PCN Number:	20150317004A	**PCN Date:**	08/11/2015
Title:	DLPA3000 & DLPA3005 A3 Redesign		
Customer Contact:	Dlp_pcn_team@list.ti.com	**Dept:**	DLP® CQE
Proposed 1st Ship Date:	August 5, 2015	**Estimated Sample Availability:**	May 5, 2015

Change Type:

☐	Assembly Site	☒	Design	☐	Wafer Bump Site
☐	Assembly Process	☐	Data Sheet	☐	Wafer Bump Material
☐	Assembly Materials	☐	Part number change	☐	Wafer Bump Process
☐	Mechanical Specification	☐	Test Site	☐	Wafer Fab Site
☐	Packing/Shipping/Labeling	☐	Test Process	☐	Wafer Fab Materials
				☐	Wafer Fab Process

PCN Details

Description of Change:

Texas Instruments Incorporated is announcing final notification for qualification of the DLPA3000 A3 Re-design. System validation is in progress on DLPA3005. A final PCN addendum will be provided for DLPA3005 upon completion of the system validation.

The First Ship Date is updated as indicated in the initial PCN addendum.

Reason for Change:

Design Enhancements
-Low Vin to allow 6VIN, supports dual battery implementations.
-High Vin to allow +20VIN FOR PAD 3000
~~-Activate all 3GP ANC Bucks~~

* Texas Instruments was unable to incorporate the activation of all three General Purpose (GP) bucks in PAD3000 A3 design change. General Purpose Buck2 (PWR6) is currently supported as stated in the data sheet.
* On PAD3005, System Validation is in progress. A final PCN addendum will be provided for DLPA3005 upon completion of the system validation.

Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):

Additional Functions - See Reasons for Change section directly above.

Changes to product identification resulting from this PCN:

The part will be marked with revision D instead of revision C.
Example:

- Current Marking DLPA3000**C** will become DLPA3000**D**
- Current Marking DLPA3005**C** will become DLPA3005**D**

Product Affected:

DLPA3000CPFD, DLPA3000CPFDR, DLPA3005CPFD, DLPA3005CPFDR, PAD3000A2PFD, PAD3000A2PFDR, PAD3005A2PFD, PAD3005A2PFDR

Qualification Data

This qualification has been developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.

Qualification Schedule:	**Start:**	May 25, 2015	**End:**	June 25, 2015

Qual Vehicle: Device Vehicle (DLPA3000D)

Qualification: ☐ **Plan** ☒ **Test Results**

DLPA3000D Qualification Data

Test	Conditions	Read Points	Sample Size/ Results
A. Life Test:			
High Temperature Operating Life	140C	480 hours	QBS(1)
B. Environmental Tests:			
Preconditioning + Temperature Cycling:			
(a) Preconditioning	MSL2; 85C/60%RH	168hrs	QBS(1)
(b) Temperature Cycling	-65C/+150C	500 cycles	QBS(1)
ESD	HBM	+/- 2000V	QBS(1)
ESD	CDM	+/- 750V	QBS(1)
Electrical Characterization	Per data sheet		30 (each)/ Pass
Latch Up	70C	+/- 100mA	QBS(1)
C. Inspection Tests:			
X-Ray	Top view only		QBS(1)
D. Other			
Manufacturing Qual	TITL ERTP		1 lot (each)/ Pass

Notes:

1) QBS (Qual by Similarity) to DLPA3000C

For questions regarding this notice, e-mails can be sent to the regional contacts shown below or your local Field Sales Representative.

Location	E-Mail
DLP PCN Team	dlp_pcn_team@ti.com
USA	PCNAmericasContact@list.ti.com
Europe	PCNEuropeContact@list.ti.com
Asia Pacific	PCNAsiaContact@list.ti.com
Japan	PCNJapanContact@list.ti.com