

# CUSTOMER ENGINEERING APPROVAL FORM

--To be completed by the Engineering Project Lead and forwarded to Application Support--

## AUTHOR SECTION

**CEAF # (ddmmyy-x):** CEAF20130207-2.

**CEAF Type (Check one)**       CEAF       Change Notification       Awareness

**Technical Configuration(s) (Engine Family) Affected:** D193103GX03 (all QSK19 PG ratings)

**Market(s) Impacted:** PowerGen/G-Drive

**Anticipated (Cummins) Production Date (mm/yy):** April, 2013

**Option(s) Affected:** See the options listed in the table below.

- (Check all that apply.)
- New option(s)
  - Existing option(s) being revised.
  - New option(s) being released & existing option(s) being obsoleted.
  - New option(s) being released & existing option(s) being superseded/obsoleted.
  - Option(s) being superseded &/or obsoleted.

**Description & Reason for Proposed Design Change:** All G-Drive/PowerGen QSK19 products with MCRS fuel system will be transitioning to new C3 injectors and associated hardware. This is being introduced as a continuous product improvement over C2. Currently QSK19-G2 and QSK19-G3 with C2.0 injectors are restricted in COLS and NOT available for production anymore and are replaced by new C3.0 ratings: QSK19-G4 and G5. Please refer to the new FR/DO/GDRV/PRIC specs associated to the new C3.0 ratings in the table below. The change will require creating new engine specs for C3.0 ratings.

Please note, new C3.0 ratings will be Tier 2 certified per EPA NSPS, however, currently C3.0 PRIC spec includes a non-certified data plate option (AP) for now. AP options to cover EPA Tier 2 NSPS @Stationary Emergency and TPENT4i (non-cert) are being released for use with new Q19 C3.0 ratings. Customers need to make sure they update their COLS spec/SO with the appropriate AP option within the SO update window before the engine build date.

Please refer to QSK19 PG page on GCE for new tech publications of Q19 C3.0 PG products (engine data sheet, emissions sheets, wiring diagram CM2150, engine installation dwg etc).

C3.0 New Ratings										
QSK19 Power Gen Ratings (D193103GX03)										
Engine Rating	Injector	50hz Rating (1500 RPM)	60hz Rating (1800 RPM)	FR	DO option	CPL/PP	Emissions Options	GDRV	PRIC	Comments
G2 is NOT available @ C3.0										
QSK19-G4	C3.0	850 BHP SB 770 BHP PR 670 BHP CT	850 BHP SB 750 BHP PR 615 BHP CT	FR 4580	DO 4858	CPL 4270 PP44270	EPA TIER 2 NSPS, 2gm TAL at 1500 rpm & TPENT4i (non-cert)	GDRV 610	PRIC 7188	Existing G3 dual speed (50/60 Hz) rating customers will use C3.0 G4 dual speed rating.  Please refer to the engine data sheet on GCE for details on the engine performance data.
QSK19-G5	C3.0	Not available at 50 Hz	897 BHP SB 815 BHP PR 670 BHP CT	FR 4581	DO 4859	CPL3866 PP43866	EPA TIER 2 NSPS & TPENT4i (non-cert)	GDRV 596	PRIC 7080	Existing G3 60 Hz ONLY customers will use G5 60 Hz ONLY rating.  Please refer to the engine data sheet on GCE for details on the engine performance data.

C2.0 ratings are no longer in production and will be obsolete.										
QSK19 Power Gen Ratings (D193103GX03)										
Engine Rating	Injector	50hz Rating (1500 RPM)	60hz Rating (1800 RPM)	FR	CPL/PP	Emissions Options				
G2 NR2	C2.0	811 BHP SB 715 BHP PR 430 BHP CT	850 BHP SB 745 BHP PR 615 BHP CT	FR 4451	CPL 1485 PP 41485	EPA TIER 2 NSPS/ 2gm TAL at 1500 rpm & TPENT4i (non cert)				
G3 NR2	C2.0	850 BHP SB 770 BHP PR 450 BHP CT	897 BHP SB 815 BHP PR 670 BHP CT	FR 4446	CPL 1485 PP 41485	EPA TIER 2 NSPS/ 2gm TAL at 1500 rpm & TPENT4i (non cert)				
G3 NR2	C2.0	850 BHP SB 770 BHP PR 450 BHP CT	897 BHP SB 815 BHP PR 670 BHP CT	FR 4446	CPL 1485 PP 41485	EPA TIER 2 NSPS/ 2gm TAL at 1500 rpm & TPENT4i (non cert)				

**Anticipated Effect on Engine Reliability and Durability:** Improved.

**Author:** AHM (Nur) Nuruzzaman.

**Phone No.:** 812-657-1608.

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