

Master Drawing Set Modifications

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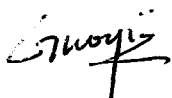
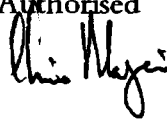
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1 Introduction

1.1 PURPOSE

This document describes the modifications to the IECC Master Drawing Set for IECC Upgrade 001. The modifications include:

- 1) replacement of the MVME123 board by MVME162 where appropriate
- 2) reversion to MVME123 board for the SDS
- 3) completion of the RDF drawings
- 4) correction of errors
- 5) EMC-related additions.

1.2 FORMAT

The drawing numbers refer to the IECC 5000-****- series, whilst the filenames are those held on electronic media.

The modifications do not detail typographical corrections. All drawings have changes to the title box layout from the previous issue(s). These are not reported if other changes have taken place.

Authorisation of this document denotes authorisation of the Master Drawing Set.

1.3 EVOLUTION

Issue 1, the initial issue, described the modifications implemented as part of IECC Upgrade 001. Most of the modifications were defined by system change D160.

Issue 2 changed the document title and document reference. There were no revisions to the content.

Issue 3 described modifications to the DIS (Flexible Display Subsystem) drawing set. The name of the subsystem was changed from Improved Display Subsystem to Flexible Display Subsystem.

Issue 4, this issue, describes modifications to DIS for new hardware components and associated amendments to FCS and RDW. Updates to TTP drawing set have been made to show the latest Motorola 3520 hardware platform. Again, associated changes to the FCS drawing set have been made.

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2 ARS (Automatic Routesetting Subsystem)

Drawing Number	Issue		Filename	Modification
	Current	Previous		
ARS-001 Sheet 1	E	B	ARS0011E.DGN	Various part numbers updated. EMC filters and J2 I/O bus added. Drawing deleted ****-ARS-131.
ARS-001 Sheet 2	E	B	ARS0012E.DGN	Title box changes.
ARS-001 Sheet 3	E	B	ARS0013E.DGN	Drawing deleted ****-ARS-131.
ARS-100 Sheet 1	E	B	ARS1001E.DGN	Items added 33,35,36.
ARS-100 Sheet 2	E	B	ARS1002E.DGN	Part numbers amended items 6,8,10,13. Items added 33,35,36.
ARS-101 Sheet 1	E	B	ARS1011E.DGN	EMC filters and J2 I/O buses added.
ARS-102 Sheet 1	E	B	ARS1021E.DGN	J2 I/O bus added.
ARS-103 Sheet 1	E	B	ARS1031E.DGN	Node names amended. Note 1 deleted.
ARS-104 Sheet 1	E	B	ARS1041E.DGN	EMC filters added. Earth and neutral busbars and terminal numbers amended. Cable sizes amended.
ARS-105 Sheet 1	E	B	ARS1051E.DGN	Power supply unit and VME backplane amended. J2 I/O bus added.
ARS-106 Sheet 1	E	B	ARS1061E.DGN	Cable labelling nomenclature amended.
ARS-107 Sheet 1	E	B	ARS1071E.DGN	Wallboxes and associated cables added. EMC filters added. Cable labelling nomenclature amended.
ARS-108 Sheet 1	E	B	ARS1081E.DGN	EMC filters added.
ARS-109 Sheet 1	E	B	ARS1091E.DGN	EMC filters added.
ARS-112 Sheet 1	E	B	ARS1121E.DGN	Cable labelling nomenclature amended.
ARS-113 Sheet 1	E	B	ARS1131E.DGN	Cable labelling nomenclature

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Drawing Number	Issue		Filename	Modification
	Current	Previous		
				amended.
ARS-131 Sheet 1		A		Drawing Deleted
ARS-300 Sheet 1	E	A	ARS3001E.DGN	Title box changes.
ARS-301 Sheet 1	E	A	ARS3011E.DGN	Title box changes.
ARS-302 Sheet 1	E	A	ARS3021E.DGN	Title box changes.
ARS-303 Sheet 1	E	A	ARS3031E.DGN	Title box changes.
ARS-311 Sheet 1	E	A	ARS3111E.DGN	Title box changes.
ARS-312 Sheet 1	E	A	ARS3121E.DGN	Title box changes.
ARS-313 Sheet 1	E	A	ARS3131E.DGN	Title box changes.
ARS-320 Sheet 1	E	A	ARS3201E.DGN	Title box changes.
ARS-360 Sheet 1	E	A	ARS3601E.DGN	Title box changes.
ARS-361 Sheet 1	E	A	ARS3611E.DGN	Power connector positions removed.
ARS-362 Sheet 1	E	A	ARS3621E.DGN	Title box changes.
ARS-368 Sheet 1	E	A	ARS3681E.DGN	J22 link 9-10 removed.
ARS-400 Sheet 1	E	A	ARS4001E.DGN	Cable labelling nomenclature amended.
ARS-401 Sheet 1	E	B	ARS4011E.DGN	Cable labelling nomenclature amended.
ARS-402 Sheet 1	E	B	ARS4021E.DGN	Reference to drawing ****-ARS-131 amended to ****-ARS-107. Cable labelling nomenclature amended.
ARS-410 Sheet 1	E	B	ARS4101E.DGN	Cable labelling nomenclature amended.
ARS-411 Sheet 1	E	B	ARS4111E.DGN	Cable labelling nomenclature amended.

3 DIS (Flexible Display Subsystem)

Drawing Number	Issue		Filename	Modification
	Current	Previous		
DIS-001 Sheet 1	G	F	DIS0011G.DGN	RRG template reformat. Various part numbers updated.
DIS-001 Sheet 2	G	F	DIS0012G.DGN	RRG template reformat. Drawings removed: ****-DIS-100 Sheets 3 & 4. ****-DIS-153. ****-DIS-154. ****-DIS-317 Sheet 2.
DIS-001 Sheet 3	G	F	DIS0013G.DGN	RRG template reformat. Removed Drawings: ****-DIS-100 Sheets 3 & 4 ****-DIS-153 ****-DIS-154 ****-DIS-317 Sheet 2 Updated Issue numbers
DIS-100 Sheet 1	F	A	DIS1001F.DGN	RRG template reformat. New DIS configuration option 1 (was DIS-100 sheet 2).
DIS-100 Sheet 2	E	A	DIS1002E.DGN	RRG template reformat. New DIS configuration option 2 (was DIS-100 sheet 4).
DIS-100 Sheet 3	G	F	DIS1003G.DGN	RRG template reformat. Drawing was DIS1005E.DGN.
DIS-101	G	F	DIS1011G.DGN	RRG template reformat.
DIS-102	G	F	DIS1021G.DGN	RRG template reformat.
DIS-103	G	F	DIS1031G.DGN	RRG template reformat.
DIS-104 Sheet 1	G	F	DIS1041G.DGN	RRG template reformat.
DIS-104 Sheet 2	G	F	DIS1042G.DGN	RRG template reformat.
DIS-104 Sheet 3	G	F	DIS1043G.DGN	RRG template reformat.
DIS-104 Sheet 4	G	F	DIS1044G.DGN	RRG template reformat.

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Drawing Number	Issue		Filename	Modification
	Current	Previous		
DIS-104 Sheet 5	G	F	DIS1045G.DGN	RRG template reformat.
DIS-105	G	F	DIS1051G.DGN	RRG template reformat.
DIS-106	G	F	DIS1061G.DGN	RRG template reformat.
DIS-107	G	F	DIS1071G.DGN	RRG template reformat. Network EMC Filters removed.
DIS-108	G	F	DIS1081G.DGN	RRG template reformat. Network EMC Filters removed.
DIS-117	G	F	DIS1171G.DGN	RRG template reformat. New PC layout (AMC614).
DIS-118	A	-	DIS1181A.DGN	Drawing was DIS-143. RRG template reformat.
DIS-119	G	F	DIS1191G.DGN	RRG template reformat. Removed backdesk video EMC filters.
DIS-120	G	F	DIS1201G.DGN	RRG template reformat.
DIS-142	G	F	DIS1421G.DGN	RRG template reformat.
DIS-144 Sheet 1	G	F	DIS1441G.DGN	RRG template reformat. PC layout amended for AMC614.
DIS-144 Sheet 2	E	A	DIS1442E.DGN	RRG template reformat. PC layout amended for AMC614.
DIS-145	G	F	DIS1451G.DGN	RRG template reformat. PC layout amended for AMC614.
DIS-146	G	F	DIS1461G.DGN	RRG template reformat.
DIS-147	G	F	DIS1471G.DGN	RRG template reformat.
DIS-148	G	F	DIS1481G.DGN	RRG template reformat.
DIS-211	G	F	DIS2111G.DGN	RRG template reformat. PC layout amended for AMC614.
DIS-212	G	F	DIS2121G.DGN	RRG template reformat. Video switch layout amended.
DIS-300	G	F	DIS3001G.DGN	RRG template reformat.
DIS-301	G	F	DIS3011G.DGN	RRG template reformat.
DIS-302	G	F	DIS3021G.DGN	RRG template reformat.
DIS-306	G	F	DIS3061G.DGN	RRG template reformat.
DIS-307 Sheet 1	G	F	DIS3071G.DGN	RRG template reformat.
DIS-307 Sheet 2	G	F	DIS3072G.DGN	RRG template reformat.
DIS-308	G	F	DIS3081G.DGN	RRG template reformat.

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Drawing Number	Issue		Filename	Modification
	Current	Previous		
				Removed 486 CPU configuration.
DIS-309	G	F	DIS3091G.DGN	RRG template reformat.
DIS-311	G	F	DIS3111G.DGN	RRG template reformat.
DIS-312	G	F	DIS3121G.DGN	RRG template reformat.
DIS-313	G	F	DIS3131G.DGN	RRG template reformat.
DIS-314	G	F	DIS3141G.DGN	RRG template reformat. Only Pentium CPU layout detailed.
DIS-315 Sheet 1	G	F	DIS3151G.DGN	RRG template reformat. Removed SW2.
DIS-315 Sheet 2	G	F	DIS3152G.DGN	RRG template reformat.
DIS-315 Sheet 3	E	A	DIS3153E.DGN	RRG template reformat. MVP-4X graphics card.
DIS-315 Sheet 4	E	A	DIS3154E.DGN	RRG template reformat. MVP-4X graphics card.
DIS-315 Sheet 5	A	-	DIS3155A.DGN	RRG template reformat. Added WARP4 graphics card.
DIS-315 Sheet 6	A	-	DIS3156A.DGN	RRG template reformat. Added WARP4 graphics card.
DIS-316	E	A	DIS3161E.DGN	RRG template reformat. Amended jumper layout to accommodate PC Fan Fail Monitor card.
DIS-317	E	A	DIS3171E.DGN	RRG template reformat. JP1 amended to two pins only. JP14 amended to no jumper connection.
DIS-318	E	A	DIS3181E.DGN	RRG template reformat.
DIS-319	A	-	DIS319A.DGN	RRG template format. Added system/fan monitor card.
DIS-360	G	F	DIS3601G.DGN	RRG template reformat.
DIS-361	G	F	DIS3611G.DGN	RRG template reformat.
DIS-368	G	F	DIS3681G.DGN	RRG template reformat.
DIS-371	G	F	DIS3711G.DGN	RRG template reformat.
DIS-400	G	F	DIS4001G.DGN	RRG template reformat.
DIS-402	G	F	DIS4021G.DGN	RRG template reformat.
DIS-408	G	F	DIS4081G.DGN	RRG template reformat.
DIS-409	G	F	DIS4091G.DGN	RRG template reformat.
DIS-425	G	F	DIS4251G.DGN	RRG template reformat.

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Drawing Number	Issue		Filename	Modification
	Current	Previous		
DIS-436	G	F	DIS4361G.DGN	RRG template reformat.
DIS-446	G	F	DIS4461G.DGN	RRG template reformat.
DIS-447	E	A	DIS4471E.DGN	RRG template reformat.
DIS-453	G	F	DIS4531G.DGN	RRG template reformat.
DIS-518	G	F	DIS5181G.DGN	RRG template reformat. Cable configuration amended.
DIS-531	G	F	DIS5311G.DGN	RRG template reformat. Cable labelling amended.
DIS-533	G	F	DIS5331G.DGN	RRG template reformat.
DIS-534	G	F	DIS5341G.DGN	RRG template reformat.
DIS-535	G	F	DIS5351G.DGN	RRG template reformat.
DIS-536 Sheet 1	G	F	DIS5361G.DGN	RRG template reformat.
DIS-536 Sheet 2	G	A	DIS5362G.DGN	RRG template reformat.
DIS-537	G	F	DIS5371G.DGN	RRG template reformat.
DIS-538	G	F	DIS5381G.DGN	RRG template reformat.
DIS-539	G	F	DIS5391G.DGN	RRG template reformat.
DIS-540	E	A	DIS5401E.DGN	RRG template reformat.
DIS-552	G	F	DIS5521G.DGN	RRG template reformat.
DIS-553	G	F	DIS5531G.DGN	RRG template reformat.
DIS-554	G	F	DIS5541G.DGN	RRG template reformat.

4 ECS (External Communications Subsystem)

Drawing Number	Issue		Filename	Modification
	Current	Previous		
ECS-001 Sheet 1	E	D	ECS0011E.DGN	Various part numbers updated. EMC filters and J2 I/O bus added. Drawings deleted ****-ECS-131, ****-ECS-418, ****-ECS-429. Drawings added ****-ECS-136, ****-ECS-148, ****-ECS-200, ****-ECS-465 sheets 1 & 2, ****-ECS-493, ****-ECS-557.
ECS-001 Sheet 2	E	D	ECS0012E.DGN	Drawings deleted ****-ECS-131, ****-ECS-418, ****-ECS-429. Drawings added ****-ECS-136, ****-ECS-148, ****-ECS-200, ****-ECS-493, ****-ECS-557.
ECS-100 Sheet 1	E	C	ECS1001E.DGN	Items added 36,37,38,39.
ECS-100 Sheet 2	E	C	ECS1002E.DGN	Part numbers amended items 7,9,13. Items added 36,37,38,39. Note 9 added.
ECS-101 Sheet 1	E	C	ECS1011E.DGN	EMC filters and J2 I/O buses added.
ECS-102 Sheet 1	E	C	ECS1021E.DGN	J2 I/O bus added.
ECS-103 Sheet 1	E	C	ECS1031E.DGN	Node names amended. Note 1 deleted.

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Drawing Number	Issue		Filename	Modification
	Current	Previous		
ECS-104 Sheet 1	E	C	ECS1041E.DGN	EMC filters added. Earth and neutral busbars and terminal numbers amended. Cable sizes amended.
ECS-105 Sheet 1	E	C	ECS1051E.DGN	Power supply unit and VME backplane amended. J2 I/O bus added.
ECS-106 Sheet 1	E	C	ECS1061E.DGN	Cable labelling nomenclature amended.
ECS-107 Sheet 1	E	C	ECS1071E.DGN	Wallboxes, wallbox cables and EMC filters added.
ECS-109 Sheet 1	E	C	ECS1091E.DGN	EMC filters added.
ECS-110 Sheet 1	E	C	ECS1101E.DGN	Cables to EMC filters (note 2) re-specified as ****-ECS-465
ECS-111 Sheet 1	E	B	ECS1111E.DGN	Cables re-specified as ****-ECS-493.
ECS-131 Sheet 1		A		Drawing Deleted.
ECS-136 Sheet 1	E	-	ECS1361E.DGN	New drawing.
ECS-148 Sheet 1	E	-	ECS1481E.DGN	New drawing.
ECS-200 Sheet 1	E	-	ECS2001E.DGN	New drawing.
ECS-300 Sheet 1	E	B	ECS3001E.DGN	Title box changes.
ECS-301 Sheet 1	E	B	ECS3011E.DGN	Title box changes.
ECS-311 Sheet 1	E	B	ECS3111E.DGN	Title box changes.
ECS-312 Sheet 1	E	B	ECS3121E.DGN	Title box changes.
ECS-330 Sheet 1	E	B	ECS3301E.DGN	Title box changes.
ECS-340 Sheet 1	E	B	ECS3401E.DGN	Labelling and positioning of headers amended.
ECS-360 Sheet 1	E	B	ECS3601E.DGN	Title box changes.
ECS-361 Sheet 1	E	B	ECS3611E.DGN	Power connector positions removed.
ECS-368 Sheet 1	E	A	ECS3681E.DGN	J22 link 9-10 removed.
ECS-371 Sheet 1	E	A	ECS3711E.DGN	Title box changes.
ECS-400 Sheet 1	E	B	ECS4001E.DGN	Cable labelling nomenclature amended.
ECS-401 Sheet 1	E	C	ECS4011E.DGN	Cable labelling nomenclature amended. Connector A re-angled.
ECS-402 Sheet 1	E	A	ECS4021E.DGN	Cable labelling nomenclature amended.

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Drawing Number	Issue		Filename	Modification
	Current	Previous		
				Reference to drawing ****-ECS-131 changed to ****-ECS-107.
ECS-412 Sheet 1	E	B	ECS4121E.DGN	Title box changes.
ECS-412 Sheet 2	E	B	ECS4122E.DGN	Cable labelling nomenclature amended.
ECS-418 Sheet 1		B		Drawing Deleted.
ECS-429 Sheet 1		C		Drawing Deleted.
ECS-430 Sheet 1	E	B	ECS4301E.DGN	Title box changes.
ECS-465 Sheet 1	E	-	ECS4651E.DGN	New drawing.
ECS-465 Sheet 2	E	-	ECS4652E.DGN	New drawing.
ECS-493 Sheet 1	E	-	ECS4931E.DGN	New drawing.
ECS-557 Sheet 1	E	-	ECS5571E.DGN	New drawing.

5 FBN (Fringe Box Node Cabinet Unit)

Drawing Number	Issue		Filename	Modification
	Current	Previous		
FBN-001 Sheet 1	E	A	FBN0011E.DGN	Various part numbers updated. EMC filters added. Drawings deleted ****-FBN-109 sheets 3 & 4, ****-FBN-428. Drawings added ****-FBN-131, ****-FBN-148, ****-FBN-426, ****-FBN-560.
FBN-001 Sheet 2	E	A	FBN0012E.DGN	Drawing deleted ****-FBN-428. Drawings added ****-FBN-131, ****-FBN-148, ****-FBN-426, ****-FBN-560.
FBN-100 Sheet 1	E	A	FBN1001E.DGN	Items added 17,18,19. Node racks replace node units.
FBN-100 Sheet 2	E	A	FBN1002E.DGN	Part numbers amended items 1,3,8. Items added 17,18,19. Note 6 added.
FBN-101 Sheet 1	E	A	FBN1011E.DGN	EMC filters added. Node racks replace node units. Number of Fringe boxes increased to 12.
FBN-103 Sheet 1	E	A	FBN1031E.DGN	Node racks replace node units.
FBN-104 Sheet 1	E	A	FBN1041E.DGN	Cabling to modems and node units deleted. Cabling shown to node racks. EMC filters added. Cable sizes amended.

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Drawing Number	Issue		Filename	Modification
	Current	Previous		
FBN-109 Sheet 1	E	A	FBN1091E.DGN	EMC filters added. Drawing shows wiring for 9-16 fringe boxes.
FBN-109 Sheet 2	E	A	FBN1092E.DGN	EMC filters added. Drawing shows wiring for 1-8 fringe boxes.
FBN-109 Sheet 3		A		Drawing Deleted.
FBN-109 Sheet 4		A		Drawing Deleted.
FBN-110 Sheet 1	E	A	FBN1101E.DGN	EMC filters added. Node racks replace node units.
FBN-111 Sheet 1	E	A	FBN1111E.DGN	Cables re-specified as ****-FBN-493.
FBN-131 Sheet 1	E	-	FBN1131E.DGN	New drawing.
FBN-148 Sheet 1	E	-	FBN1481E.DGN	New drawing.
FBN-402 Sheet 1	E	A	FBN4021E.DGN	Cable labelling nomenclature amended. Reference to drawing ****-FBN-122 changed to ****-FBN-131.
FBN-426 Sheet 1	E	-	FBN4261E.DGN	New drawing.
FBN-428 Sheet 1		A		Drawing Deleted.
FBN-560 Sheet 1	E	-	FBN5601E.DGN	New drawing.

6 FBS (Fringe Box Subsystem)

Drawing Number	Issue		Filename	Modification
	Current	Previous		
FBS-001 Sheet 1	E	A	FBS0011E.DGN	Various part numbers updated. Drawing deleted ****-FBS-363.
FBS-001 Sheet 2	E	A	FBS0012E.DGN	Drawing deleted ****-FBS-363.
FBS-100 Sheet 1	E	A	FBS1001E.DGN	Title box changes.
FBS-100 Sheet 2	E	A	FBS1002E.DGN	Note 3 amended.
FBS-101 Sheet 1	E	A	FBS1011E.DGN	Spare MCBs shown.
FBS-102 Sheet 1	E	A	FBS1021E.DGN	Title box changes.
FBS-104 Sheet 1	E	A	FBS1041E.DGN	Spare MCBs shown. Internal layout of distribution unit amended. Front view of wiring and layouts shown. Cable sizes amended.
FBS-105 Sheet 1	E	A	FBS1051E.DGN	Power supply unit and VME backplane amended.
FBS-106 Sheet 1	E	A	FBS1061E.DGN	Cable from NDS plug to SCP socket removed. Cable labelling nomenclature amended.
FBS-124 Sheet 1	E	A	FBS1241E.DGN	Cable labelling nomenclature amended.
FBS-128 Sheet 1	E	A	FBS1281E.DGN	Cable labelling nomenclature amended.
FBS-129 Sheet 1	E	A	FBS1291E.DGN	Cable labelling nomenclature amended.
FBS-300 Sheet 1	E	A	FBS3001E.DGN	Title box changes.
FBS-301 Sheet 1	E	A	FBS3011E.DGN	Title box changes.
FBS-303 Sheet 1	E	A	FBS3031E.DGN	Title box changes.
FBS-310 Sheet 1	E	A	FBS3101E.DGN	Title box changes.
FBS-311 Sheet 1	E	A	FBS3111E.DGN	Title box changes.
FBS-350 Sheet 1	E	A	FBS3501E.DGN	Title box changes.
FBS-360 Sheet 1	E	A	FBS3601E.DGN	Title box changes.
FBS-361 Sheet 1	E	A	FBS3611E.DGN	Power connector positions removed.
FBS-363 Sheet 1		A		Drawing Deleted.

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Drawing Number	Issue		Filename	Modification
	Current	Previous		
FBS-365 Sheet 1	E	A	FBS3651E.DGN	Title box changes.
FBS-366 Sheet 1	E	A	FBS3661E.DGN	Title box changes.
FBS-400 Sheet 1	E	A	FBS4001E.DGN	Cable labelling nomenclature amended.
FBS-403 Sheet 1	E	A	FBS4031E.DGN	Cable labelling nomenclature amended.
FBS-405 Sheet 1	E	A	FBS4051E.DGN	Cable labelling nomenclature amended.
FBS-406 Sheet 1	E	A	FBS4061E.DGN	Cable labelling nomenclature amended.
FBS-408 Sheet 1	E	A	FBS4081E.DGN	Cable labelling nomenclature amended.
FBS-427 Sheet 1	E	A	FBS4271E.DGN	Cable labelling nomenclature amended.
FBS-431 Sheet 1	E	A	FBS4311E.DGN	Cable labelling nomenclature amended.
FBS-434 Sheet 1	E	A	FBS4341E.DGN	Cable labelling nomenclature amended.

7 FCS (Full Configuration System)

Drawing Number	Issue		Filename	Modification
	Current	Previous		
FCS-001 Sheet 1	G	E	FCS0011G.DGN	RRG template reformat.
FCS-001 Sheet 2	G	E	FCS0012G.DGN	RRG template reformat.
FCS-002 Sheet 1	G	E	FCS0021G.DGN	RRG template reformat.
FCS-002 Sheet 2	G	E	FCS0022G.DGN	RRG template reformat.
FCS-100 Sheet 1	G	E	FCS1001G.DGN	RRG template reformat. TTP cubicle layout amended. Note 6 added.
FCS-100 Sheet 2	G	E	FCS1002G.DGN	RRG template reformat.
FCS-100 Sheet 3	G	E	FCS1003G.DGN	RRG template reformat.
FCS-100 Sheet 4	G	E	FCS1004G.DGN	RRG template reformat.
FCS-101 Sheet 1	G	E	FCS1011G.DGN	RRG template reformat. TTP diagram updated for 3520 model. Note 5 amended.
FCS-101 Sheet 2	G	E	FCS1012G.DGN	RRG template reformat.
FCS-101 Sheet 3	G	E	FCS1013G.DGN	RRG template reformat.