

DGP***AAA			
Item	Version	Ship dates	Comments
A	V001.00000A ①	Prior to 10/14/93	<ul style="list-style-type: none"> • Temporary Prom Version that must be upgraded.
B	V002.21000B ①	10/15/93 to 04/19/94	<ul style="list-style-type: none"> • Added Oscillography data capture, Multiple V/Hz curves, TPL plugs, etc. <p>Also this version is included in modification kit 286A5368G1 (Rev 0, 1) for upgrading the temporary version (A) in DGP systems shipped prior to 9/25/93.</p>
E1	V003.11000E ①	04/20/94 to 05/30/94	<ul style="list-style-type: none"> • Expanded setting ranges of #2501, 1704. • Implemented a routine to correct up to 2 samples over a period of 12 cycles on 87G pickup (alarm 373) to enhance security of function 87G. • Eliminated overflow in a S/W register to enhance security of functions 40 during generator synchronizing.
E2	V003.21000E ①	05/31/94 to 11/30/95	<ul style="list-style-type: none"> • Implemented "TRIP 32-2" display fix. <p>Also this version is included in modification kits 286A5572G1 & 286A5368G1 for upgrading the versions (B), (A) & (E1) in relays shipped prior to 5/31/94.</p>
F1	V004.12400F ①	12/01/95 to 2/24/97	<ul style="list-style-type: none"> • Revised to support both 1 & 5 Amps rated CT's. • Implemented following enhancements: <ul style="list-style-type: none"> - Security of alarms 351 (3 cycles delay in alarming/block 87 in DSP) and 373 (changed the routine to correct 3 samples over a period of 2 cycles with no 373-alarm). These changes also provide added security of function 87G. - Improved performance of IRIG-B time synch feature. - Improved accuracy of function 32 at low watt settings. - Hysteresis for 87G (DO/PU=0.75) to minimize chattering of outputs near the balance point. - Optimized setting ranges of 46A/32-1 timers & K2 factor of 46T, and improved reset characteristics of function 40 timers.
F2	V004.12500F ①	02/25/97 to 02/01/98	<ul style="list-style-type: none"> • Security of 87G enhanced by revised Current Sum routine (increased security delay from 6 to 12 samples). • Enhanced 32-1 & 32-2 performance (at balance-point) by converting TL1 & TL2 to integrating timers (positive direction) & blocking their reset until power flow is either zero or forward. <p>This version is included in modification kit 358A1180G1 for upgrading the version F1 in the DGP systems shipped prior to 02/25/97 and in kit 355A3489G1 for upgrading the versions E & B in the DGP systems shipped prior to 12/01/95.</p>
F3	V212.00000F ①	02/02/98 to 12/18/00	Similar to F2 except implemented simpler Password system.
F4	V212.10000F (Standard)	12/18/00 to Present	<p>Similar to F3 except fixed IRIG-B time-sync (see ECO DGP-011).</p> <p>Use Kit 355A3489 to upgrade from older AA versions.</p>
F1a	V103.21000F ①	4/1/97 to 4/1/99	<p>Similar to PROM F1 except the following: (First made for special DGP**AAAA-0101 for Hydro Quebec; superseded by F1b).</p> <ul style="list-style-type: none"> • FD supervision of 51V disabled. (DOES NOT include enhancements made F2 or later)
F1b	V103.31000F (DGP-AA0102)	4/2/99 to Present	<p>Similar to PROM F1a except compatible with DEC1000A015H00C</p> <ul style="list-style-type: none"> • Printer port configured to print new events only and PRT (Print) key of the MMI disabled.
F1c	V104.12400F (DGP-AA0003)	No Shipment	<p>Similar to PROM F1 except the following: (First made for special DGP**AAAA-0003, compatible with GEPCE's DEC1000)</p> <ul style="list-style-type: none"> • Printer port configured to print new events only and PRT (Print) key of the MMI disabled.

① Indicates PROM's superseded by later release.

DGP***ABA				
Item	Version	Ship dates	Comments	
C	V001.22211C ①	04/22/94 to 11/30/94	<ul style="list-style-type: none"> • Initial release. 	
G1	V005.12400G ①	12/01/95 to 02/24/97	<ul style="list-style-type: none"> • Revised to supports both 1 & 5 Amps rated CT's. • Implemented following enhancements: <ul style="list-style-type: none"> - Security of alarms 351 (3 cycles delay in alarming/block 87 in DSP) and 373 (changed the routine to correct 3 samples over a period of 2 cycles with no 373-alarm). These changes also provide added security of function 87G. - Improved accuracy of function 32 at low watt settings. - Hysteresis for 87G (DO/PU=0.75) to minimize chattering of outputs near the balance point. - Optimized setting ranges of 46A/32-1 timers & K2 factor of 46T, and improved reset characteristics of function 40 timers. <p>This version is included in modification kit 355A3490G1 for upgrading the versions C in DGP systems shipped prior to 12/01/95.</p>	
G2	V005.12500G ①	02/25/97 to 02/01/98	<p>Used for DGP***ABA until superseded by prom J1.</p> <ul style="list-style-type: none"> • Security of 87G enhanced by revised Current Sum routine (increased security delay from 6 to 12 samples). • Enhanced 32-1 performance (at balance-point) by converting TL1 to integrating timer (positive direction) & blocking its reset until power flow is either zero or forward. <p>Also this version is included in modification kit 358A1181G1 for upgrading the version G1 in DGP systems shipped prior to 2/25/97.</p>	
I	V105.12400I ①	04/19/96 to 11/07/96	<p>Similar to G1 except the following: (First made for special DGP**AABA-0202. Used for DGP***ABA-0002 until superseded by prom M).</p> <ul style="list-style-type: none"> • Includes oscillography data capture and IRIG-B capabilities. 	
M1	V105.32400M ①	11/08/96 to 02/24/97	<p>Similar to G1 except the following: (First made for special DGP***ABA-0002 for American Maize).</p> <ul style="list-style-type: none"> • Includes osc data capture and IRIG-B capabilities. • Includes expanded ranges of setting # 114, 1503, & 2903 to accommodate Nominal Voltage of 100.0 - 225.0 VAC. 	
M2	V105.32500M ① (Inactive DGP-BA0002)	02/25/97 to Present	<ul style="list-style-type: none"> • Security of 87G enhanced by revised Current Sum routine (increased security delay from 6 to 12 samples). • Enhanced 32-1 performance (at balance-point) by converting TL1 to integrating timer (positive direction) & blocking its reset until power flow is either zero or forward. 	

① Indicates PROM's superseded by later release.

(see next page for DGP***ABA0005 PROM history)

DGP***ABA0005			
Item	Version	Ship dates	Comments
J	V201.00000J ①	04/11/97 to 02/01/98	Similar to prom M2 except the following: (First made for special DGP***ABA-0005 for Drive Sys./C&C). <ul style="list-style-type: none"> • Includes function 27TN. • Includes timers TL21 & TL22 (0 - 9.99 sec) associated with DI3 & DI4 respectively. • Expanded range of TL1 timer (for 32-1) from 1-120 to 0-120 seconds. This version is included in modification kit 358A1186 for converting DGP-BA to DGP-BA-0005.
J1	V211.01000J ①	02/02/98 to 3/10/98	Similar to J except fixed failure to operate 51GN in Normal mode (it operated correctly in Test mode only), also implemented simpler Password system. Made DGP-BA0005 a standard for the BA models. Included in kit 358A1186 to convert older DGP models to DGP-BA0005.
J2	V211.02000J ①	3/10/98 to 4/29/98	Similar to J1 except fixed 1 Amp version to properly calculate forward power for 27TN supervision. Was off by a factor of 5.
J3	V211.12000J ①	4/30/98 to 5/5/98	Similar to J2 except fixed display of V_3 (phase & neutral) units from % to Volt. The values were in volt even though the unit displayed was %.
J4	V211.22000J (DGP-BA0005) ①	5/6/98 to 12/18/00	Similar to J3 except fixed DI6 performance anomaly. With setting #2508 = DISPROT, DGP-BA was getting FAIL 520 message if it was powered down & then powered up.
J5	V211.32000J (DGP-BA0005) (Standard)	12/18/00 to Present	Similar to J4 except fixed IRIG-B time-sync (see ECO DGP-011). Use kit 358A1186 to convert older DGP models to DGP-BA0005. Currently Standard firmware version for BA models

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DGP****CA			
Item	Version	Ship dates	Comments
D	V210.01000D ①	02/02/98 to 03/10/98	Similar to K2 except the following: <ul style="list-style-type: none"> • Includes 27TN function. • Includes expanded ranges of setting # 114, 1503, & 2903 to accommodate Nominal Voltage of 100.0 - 225.0 VAC. • Expanded TL1, TL2 (functions 32) ranges to 0 - 120 sec & TL21, TL22 (Digital Inputs) ranges to 0 - 9.99 sec. • Includes simpler Password system. • Created kit 361A7507 to convert older DGP models to DGP-CA.
D1	V210.02000D ①	03/10/98 to 4/29/98	Similar to D except fixed 1 Amp version to properly calculate forward power for 27TN supervision. Was off by a factor of 5.
D2	V210.12000D (GE Modem)①	4/30/98 to 12/18/00	Similar to D1 except fixed printer port for proper output. Also fixed display of V ₃ (phase & neutral) units from % to Volt, the values were in volt even though the unit displayed was %.
D3	V210.22000D (GE Modem) (Standard)	12/18/00 to Present	Similar to D2 except fixed IRIG-B time-sync (see ECO DGP-011). Use kit 361A7507 to convert older DGP models to DGP-CA.
H	V106.12400H ①	04/19/96 to 10/17/96	Combines the functions of group A & B (PROM's F1 & G1) with following enhancements: (First made for special DGP**AACA-0004) <ul style="list-style-type: none"> • Added timers TL21 and TL22 (0 - 1.00 sec) for DI3 & DI4 respectively. • Function 59 includes inverse & instantaneous characteristics. • Printer port configured to print new events only and PRT (Print) key of the MMI disabled (to make it compatible with DEC1000).
K1	V106.13410K ①	10/17/96 to 02/24/97	Similar to H except the following: (used for DGP***ACA-0004) <ul style="list-style-type: none"> • Eliminated inadvertent reporting of error #76 • Renumbered INST PU setting of function 59 from 1505 to 1506 • Added setting CURVE # (set #1505) to select inv./definite time for function 59.
K2	V106.13510K ①,②	02/25/97 to 04/25/97	<ul style="list-style-type: none"> • Security of 87G enhanced by revised Current Sum routine (increased security delay from 6 to 12 samples). • Enhanced 32-1 & 32-2 performance (at balance-point) by converting TL1 & TL2 to integrating timers (positive direction) & blocking their reset until power flow is either zero or forward. • Use kit 358A1182G0001 to upgrade K1 to K2.
L	V106.23510L (DGP-CA0004)	04/25/97 to Present	Supersedes PROM K2. Similar to K2 except the following: <ul style="list-style-type: none"> • Expanded ranges of TL1 & TL2 timers (for 32-1 & -2) from 1-120 & 1-60 to 0-120 seconds. • Increased auto-logout time for password protected activities from 15 to 30 minutes following the period of inactivity. Use kit 355A7691G1 for upgrading the versions H or K to L.

① Indicates PROM's superseded by later release.

② A version bearing the same number (but with 32 timer changes only) was sent to Sandwell Eng. To our knowledge, it was NOT installed by Sandwell.

(see next page for DGP***BCA PROM history)

DGP***BCA			
Item	Version	Ship dates	Comments
P	V210.12000P (Modbus) ①	4/26/99 to 12/18/00	Similar to D2 except Modbus Protocol.
P1	V210.22000P (Modbus) ①	12/18/00 to 06/25/02	Similar to P except fixed IRIG-B time-sync and VARS display for MODBUS (see ECO DGP-011). Use kit MOD_001 to convert models DGP***ACA to DGP***BCA
P2	V210.32000P (Modbus) (Standard)	06/25/02 to Present	Same as P2 except SOE that are outputted from PL-2 were corrected (see ECO DGP-031). Use kit MOD_001 Rev. 1 to correct problem found in V210.22000P or to convert models DGP***ACA to DGP***BCA. Use kit MOD_002 Rev. 1 to convert any DGP relay to DGP***BCA.

① Indicates PROM's superseded by later release.