D77	D78	D79	D80	D81	D82	D83	D84	D85	D86	D87	D88	D89	D90	D91	D92	D93	D94	D95	D96	D97	D98	D99	D100	D101	D102	D103	D104	D105	D106	D107	D108	D109	D110	D111	D112	D113	D114	D115	D116	D117	D118	D119	D120	D121	D122	D123	D124	D125	D126	D127	D128	D129	D130	D131	D132	D133	D134	D135	D136	D137	D138	D139	D140	D141	D142	D143	D144	D145	D146	D147	D148	D149	D150	D151	D152	D153	D154	D155	D156	D157	D158	D159	D160	D161	D162	D163	D164	D165	D166	D167	D168	D169	D170	D171	D172	D173	D174	D175	D176	D177	D178	D179	D180	D181	D182	D183	D184	D185	D186	D187	D188	D189	D190	D191	D192	D193	D194	D195	D196	D197	D198	D199	D200	D201	D202	D203	D204	D205	D206	D207	D208	D209	D210	D211	D212	D213	D214	D215	D216	D217	D218	D219	D220	D221	D222	D223	D224	D225	D226	D227	D228	D229	D230	D231	D232	D233	D234	D235	D236	D237	D238	D239	D240	D241	D242	D243	D244	D245	D246	D247	D248	D249	D250	D251	D252	D253	D254	D255	D256	D257	D258	D259	D260	D261	D262	D263	D264	D265	D266	D267	D268	D269	D270	D271	D272	D273	D274	D275	D276	D277	D278	D279	D280	D281	D282	D283	D284	D285	D286	D287	D288	D289	D290	D291	D292	D293	D294	D295	D296	D297	D298	D299	D300	D301	D302	D303	D304	D305	D306	D307	D308	D309	D310	D311	D312	D313	D314	D315	D316	D317	D318	D319	D320	D321	D322	D323	D324	D32
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A4	A5	B1	B2	B3	C1	C2	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20	D21	D22	D23	D24	D25	D26	D27	D28	D29	D30	D31	D32	D33	D34	D35	D36	D37	D38	D39	D40	D41	D42	D43	D44	D45	D46	D47	D48	D49	D50	D51	D52	D53	D54	D55	D56	D57	D58	D59	D60	D61	D62	D63	D64	D65	D66	D67	D68	D69	D70	D71	D72	D73	D74	D75	D76	D77	D78	D79	D80	D81	D82	D83	D84	D85	D86	D87	D88	D89	D90	D91	D92	D93	D94	D95	D96	D97	D98	D99	D100	D101	D102	D103	D104	D105	D106	D107	D108	D109	D110	D111	D112	D113	D114	D115	D116	D117	D118	D119	D120	D121	D122	D123	D124	D125	D126	D127	D128	D129	D130	D131	D132	D133	D134	D135	D136	D137	D138	D139	D140	D141	D142	D143	D144	D145	D146	D147	D148	D149	D150	D151	D152	D153	D154	D155	D156	D157	D158	D159	D160	D161	D162	D163	D164	D165	D166	D167	D168	D169	D170	D171	D172	D173	D174	D175	D176	D177	D178	D179	D180	D181	D182	D183	D184	D185	D186	D187	D188	D189	D190	D191	D192	D193	D194	D195	D196	D197	D198	D199	D200	D201	D202	D203	D204	D205	D206	D207	D208	D209	D210	D211	D212	D213	D214	D215	D216	D217	D218	D219	D220	D221	D222	D223	D224	D225	D226	D227	D228	D229	D230	D231	D232	D233	D234	D235	D236	D237	D238	D239	D240	D241	D242	D243	D244	D245	D246	D247	D248	D249	D250	D251	D252	D253	D254	D255	D256	D257	D258	D259	D260	D261	D262	D263	D264	D265	D266	D267	D268	D269	D270	D271	D272	D273	D274	D275	D276	D277	D278	D279	D280	D281	D282	D283	D284	D285	D286	D287	D288	D289	D290	D291	D292	D293	D294	D295	D296	D297	D298	D299	D300	D301	D302	D303	D304	D305	D306	D307	D308	D309	D310	D311	D312	D313	D314	D315	D316	D317	D318	D319	D320	D321	D322	D323	D324	D32																																																																																													

**CURRENT
PRODUCTS**

Current product (silicon line FB50) will be transferred to TSMC Fab14A Taiwan. ST Crolles 300mm diffusion line will remain active as alternate solution.

Together with the above activity, opportunity is taken to rationalize products portfolio, by terminating some impacted devices (PTN – Product termination Notice in progress), as per below table:

PACKAGE DESCRIPTION	COMMERCIAL PRODUCT	PTN	REPLACEMENT
LQFP 100 14x14x1.4	SPC560P44L3BEAAR	YES	SPC560P44L3BEAAY
	SPC560P44L3BEAAY	NO	
	SPC560P44L3CEABR	YES	SPC560P44L3CEFAR
	SPC560P44L3CEABY	YES	SPC560P44L3CEFAR
	SPC560P44L3CEFAR	NO	
	SPC560P44L3CEFAY	YES	SPC560P44L3CEFAR
	SPC560P50L3B1ABR	YES	SPC560P50L3B2ABR
	SPC560P50L3B1ABY	YES	SPC560P50L3BEABY
	SPC560P50L3B2ABR	NO	
	SPC560P50L3B2ABY	YES	SPC560P50L3BEABY
	SPC560P50L3B2FAR	NO	SPC560P50L3CEFAR
	SPC560P50L3B2FAY	YES	SPC560P50L3BEABY
	SPC560P50L3BEABR	NO	
	SPC560P50L3BEABY	NO	
	SPC560P50L3BEFAR	YES	SPC560P50L3CEFAR
	SPC560P50L3BEFAY	YES	SPC560P50L3BEABY
	SPC560P50L3C2FBR	YES	SPC560P50L3CEFBR
	SPC560P50L3C2FBY	YES	SPC560P50L3BEABY
	SPC560P50L3CEFAR	NO	
LQFP 144 20X20X1.4	SPC560P50L3CEFAY	YES	SPC560P50L3BEABY
	SPC560P50L3CEFBR	NO	
	SPC560P50L3CEFBY	YES	SPC560P50L3BEABY
	SPC560P50L3ENGCU	YES	SPC560P50L3CEFBR
	SPC560P50L5BEAAR	YES	SPC560P50L5BEFAR
	SPC560P50L5BEAAY	YES	SPC560P50L5BEFAR
	SPC560P50L5BEABR	YES	SPC560P50L5BEFAR
	SPC560P50L5BEABY	YES	SPC560P50L5BEFAR
	SPC560P50L5BEFAR	NO	
	SPC560P50L5BEFAY	YES	SPC560P50L5BEFAR
	SPC560P50L5CEFAR	NO	
	SPC560P50L5CEFAY	YES	SPC560P50L5CEFAY
	SPC560P50L5ENQCU	YES	SPC560P50L5CEFAY

REPORTS

Validation procedure and results are reported in the attached Reliability Report (AEC-Q100/Q006) and Electrical Validation Report.

[12173 Validation.zip](#)



Public Products List

Public Products are off the shelf products. They are not dedicated to specific customers, they are available through ST Sales team, or Distributors, and visible on ST.com

PCN Title : SPC560Pxx (FP50): Activation of TSMC as Additional Diffusion Plant (Following PCI ADG/19/11411)

PCN Reference : ADG/20/12173

Subject : Public Products List

Dear Customer,

Please find below the Standard Public Products List impacted by the change.

SPC560P50L3BEABY	SPC560P50L5BEFAR	SPC560P44L3CEFAR
SPC560P50L3CEFAR	SPC560P50L3BEABR	SPC560P44L3BEAAY
SPC560P50L3CEFBR	SPC560P50L5CEFAR	SPC560P50L3BEFAY
SPC560P50L3CEFBY	SPC560P50L3BEFAR	SPC560P44L3BEAAR
SPC560P44L3CEABR	SPC560P50L5BEAAR	SPC560P44L3CEFAY
SPC560P50L3CEFAY	SPC560P50L5BEABR	SPC560P50L5BEFAY
SPC560P50L5BEABY	SPC560P50L5BEAAY	SPC560P50L5CEFAY
SPC560P44L3CEABY		



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