

ISTA/P

Final report

Session name: F02_CY62
Duration: 02:00:40
Measures plan implementation successful: No
Concluding work, notes: present (see below)
Change vehicle order: No

Header data

Date: 6/30/2010 Time: 1:48:20 PM ISTA/P version: 37.2.0.4
Model series: F02 Type/description: KB83 / F02 750Li US LHD Sedan N63B44 UL 8Z

Mileage: 21979 Vehicle ID number: WBAKB83519CY62

Integration level (plant): Integration level (old): Integration level (new):
F001-09-06-512 F001-09-06-512 F001-10-03-504

Time criterion: 0309 Paint code: 0475 Upholstery code: NASW

E words: A090

K words:

SA numbers: 212, 229, 248, 255, 2HL, 2VB, 2VH, 302, 316, 319, 322, 323, 3AG, 403, 415, 416, 423, 428, 430, 441, 451, 453, 454, 456, 460, 464, 466, 488, 494, 496, 4CB, 4NB, 4ND, 4U1, 4UM, 4UR, 508, 524, 5AC, 5AD, 5AG, 5DF, 5DK, 5DS, 609, 610, 615, 620, 639, 645, 653, 655, 677, 696, 697, 6AB, 6FG, 6FL, 6NF, 6UH, 6UK, 760, 823, 845, 850, 853, 876, 880, 8S4, 8SM, 8TD, 9AA

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Programmings (Ethernet)

Control module	Action	Result / fault code	Status	Type	SGBM ID
IHKA	Program bootloader	Successful	✓	Sys	btld_000003d4-004_003_011 btld_000003d4-004_007_000
EMALI	Program bootloader	Successful	✓	Sys	btld_000003dc-004_002_003 btld_000003dc-004_002_004
EMARE	Program bootloader	Successful	✓	Sys	btld_00000438-004_002_003 btld_00000438-004_002_004
FD2	Program bootloader	Successful	✓	Sys	btld_000003d2-004_005_070 btld_000003d2-004_005_075
KOMBI	Program bootloader	Successful	✓	Sys	btld_000003c0-004_004_012 btld_000003c0-004_009_016
CIC/CHAMP	Program bootloader	Successful	✓	Sys	btld_000003fc-001_016_005 btld_000003fc-004_006_011
VDM	Program bootloader	Successful	✓	Sys	btld_00000312-004_003_001 btld_00000312-004_006_000
CID	Program bootloader	Successful	✓	Sys	btld_000003d2-004_005_070 btld_000003d2-004_005_075
CAS	Program bootloader	Successful	✓	Sys	btld_0000074b-006_000_003 btld_0000074b-006_000_008
DSC	Program bootloader	Successful	✓	Sys	btld_000003ee-005_014_010 btld_000003ee-005_016_001
FKA	Program bootloader	Successful	✓	Sys	btld_000003e2-004_003_001 btld_000003e2-004_006_000
PDC	Program bootloader	Successful	✓	Sys	btld_000005f5-004_000_006 btld_000005f5-004_000_008
ICM	Program bootloader	Successful	✓	Sys	btld_00000396-001_007_000 btld_00000396-003_001_000
EHC	Program bootloader	Successful	✓	Sys	btld_000003fa-004_005_000 btld_000003fa-004_007_000
JBE	Program bootloader	Successful	✓	Sys	btld_000003a2-004_000_007 btld_000003a2-004_000_010
FD	Program bootloader	Successful	✓	Sys	btld_000003d2-004_005_070 btld_000003d2-004_005_075
ZGM	Program bootloader	Successful	✓	Sys	btld_00000452-001_002_006 btld_00000452-002_010_010
SWW	Program bootloader	Successful	✓	Sys	btld_00000309-003_004_001 btld_00000309-003_004_004
RDC	Program bootloader	Successful	✓	Sys	btld_00000376-001_007_001 btld_00000376-001_007_002
FRM	Program bootloader	Successful	✓	Sys	btld_000003b3-005_001_000 btld_000003b3-005_003_001
CON	Program bootloader	Successful	✓	Sys	btld_000005d1-004_003_005 btld_000005d1-004_004_000
HKL	Program bootloader	Successful	✓	Sys	btld_000003ca-007_000_003 btld_000003ca-007_000_005
RSE	Program bootloader	Successful	✓	Sys	btld_000005d2-001_033_001 btld_000005d2-002_004_001
KAFAS	Program bootloader	Successful	✓	Sys	btld_00000410-003_002_004 btld_00000410-003_003_002

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Programmings (Ethernet)

Control module	Action	Result / fault code	Status	Type	SGBM ID
SZL	Program bootloader	Successful	✓	Sys	btld_0000036e-005_006_000 btld_0000036e-005_007_000
NVE	Program bootloader	Successful	✓	Sys	btld_0000060a-004_001_011 btld_0000060a-004_001_015
VSW	Program bootloader	Successful	✓	Sys	btld_000003e5-000_000_008 btld_000003e5-000_000_010
IHKA	Program P	Successful	✓	Sys	swfl_000003d5-004_003_011 swfl_000003d5-004_007_001
HSR	Program P	Successful	✓	Sys	swfl_00000828-007_020_006 swfl_00000828-007_040_000 swfl_00000825-007_020_006 swfl_00000825-007_040_000 swfl_00000826-007_020_006 swfl_00000826-007_040_000 swfl_00000827-007_020_006 swfl_00000827-007_040_000
HUD	Program P	Successful	✓	Sys	swfl_00000705-147_069_001 swfl_00000705-152_069_000
EMALI	Program P	Successful	✓	Sys	swfl_000003dd-004_005_001 swfl_000003dd-004_005_002
GWS	Program P	Successful	✓	Sys	swfl_00000484-001_002_000 swfl_00000484-001_002_001
SMBF	Program P	Successful	✓	Sys	swfl_00000422-005_006_000 swfl_00000422-006_005_000
SMFA	Program P	Successful	✓	Sys	swfl_00000422-005_006_000 swfl_00000422-006_005_000
EMARE	Program P	Successful	✓	Sys	swfl_000003de-004_005_001 swfl_000003de-004_005_002
FD2	Program P	Successful	✓	Sys	swfl_000003d3-004_009_124 swfl_000003d3-004_009_140
KOMBI	Program P	Successful	✓	Sys	swfl_00000413-004_005_082 swfl_00000413-004_017_016 swfl_000003c4-004_003_060 swfl_000003c4-004_011_003 swfl_000003c2-004_006_066 swfl_000003c2-004_022_000 swfl_000003c1-004_006_064 swfl_000003c1-004_022_000 swfl_000003c3-004_005_060 swfl_000003c3-004_017_001
SMBFH	Program P	Successful	✓	Sys	swfl_00000422-005_006_000 swfl_00000422-006_005_000

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Programmings (Ethernet)

Control module	Action	Result / fault code	Status	Type	SGBM ID
TCU/ULF	Program P	Successful	✓	Sys	swfl_00000204-012_001_009 swfl_00000204-013_001_003
EDCSHR	Program P	Successful	✓	Sys	swfl_000004f2-050_004_001 swfl_000004f2-051_005_000 swfl_000004f6-050_004_001 swfl_000004f6-051_005_000
CON	Program P	Successful	✓	Sys	swfl_000003ce-003_004_000 swfl_000003ce-003_005_000
HKL	Program P	Successful	✓	Sys	swfl_000003cb-007_001_001 swfl_000003cb-007_003_000
RSE	Program P	Successful	✓	Sys	swfl_00000464-001_033_001 swfl_00000464-002_004_002 swfl_00000435-001_033_001 swfl_00000435-002_004_001 swfl_00000465-001_033_001 swfl_00000465-002_004_001 swfl_00000434-001_033_001 swfl_00000434-002_004_001 swfl_00000433-001_033_001 swfl_00000433-002_004_002 swfl_00000432-001_033_001 swfl_00000432-002_004_001 swfl_00000437-001_033_001 swfl_00000437-002_004_003 swfl_00000436-001_033_001 swfl_00000436-002_004_001
KAFAS	Program P	Successful	✓	Sys	swfl_00000411-003_002_016 swfl_00000411-003_003_008 swfl_00000412-003_002_151 swfl_00000412-003_003_007
DME/DDE	Program P	Successful	✓	Sys	swfl_00000750-099_014_005 swfl_00000750-099_014_006
SZL	Program P	Successful	✓	Sys	swfl_00000370-001_005_004 swfl_00000370-001_006_000 swfl_0000036f-005_010_000 swfl_0000036f-005_014_000
ACSM	Program P	Successful	✓	Sys	swfl_000003d9-005_001_027 swfl_000003d9-005_003_001
EKPS	Program P	Successful	✓	Sys	swfl_000003d8-000_080_106 swfl_000003d8-000_080_113
EMF	Program P	Successful	✓	Sys	swfl_000003c9-000_014_000 swfl_000003c9-000_017_000
NVE	Program P	Successful	✓	Sys	swfl_00000445-003_003_002 swfl_00000445-003_003_003 swfl_000003b9-003_003_003 swfl_000003b9-003_005_019 swfl_000003ba-004_004_006 swfl_000003ba-004_006_012
VSW	Program P	Successful	✓	Sys	swfl_000003e6-000_000_016 swfl_000003e6-000_000_022
ULF_SBX	Program P	Successful	✓	Sys	swfl_000001f5-006_019_007 swfl_000001f5-008_017_000 swfl_000001f4-006_019_007 swfl_000001f4-008_017_000

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Encodings (Ethernet)

Control module	Action	Result / fault code	Status	Type	SGBM ID
IHKA	Code C	Successful	✓	Sys	cafd_00000092-003_009_005 cafd_00000092-003_010_100
HSR	Code C	Successful	✓	Sys	cafd_00000028-004_055_004 cafd_00000028-004_055_006
HUD	Code C	Successful	✓	Sys	cafd_000000c9-001_005_000 cafd_000000c9-001_006_000
EMALI	Code C	Successful	✓	Sys	cafd_000000a6-003_003_001 cafd_000000a6-003_003_004 cafd_000000ec-004_004_007
GWS	Code C	Successful	✓	Sys	cafd_000000d0-003_004_000
SMBF	Code C	Successful	✓	Sys	cafd_000000b6-005_005_001 cafd_000000b6-006_005_002
SMFA	Code C	Successful	✓	Sys	cafd_000000b5-005_005_001 cafd_000000b5-006_005_003
EMARIE	Code C	Successful	✓	Sys	cafd_000000ed-004_004_007 cafd_000000de-003_003_001 cafd_000000de-003_003_004
FD2	Code C	Successful	✓	Sys	cafd_00000219-004_005_042 cafd_00000219-004_005_045
KOMBI	Code C	Successful	✓	Sys	cafd_00000069-006_002_012 cafd_00000069-007_001_045
SMBFH	Code C	Successful	✓	Sys	cafd_000000b8-005_005_000 cafd_000000b8-006_005_000
CIC/CHAMP	Code C	Successful	✓	Sys	cafd_000000f9-005_003_015 cafd_000000f9-005_013_008
VDM	Code C	Successful	✓	Sys	cafd_00000044-006_005_000 cafd_00000044-006_006_001
CID	Code C	Successful	✓	Sys	cafd_0000008a-004_005_042 cafd_0000008a-004_005_046
CAS	Code C	Successful	✓	Sys	cafd_0000000f-005_005_005 cafd_0000000f-005_017_002
EDCSHL	Code C	Successful	✓	Sys	cafd_00000bf3-051_006_000 cafd_0000026c-050_001_000 cafd_0000026c-051_000_000
SMFAH	Code C	Successful	✓	Sys	cafd_000000b7-005_005_000 cafd_000000b7-006_005_000
AMPT/AMPH	Code C	Successful	✓	Sys	cafd_000001fd-002_002_000
DSC	Code C	Successful	✓	Sys	cafd_000000d8-004_014_012 cafd_000000d8-004_175_022
FKA	Code C	Successful	✓	Sys	cafd_000000dd-003_005_001 cafd_000000dd-003_006_001
EDCSVR	Code C	Successful	✓	Sys	cafd_0000026c-050_001_000 cafd_0000026c-051_000_000 cafd_00000c1e-051_006_000
PDC	Code C	Successful	✓	Sys	cafd_00000018-004_002_004 cafd_00000018-004_004_000
ICM	Code C	Successful	✓	Sys	cafd_00000053-006_003_003
EHC	Code C	Successful	✓	Sys	cafd_000000f5-004_005_001 cafd_000000f5-004_008_003

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Encodings (Ethernet)

Control module	Action	Result / fault code	Status	Type	SGBM ID
TR SVC	Code C	Successful	✓	Sys	cafd_00000223-008_011_000 cafd_00000223-012_002_003
EDCSVL	Code C	Successful	✓	Sys	cafd_0000026c-050_001_000 cafd_0000026c-051_000_000 cafd_00000c1e-051_006_000
EGS	Code C	Successful	✓	Sys	cafd_0000012b-032_032_000 cafd_0000012b-032_032_003
JBE	Code C	Successful	✓	Sys	cafd_00000014-004_013_004 cafd_00000014-004_027_006
FD	Code C	Successful	✓	Sys	cafd_00000219-004_005_042 cafd_00000219-004_005_045
AL	Code C	Successful	✓	Sys	cafd_00000021-004_055_002
SWW	Code C	Successful	✓	Sys	cafd_00000160-003_003_007 cafd_00000160-003_004_001
FRM	Code C	Successful	✓	Sys	cafd_0000012f-005_001_036 cafd_0000012f-005_005_045
TCU/ULF	Code C	Successful	✓	Sys	cafd_00000205-022_000_005 cafd_00000205-022_003_000
EDCSHR	Code C	Successful	✓	Sys	cafd_00000bf3-051_006_000 cafd_0000026c-050_001_000 cafd_0000026c-051_000_000
CON	Code C	Successful	✓	Sys	cafd_0000007e-002_003_002 cafd_0000007e-002_003_004
HKL	Code C	Successful	✓	Sys	cafd_00000076-006_000_004 cafd_00000076-007_002_002
RSE	Code C	Successful	✓	Sys	cafd_00000168-001_032_005 cafd_00000168-002_001_002
KAFAS	Code C	Successful	✓	Sys	cafd_00000122-003_002_023 cafd_00000122-003_003_003
DME/DDE	Code C	Successful	✓	Sys	cafd_00000721-000_000_014
SZL	Code C	Successful	✓	Sys	cafd_0000033d-001_003_000 cafd_0000033d-001_005_001
ACSM	Code C	Successful	✓	Sys	cafd_0000009c-004_005_006 cafd_0000009c-004_009_006 cafd_0000009d-005_000_002 cafd_0000009d-006_003_004 cafd_00000147-005_000_002 cafd_00000147-006_001_003
EKPS	Code C	Successful	✓	Sys	cafd_00000098-000_008_022 cafd_00000098-000_008_045
NVE	Code C	Successful	✓	Sys	cafd_0000004c-004_004_007 cafd_0000004c-004_006_009
ULF_SBX	Code C	Successful	✓	Sys	cafd_000001f6-019_005_002 cafd_000001f6-019_006_005

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Activation codes

Control module	Action	Result	Status	Type	Software ID	File name
CIC/CHAMP	Import activation code	The appropriate enabling code could not be obtained via SWT Online and was not imported manually.		Sys	006F0001	
CIC/CHAMP	Activate A	Execution status: Executable; The appropriate enabling code could not be obtained via SWT Online and was not imported manually.		Sys	006F0001	

Data recovery

Control module	Action	Result	Status	Type
CIC/CHAMP	Save individual data	Successful		Sys
CIC/CHAMP	Restore individual data	Failed		Sys

Additional actions

Control module	Action	Result / fault code	Status
CIC/CHAMP	Save integrated Owner's Manual	Successful	
-	Update integration level	Successful	
-	Vehicle order alignment	Successful	

Concluding work, notes

Number	Activity / note
1.	CIC/CHAMP (Import activation code)
2.	CIC/CHAMP (Activate A)
3.	After completion of programming/encoding, initialise the motor position sensor via the service functions in the ISTA workshop system.
4.	After completion of programming/encoding, carry out 'Teaching pressure sensors' of the Dynamic Drive via the service functions in the ISTA workshop system.
5.	After completing programming/coding in the vehicle, initialize the RPA data.
6.	After completion of programming/encoding, perform the ride-height calibration via the service functions in the ISTA workshop system.
7.	After completion of programming/encoding, initialise the rear power windows via the service functions in the ISTA workshop system.
8.	After completion of programming/encoding, read out the fault memory from Lane Change Warning. If a calibration is necessary based on the fault entry, start up the sensor system for Lane Change Warning via the service functions in the ISTA workshop system.
9.	After completing programming/coding in the vehicle, initialize the RDC data.

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Concluding work, notes

Number	Activity / note
10.	After completion of programming/encoding, normalise the electric steering column adjustment and initialise the front power windows via the service functions in the ISTA workshop system.
11.	After completion of programming/encoding, perform TCU subsequent evaluation via the service functions in the ISTA workshop system.

Backup pages

Control module	Status before the measures plan	Status after the measures plan
IHKA	hwel_0000008f-002_004_000 btld_000003d4-004_003_011 swfl_000003d5-004_003_011 cafd_00000092-003_009_005 hwap_000006d9-255_255_255	hwel_0000008f-002_004_000 swfl_000003d5-004_003_011 cafd_00000092-003_009_005 hwap_000006d9-255_255_255 btld_000003d4-004_007_000 (new) btld_000003d4-004_003_011 swfl_000003d5-004_007_001 (new) cafd_00000092-003_010_100 (new)
HSR	hwel_00000022-001_196_001 btld_00000823-007_010_003 flsl_00000824-007_010_003 swfl_00000825-007_020_006 swfl_00000826-007_020_006 swfl_00000827-007_020_006 swfl_00000828-007_020_006 cafd_00000028-004_055_004	hwel_00000022-001_196_001 btld_00000823-007_010_003 flsl_00000824-007_010_003 swfl_00000825-007_020_006 swfl_00000826-007_020_006 swfl_00000827-007_020_006 swfl_00000828-007_020_006 cafd_00000028-004_055_004 blup_00000903-007_030_002 (new) flup_00000905-007_030_002 (new) swfl_00000828-007_040_000 (new) swfl_00000825-007_040_000 (new) swfl_00000826-007_040_000 (new) swfl_00000827-007_040_000 (new) cafd_00000028-004_055_006 (new)
EMALI	hwel_000000a2-003_002_000 btld_000003dc-004_002_003 swfl_000003dd-004_005_001 cafd_000000a6-003_003_001 cafd_000000ec-004_004_007	hwel_000000a2-003_002_000 swfl_000003dd-004_005_001 cafd_000000a6-003_003_001 cafd_000000ec-004_004_007 btld_000003dc-004_002_004 (new) btld_000003dc-004_002_003 swfl_000003dd-004_005_002 (new) cafd_000000a6-003_003_004 (new)
EMARE	hwel_000000a2-003_002_000 btld_00000438-004_002_003 swfl_000003de-004_005_001 cafd_000000de-003_003_001 cafd_000000ed-004_004_007	hwel_000000a2-003_002_000 swfl_000003de-004_005_001 cafd_000000de-003_003_001 cafd_000000ed-004_004_007 btld_00000438-004_002_004 (new) btld_00000438-004_002_003 swfl_000003de-004_005_002 (new) cafd_000000de-003_003_004 (new)

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Backup pages

Control module	Status before the measures plan	Status after the measures plan
FD2	hwel_00000215-003_007_020 hwel_00000217-003_006_011 hwfr_00000228-255_255_255 hwap_0000026a-255_255_255 btld_000003d2-004_005_070 swfl_000003d3-004_009_124 cafd_00000219-004_005_042	hwel_00000215-003_007_020 hwel_00000217-003_006_011 hwfr_00000228-255_255_255 hwap_0000026a-255_255_255 swfl_000003d3-004_009_124 cafd_00000219-004_005_042 btld_000003d2-004_005_075 (new) btld_000003d2-004_005_070 swfl_000003d3-004_009_140 (new) cafd_00000219-004_005_045 (new)
KOMBI	hwel_0000005d-004_003_001 hwap_0000013d-255_255_255 hwap_00000142-255_255_255 btld_000003c0-004_004_012 swfl_000003c1-004_006_064 swfl_00000413-004_005_082 flsl_00000393-004_005_063 swfl_000003c3-004_005_060 swfl_000003c2-004_006_066 swfl_000003c4-004_003_060 cafd_00000069-006_002_012	hwel_0000005d-004_003_001 hwap_0000013d-255_255_255 hwap_00000142-255_255_255 swfl_000003c1-004_006_064 swfl_00000413-004_005_082 swfl_000003c3-004_005_060 swfl_000003c2-004_006_066 swfl_000003c4-004_003_060 cafd_00000069-006_002_012 btld_000003c0-004_009_016 (new) flsl_00000393-004_009_055 (new) btld_000003c0-004_004_012 flsl_00000393-004_005_063 swfl_00000413-004_017_016 (new) swfl_000003c4-004_011_003 (new) swfl_000003c2-004_022_000 (new) swfl_000003c1-004_022_000 (new) swfl_000003c3-004_017_001 (new) cafd_00000069-007_001_045 (new)

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Backup pages

Control module	Status before the measures plan	Status after the measures plan
CIC/CHAMP	hwel_0000024c-001_021_021 hwel_00000334-001_075_035 btld_000003fc-001_016_005 swfl_00000416-001_016_005 swfl_000003a6-001_016_005 swfl_00000417-001_016_005 swfl_00000415-001_016_005 swfl_0000042b-001_016_005 entd_000002e8-001_009_001 navd_000004d3-255_000_127 swfl_0000045e-001_016_005 swfl_00000460-001_016_005 swfl_00000462-001_016_005 swfl_0000053e-001_016_005 ibad_00000443-001_012_019 ibad_00000440-001_012_019 swfl_0000045d-001_012_018 cafd_000000f9-005_003_015	hwel_0000024c-001_021_021 hwel_00000334-001_075_035 swfl_00000416-001_016_005 swfl_000003a6-001_016_005 swfl_00000417-001_016_005 swfl_00000415-001_016_005 swfl_0000042b-001_016_005 entd_000002e8-001_009_001 navd_000004d3-255_000_127 swfl_0000045e-001_016_005 swfl_00000460-001_016_005 swfl_00000462-001_016_005 swfl_0000053e-001_016_005 ibad_00000443-001_012_019 ibad_00000440-001_012_019 swfl_0000045d-001_012_018 cafd_000000f9-005_003_015 btld_000003fc-004_006_011 (new) btld_000003fc-001_016_005 swfl_0000053e-004_006_011 (new) swfl_00000415-004_006_011 (new) swfl_000003a6-004_006_011 (new) swfl_00000460-004_006_011 (new) swfl_00000417-004_006_011 (new) swfl_0000042b-004_006_011 (new) swfl_0000045e-004_006_011 (new) swfl_0000045d-004_006_011 (new) swfl_00000416-004_006_011 (new) ibad_00000443-004_006_011 (new) ibad_00000440-004_006_011 (new) cafd_000000f9-005_013_008 (new)
VDM	hwel_0000003f-004_001_000 btld_00000312-004_003_001 swfl_000003b6-009_001_001 swfl_000003b7-009_001_001 swfl_000003b5-009_001_001 cafd_00000044-006_005_000	hwel_0000003f-004_001_000 swfl_000003b6-009_001_001 swfl_000003b7-009_001_001 swfl_000003b5-009_001_001 cafd_00000044-006_005_000 btld_00000312-004_006_000 (new) btld_00000312-004_003_001 swfl_000003b5-012_003_000 (new) swfl_000003b7-012_003_000 (new) swfl_000003b6-012_003_000 (new) cafd_00000044-006_006_001 (new)
CID	hwel_0000008b-003_007_020 hwel_0000008d-003_006_011 hwfr_00000228-255_255_255 hwap_0000021a-255_255_255 btld_000003d2-004_005_070 swfl_000003d3-004_009_124 cafd_0000008a-004_005_042	hwel_0000008b-003_007_020 hwel_0000008d-003_006_011 hwfr_00000228-255_255_255 hwap_0000021a-255_255_255 swfl_000003d3-004_009_124 cafd_0000008a-004_005_042 btld_000003d2-004_005_075 (new) btld_000003d2-004_005_070 swfl_000003d3-004_009_140 (new) cafd_0000008a-004_005_046 (new)

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Control module	Status before the measures plan	Status after the measures plan
CAS	hwel_00000007-005_000_001 hwap_000002eb-255_255_255 btld_0000074b-006_000_003 swfl_0000074f-006_001_035 swfl_0000074d-006_001_035 swfl_0000074e-006_001_035 swfl_0000074c-006_001_035 cafd_0000000f-005_005_005	hwel_00000007-005_000_001 hwap_000002eb-255_255_255 swfl_0000074f-006_001_035 swfl_0000074d-006_001_035 swfl_0000074e-006_001_035 swfl_0000074c-006_001_035 cafd_0000000f-005_005_005 btld_0000074b-006_000_008 (new) btld_0000074b-006_000_003 swfl_0000074d-006_004_011 (new) swfl_0000074e-006_004_011 (new) swfl_0000074f-006_004_011 (new) swfl_0000074c-006_004_011 (new) cafd_0000000f-005_017_002 (new)
EDCSHL	hwel_000002f8-040_015_000 btld_000002fd-050_000_001 swfl_000004f1-050_004_001 swfl_000004f5-050_004_001 cafd_0000026c-050_001_000	hwel_000002f8-040_015_000 btld_000002fd-050_000_001 swfl_000004f1-050_004_001 swfl_000004f5-050_004_001 cafd_0000026c-050_001_000 blup_00000b12-051_001_000 (new) swfl_000004f1-051_005_000 (new) swfl_000004f5-051_005_000 (new) cafd_00000b13-051_006_000 (new) cafd_0000026c-051_000_000 (new)
DSC	hwel_000000d5-004_011_000 btld_000003ee-005_014_010 flsl_000004c3-005_014_010 swfl_000003f0-005_014_014 swfl_0000046b-005_014_014 swfl_000003f2-005_014_014 cafd_000000d8-004_014_012	hwel_000000d5-004_011_000 swfl_000003f0-005_014_014 swfl_0000046b-005_014_014 swfl_000003f2-005_014_014 cafd_000000d8-004_014_012 btld_000003ee-005_016_001 (new) flsl_000004c3-005_016_001 (new) btld_000003ee-005_014_010 flsl_000004c3-005_014_010 swfl_0000046b-005_172_001 (new) swfl_000003f0-005_172_001 (new) swfl_000003f2-005_172_001 (new) cafd_000000d8-004_175_022 (new)
FKA	hwel_000000af-002_002_000 btld_000003e2-004_003_001 swfl_000003e3-004_003_002 cafd_000000dd-003_005_001 hwap_000006cb-255_255_255	hwel_000000af-002_002_000 swfl_000003e3-004_003_002 cafd_000000dd-003_005_001 hwap_000006cb-255_255_255 btld_000003e2-004_006_000 (new) btld_000003e2-004_003_001 swfl_000003e3-004_006_000 (new) cafd_000000dd-003_006_001 (new)
EDCSVR	hwel_000002f8-040_015_000 btld_00000300-050_000_001 swfl_000004f4-050_004_001 swfl_000004f8-050_004_001 cafd_0000026c-050_001_000	hwel_000002f8-040_015_000 btld_00000300-050_000_001 swfl_000004f4-050_004_001 swfl_000004f8-050_004_001 cafd_0000026c-050_001_000 blup_00000b18-051_001_000 (new) swfl_000004f8-051_005_000 (new) swfl_000004f4-051_005_000 (new) cafd_0000026c-051_000_000 (new) cafd_00000c1e-051_006_000 (new)

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Control module	Status before the measures plan	Status after the measures plan
PDC	hwel_00000011-004_000_001 btld_000005f5-004_000_006 swfl_000003a5-004_002_002 cafd_00000018-004_002_004	hwel_00000011-004_000_001 swfl_000003a5-004_002_002 cafd_00000018-004_002_004 btld_000005f5-004_000_008 (new) btld_000005f5-004_000_006 swfl_000003a5-004_004_000 (new) cafd_00000018-004_004_000 (new)
ICM	hwel_00000002-003_004_000 btld_00000396-001_007_000 swfl_00000398-001_009_001 swfl_00000397-001_009_000 swfl_000003bb-001_009_000 cafd_00000052-006_001_003 fisl_00000536-001_007_000 swfl_00000399-001_009_001 swfl_000003bc-001_009_000 swfl_000003bd-001_009_000	hwel_00000002-003_004_000 swfl_00000398-001_009_001 swfl_00000397-001_009_000 swfl_000003bb-001_009_000 cafd_00000052-006_001_003 swfl_00000399-001_009_001 swfl_000003bc-001_009_000 swfl_000003bd-001_009_000 btld_00000396-003_001_000 (new) fisl_00000536-003_001_000 (new) btld_00000396-001_007_000 fisl_00000536-001_007_000 swfl_00000399-002_005_000 (new) swfl_00000397-002_005_000 (new) swfl_000003bd-002_003_001 (new) swfl_000003bc-002_005_000 (new) swfl_000003bb-002_005_000 (new) swfl_00000398-002_005_000 (new) cafd_00000053-006_003_003 (new)
EHC	hwel_000000f2-004_001_001 btld_000003fa-004_005_000 swfl_000003fb-004_005_001 cafd_000000f5-004_005_001	hwel_000000f2-004_001_001 swfl_000003fb-004_005_001 cafd_000000f5-004_005_001 btld_000003fa-004_007_000 (new) btld_000003fa-004_005_000 swfl_000003fb-004_011_004 (new) cafd_000000f5-004_008_003 (new)
TR SVC	hwel_0000021f-009_000_000 btld_00000467-008_011_000 swfl_00000468-008_011_000 cafd_00000223-008_011_000	hwel_0000021f-009_000_000 btld_00000467-008_011_000 swfl_00000468-008_011_000 cafd_00000223-008_011_000 blup_00000ce6-012_002_000 (new) swfl_00000468-012_002_000 (new) cafd_00000223-012_002_003 (new)
EDCSVL	hwel_000002f8-040_015_000 btld_000002ff-050_000_001 swfl_000004f3-050_004_001 swfl_000004f7-050_004_001 cafd_0000026c-050_001_000	hwel_000002f8-040_015_000 btld_000002ff-050_000_001 swfl_000004f3-050_004_001 swfl_000004f7-050_004_001 cafd_0000026c-050_001_000 blup_00000b16-051_001_000 (new) swfl_000004f3-051_005_000 (new) swfl_000004f7-051_005_000 (new) cafd_0000026c-051_000_000 (new) cafd_00000c1e-051_006_000 (new)

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Control module	Status before the measures plan	Status after the measures plan
JBE	hwel_00000011-004_000_001 hwap_0000029d-255_255_255 btld_000003a2-004_000_007 swfl_000004b1-004_012_001 cafd_00000014-004_013_004	hwel_00000011-004_000_001 hwap_0000029d-255_255_255 swfl_000004b1-004_012_001 cafd_00000014-004_013_004 btld_000003a2-004_000_010 (new) btld_000003a2-004_000_007 swfl_000004b1-004_027_001 (new) cafd_00000014-004_027_006 (new)
FD	hwel_00000215-003_007_020 hwel_00000217-003_006_011 hwfr_00000228-255_255_255 hwap_0000026a-255_255_255 btld_000003d2-004_005_070 swfl_000003d3-004_009_124 cafd_00000219-004_005_042	hwel_00000215-003_007_020 hwel_00000217-003_006_011 hwfr_00000228-255_255_255 hwap_0000026a-255_255_255 swfl_000003d3-004_009_124 cafd_00000219-004_005_042 btld_000003d2-004_005_075 (new) btld_000003d2-004_005_070 swfl_000003d3-004_009_140 (new) cafd_00000219-004_005_045 (new)
AL	hwel_0000001b-001_196_001 btld_0000081d-007_010_001 flsl_0000081e-007_010_001 swfl_0000081f-007_010_000 swfl_00000820-007_010_000 swfl_00000821-007_010_000 swfl_00000822-007_010_000 cafd_00000021-004_055_002	hwel_0000001b-001_196_001 btld_0000081d-007_010_001 flsl_0000081e-007_010_001 swfl_0000081f-007_010_000 swfl_00000820-007_010_000 swfl_00000821-007_010_000 swfl_00000822-007_010_000 cafd_00000021-004_055_002 blup_000008ff-007_030_001 (new) flup_00000901-007_030_001 (new) swfl_00000822-007_030_001 (new) swfl_00000820-007_030_001 (new) swfl_0000081f-007_030_001 (new) swfl_00000821-007_030_001 (new)
ZGM	btld_00000452-001_002_006 swfl_00000453-001_002_007 swfl_00000454-001_002_003 hwel_000001b4-000_195_002	swfl_00000453-002_010_020 (new) swfl_00000454-002_004_005 (new) btld_00000452-002_010_010 (new) hwel_000001b4-000_195_002
SWW	hwel_0000015c-002_002_000 btld_00000309-003_004_001 swfl_0000042d-003_006_002 cafd_00000160-003_003_007	hwel_0000015c-002_002_000 swfl_0000042d-003_006_002 cafd_00000160-003_003_007 btld_00000309-003_004_004 (new) btld_00000309-003_004_001 swfl_0000042d-003_009_001 (new) cafd_00000160-003_004_001 (new)
RDC	hwel_0000017f-000_004_000 btld_00000376-001_007_001 swfl_00000377-000_018_000	hwel_0000017f-000_004_000 swfl_00000377-000_018_000 btld_00000376-001_007_002 (new) btld_00000376-001_007_001 swfl_00000377-000_019_000 (new)

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Control module	Status before the measures plan	Status after the measures plan
FRM	hwel_00000039-004_000_001 btld_000003b3-005_001_000 swfl_000003b4-005_001_032 swfl_0000041e-005_001_032 swfl_0000041f-005_001_032 swfl_00000420-005_001_001 cafd_0000012f-005_001_036	hwel_00000039-004_000_001 swfl_000003b4-005_001_032 swfl_0000041e-005_001_032 swfl_0000041f-005_001_032 swfl_00000420-005_001_001 cafd_0000012f-005_001_036 btld_000003b3-005_003_001 (new) btld_000003b3-005_001_000 swfl_000003b4-005_003_053 (new) swfl_0000041f-005_003_053 (new) swfl_0000041e-005_003_053 (new) swfl_00000420-005_003_039 (new) cafd_0000012f-005_005_045 (new)
EDCSHR	hwel_000002f8-040_015_000 btld_000002fe-050_000_001 swfl_000004f2-050_004_001 swfl_000004f6-050_004_001 cafd_0000026c-050_001_000	hwel_000002f8-040_015_000 btld_000002fe-050_000_001 swfl_000004f2-050_004_001 swfl_000004f6-050_004_001 cafd_0000026c-050_001_000 blup_00000b14-051_001_000 (new) swfl_000004f2-051_005_000 (new) swfl_000004f6-051_005_000 (new) cafd_00000bf3-051_006_000 (new) cafd_0000026c-051_000_000 (new)
CON	hwel_00000078-004_001_001 btld_000005d1-004_003_005 swfl_000003ce-003_004_000 cafd_0000007e-002_003_002 hwap_00000391-255_255_255	hwel_00000078-004_001_001 swfl_000003ce-003_004_000 cafd_0000007e-002_003_002 hwap_00000391-255_255_255 btld_000005d1-004_004_000 (new) btld_000005d1-004_003_005 swfl_000003ce-003_005_000 (new) cafd_0000007e-002_003_004 (new)
HKL	hwel_00000073-004_000_000 btld_000003ca-007_000_003 swfl_000003cb-007_001_001 cafd_00000076-006_000_004	hwel_00000073-004_000_000 swfl_000003cb-007_001_001 cafd_00000076-006_000_004 btld_000003ca-007_000_005 (new) btld_000003ca-007_000_003 swfl_000003cb-007_003_000 (new) cafd_00000076-007_002_002 (new)

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Control module	Status before the measures plan	Status after the measures plan
RSE	hwel_0000061e-001_006_002 cafd_00000168-001_032_005 btld_000005d2-001_033_001 swfl_00000434-001_033_001 swfl_00000435-001_033_001 swfl_00000465-001_033_001 swfl_00000464-001_033_001 swfl_00000432-001_033_001 swfl_00000433-001_033_001 swfl_00000437-001_033_001 swfl_00000436-001_033_001 swfl_00000436-001_033_001	hwel_0000061e-001_006_002 cafd_00000168-001_032_005 swfl_00000434-001_033_001 swfl_00000435-001_033_001 swfl_00000465-001_033_001 swfl_00000464-001_033_001 swfl_00000432-001_033_001 swfl_00000433-001_033_001 swfl_00000437-001_033_001 swfl_00000436-001_033_001 btld_000005d2-002_004_001 (new) btld_000005d2-001_033_001 swfl_00000464-002_004_002 (new) swfl_00000435-002_004_001 (new) swfl_00000465-002_004_001 (new) swfl_00000434-002_004_001 (new) swfl_00000433-002_004_002 (new) swfl_00000432-002_004_001 (new) swfl_00000437-002_004_003 (new) swfl_00000436-002_004_001 (new) cafd_00000168-002_001_002 (new)
KAFAS	hwel_0000011c-002_001_005 btld_00000410-003_002_004 swfl_00000411-003_002_016 flsl_00000537-003_002_002 swfl_00000412-003_002_151 cafd_00000122-003_002_023	hwel_0000011c-002_001_005 swfl_00000411-003_002_016 swfl_00000412-003_002_151 cafd_00000122-003_002_023 btld_00000410-003_003_002 (new) flsl_00000537-003_003_001 (new) btld_00000410-003_002_004 flsl_00000537-003_002_002 swfl_00000411-003_003_008 (new) swfl_00000412-003_003_007 (new) cafd_00000122-003_003_003 (new)
SZL	hwel_00000327-004_000_000 hwap_0000033f-255_255_255 hwap_00000341-255_255_255 hwap_00000343-255_255_255 btld_0000036e-005_006_000 swfl_0000036f-005_010_000 swfl_00000370-001_005_004 cafd_0000033d-001_003_000	hwel_00000327-004_000_000 hwap_0000033f-255_255_255 hwap_00000341-255_255_255 hwap_00000343-255_255_255 swfl_0000036f-005_010_000 swfl_00000370-001_005_004 cafd_0000033d-001_003_000 btld_0000036e-005_007_000 (new) btld_0000036e-005_006_000 swfl_00000370-001_006_000 (new) swfl_0000036f-005_014_000 (new) cafd_0000033d-001_005_001 (new)
NVE	hwel_00000048-004_000_001 btld_0000060a-004_001_011 swfl_000003ba-004_004_006 swfl_000003b9-003_003_003 swfl_00000445-003_003_002 cafd_0000004c-004_004_007	hwel_00000048-004_000_001 swfl_000003ba-004_004_006 swfl_000003b9-003_003_003 swfl_00000445-003_003_002 cafd_0000004c-004_004_007 btld_0000060a-004_001_015 (new) btld_0000060a-004_001_011 swfl_00000445-003_003_003 (new) swfl_000003b9-003_005_019 (new) swfl_000003ba-004_006_012 (new) cafd_0000004c-004_006_009 (new)
VSW	hwel_000000b9-005_002_000 btld_000003e5-000_000_008 swfl_000003e6-000_000_016	hwel_000000b9-005_002_000 btld_000003e5-000_000_010 (new) swfl_000003e6-000_000_022 (new)

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Control module	Status before the measures plan	Status after the measures plan
HUD	hwel_000000c4-003_001_003 hwap_000000c5-255_255_255 btld_00000704-001_005_009 swfl_00000705-147_069_001 cafd_000000c9-001_005_000	hwel_000000c4-003_001_003 hwap_000000c5-255_255_255 btld_00000704-001_005_009 cafd_000000c9-001_005_000 swfl_00000705-152_069_000 (new) swfl_00000705-147_069_001 cafd_000000c9-001_006_000 (new)
GWS	hwel_000000ca-002_001_002 hwap_0000057c-255_255_255 btld_000003e9-001_001_000 swfl_00000484-001_002_000 cafd_000000d0-003_004_000	hwel_000000ca-002_001_002 hwap_0000057c-255_255_255 btld_000003e9-001_001_000 cafd_000000d0-003_004_000 swfl_00000484-001_002_001 (new) swfl_00000484-001_002_000
SMBF	hwel_000000b2-004_000_000 hwap_000001cd-255_255_255 btld_000003e4-006_000_005 swfl_00000422-005_006_000 cafd_000000b6-005_005_001	hwel_000000b2-004_000_000 hwap_000001cd-255_255_255 btld_000003e4-006_000_005 cafd_000000b6-005_005_001 swfl_00000422-006_005_000 (new) swfl_00000422-005_006_000 cafd_000000b6-006_005_002 (new)
SMFA	hwel_000000b2-004_000_000 hwap_000001cd-255_255_255 btld_000003e4-006_000_005 swfl_00000422-005_006_000 cafd_000000b5-005_005_001	hwel_000000b2-004_000_000 hwap_000001cd-255_255_255 btld_000003e4-006_000_005 cafd_000000b5-005_005_001 swfl_00000422-006_005_000 (new) swfl_00000422-005_006_000 cafd_000000b5-006_005_003 (new)
SMBFH	hwel_00000195-004_000_000 hwap_000001ca-255_255_255 btld_000003e4-006_000_005 swfl_00000422-005_006_000 cafd_000000b8-005_005_000	hwel_00000195-004_000_000 hwap_000001ca-255_255_255 btld_000003e4-006_000_005 cafd_000000b8-005_005_000 swfl_00000422-006_005_000 (new) swfl_00000422-005_006_000 cafd_000000b8-006_005_000 (new)
SMFAH	hwel_00000195-004_000_000 hwap_000001ca-255_255_255 btld_000003e4-006_000_005 swfl_00000422-005_006_000 cafd_000000b7-005_005_000	hwel_00000195-004_000_000 hwap_000001ca-255_255_255 btld_000003e4-006_000_005 cafd_000000b7-005_005_000 swfl_00000422-006_005_000 (new) swfl_00000422-005_006_000 cafd_000000b7-006_005_000 (new)
AMPT/AMPH	btld_000001e1-001_001_000 hwel_000001fa-001_002_000 swfl_000001fb-001_011_000 swfl_000001fc-001_011_000 cafd_000001fd-002_002_000	btld_000001e1-001_001_000 hwel_000001fa-001_002_000 cafd_000001fd-002_002_000 swfl_000001fb-001_012_000 (new) swfl_000001fc-001_012_000 (new) swfl_000001fb-001_011_000 swfl_000001fc-001_011_000
EGS	hwel_00000123-010_020_005 btld_00000643-018_029_004 swfl_00000648-042_002_066 swfl_00000644-000_042_000 cafd_0000012b-032_032_000	hwel_00000123-010_020_005 btld_00000643-018_029_004 cafd_0000012b-032_032_000 swfl_00000648-048_002_083 (new) swfl_00000644-000_048_000 (new) swfl_00000648-042_002_066 swfl_00000644-000_042_000 cafd_0000012b-032_032_003 (new)

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Control module	Status before the measures plan	Status after the measures plan
TCU/ULF	btld_000001e8-000_003_007 hwel_00000203-019_000_001 swfl_00000204-012_001_009 hwap_00000935-255_255_255 cafd_00000205-022_000_005	btld_000001e8-000_003_007 hwel_00000203-019_000_001 hwap_00000935-255_255_255 cafd_00000205-022_000_005 swfl_00000204-013_001_003 (new) swfl_00000204-012_001_009 cafd_00000205-022_003_000 (new)
DME/DDE	hwel_0000006a-002_029_003 btld_0000064c-002_039_004 swfl_0000065b-099_014_001 swfl_00000750-099_014_005 cafd_00000721-000_000_014	hwel_0000006a-002_029_003 btld_0000064c-002_039_004 swfl_0000065b-099_014_001 cafd_00000721-000_000_014 swfl_00000750-099_014_006 (new) swfl_00000750-099_014_005
ACSM	hwel_00000099-005_000_001 btld_0000030a-005_000_008 swfl_000003d9-005_001_027 cafd_0000009c-004_005_006 cafd_0000009d-005_000_002 cafd_00000147-005_000_002	hwel_00000099-005_000_001 btld_0000030a-005_000_008 cafd_0000009c-004_005_006 cafd_0000009d-005_000_002 cafd_00000147-005_000_002 swfl_000003d9-005_003_001 (new) swfl_000003d9-005_001_027 cafd_0000009c-004_009_006 (new) cafd_0000009d-006_003_004 (new) cafd_00000147-006_001_003 (new)
EKPS	hwel_00000094-000_000_015 btld_00000619-000_080_096 swfl_000003d8-000_080_106 cafd_00000098-000_008_022	hwel_00000094-000_000_015 btld_00000619-000_080_096 cafd_00000098-000_008_022 swfl_000003d8-000_080_113 (new) swfl_000003d8-000_080_106 cafd_00000098-000_008_045 (new)
EMF	hwel_0000006f-000_002_000 btld_000003c8-000_007_000 swfl_000003c9-000_014_000	hwel_0000006f-000_002_000 swfl_000003c9-000_017_000 (new) btld_000003c8-000_007_000
ULF_SBX	btld_000001e7-001_000_000 hwel_000001f3-012_000_000 swfl_000001f4-006_019_007 swfl_000001f5-006_019_007 cafd_000001f6-019_005_002	btld_000001e7-001_000_000 hwel_000001f3-012_000_000 cafd_000001f6-019_005_002 swfl_000001f5-008_017_000 (new) swfl_000001f4-008_017_000 (new) swfl_000001f4-006_019_007 swfl_000001f5-006_019_007 cafd_000001f6-019_006_005 (new)