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EMCS TM PARAMETERS

| PREF | NAME | UNIT | PTC | PFC | F/V | DEFAULT | MINIMUM | MAXIMUM | CURVE/ALIAS |
|-------|------------------|------|-----|-----|-----|---------|---------|---------|-------------|
| FIX | Fix bit pattern | n/a | 0 | 0 | F | | | | |
| K1001 | D Prim PW Consum | A | 3 | 12 | V | | | | 4009 |
| K1002 | D P.S. Temp #1 | degC | 3 | 12 | V | | | | 4011 |
| K1003 | D P.S. Temp #2 | degC | 3 | 12 | V | | | | 4011 |
| K1004 | D +5 V PW Supply | V | 3 | 12 | V | | | | 4022 |
| K1005 | D DBU Power +6V | V | 3 | 12 | V | | | | 4022 |
| K1006 | D +15V PW Supply | V | 3 | 12 | V | | | | 4022 |
| K1007 | D -15V PW Supply | V | 3 | 12 | V | | | | 4022 |
| K1008 | G EMCS Oper Mode | n/a | 2 | 8 | V | | | | 4016 |
| K1009 | G EMCS Status | n/a | 2 | 8 | V | | | | 4017 |
| K1010 | D Door HOP Stat. | n/a | 2 | 1 | V | | | | 4005 |
| K1011 | D Ven Val HOP St | n/a | 2 | 1 | V | | | | 4005 |
| K1012 | D FW Coil 1 Stat | n/a | 2 | 1 | V | | | | 4005 |
| K1013 | D FW Coil 2 Stat | n/a | 2 | 1 | V | | | | 4005 |
| K1014 | D Ann Heater St. | n/a | 2 | 1 | V | | | | 4005 |
| K1015 | D Shr Heater St. | n/a | 2 | 1 | V | | | | 4005 |
| K1016 | D Door HOP LCP | n/a | 2 | 1 | V | | | | 4005 |
| K1017 | D VenVal HOP LCP | n/a | 2 | 1 | V | | | | 4005 |
| K1018 | D FW Coil 1 LCP | n/a | 2 | 1 | V | | | | 4005 |
| K1019 | D FW Coil 2 LCP | n/a | 2 | 1 | V | | | | 4005 |
| K1020 | D Ann Heater LCP | n/a | 2 | 1 | V | | | | 4005 |
| K1021 | D Shr Heater LCP | n/a | 2 | 1 | V | | | | 4005 |
| K1022 | D Door HOP CLS | n/a | 2 | 1 | V | | | | 4005 |
| K1023 | D VenVal HOP CLS | n/a | 2 | 1 | V | | | | 4005 |
| K1024 | D FW Coil 1 CLS | n/a | 2 | 1 | V | | | | 4005 |
| K1025 | D FW Coil 2 CLS | n/a | 2 | 1 | V | | | | 4005 |
| K1026 | D Ann Heater CLS | n/a | 2 | 1 | V | | | | 4005 |
| K1027 | D Shr Heater CLS | n/a | 2 | 1 | V | | | | 4005 |
| K1028 | D HBR1 Ch. Conf. | n/a | 2 | 8 | V | | | | 4018 |
| K1029 | D HBR2 Ch. Conf. | n/a | 2 | 8 | V | | | | 4018 |
| K1030 | D HBR3 Ch. Conf. | n/a | 2 | 8 | V | | | | 4018 |
| K1031 | D HBR4 Ch. Conf. | n/a | 2 | 8 | V | | | | 4018 |
| K1032 | D HBR5 Ch. Conf. | n/a | 2 | 8 | V | | | | 4018 |
| K1033 | D HBR6 Ch. Conf. | n/a | 2 | 8 | V | | | | 4018 |
| K1034 | D HBR7 Ch. Conf. | n/a | 2 | 8 | V | | | | 4018 |
| K1035 | D HBR8 Ch. Conf. | n/a | 2 | 8 | V | | | | 4018 |
| K1036 | D HBR 1 Buff Occ | n/a | 3 | 4 | V | | | | |
| K1037 | D HBR 2 Buff Occ | n/a | 3 | 4 | V | | | | |
| K1038 | D HBR 3 Buff Occ | n/a | 3 | 4 | V | | | | |
| K1039 | D HBR 4 Buff Occ | n/a | 3 | 4 | V | | | | |
| K1040 | D HBR 5 Buff Occ | n/a | 3 | 4 | V | | | | |
| K1041 | D HBR 6 Buff Occ | n/a | 3 | 4 | V | | | | |
| K1042 | D HBR 7 Buff Occ | n/a | 3 | 4 | V | | | | |
| K1043 | D HBR 8 Buff Occ | n/a | 3 | 4 | V | | | | |
| K1044 | CTimAutResPreVal | sec | 3 | 12 | V | | | | |
| K1045 | D LBR I/F Status | n/a | 2 | 0 | V | | | | 4037 |
| K1046 | DLast Com FW Pos | n/a | 3 | 12 | V | | | | |
| K1047 | D HBR1 Disc Even | n/a | 3 | 12 | V | | | | |
| K1048 | D HBR2 Disc Even | n/a | 3 | 12 | V | | | | |
| K1049 | D HBR3 Disc Even | n/a | 3 | 12 | V | | | | |
| K1050 | D HBR4 Disc Even | n/a | 3 | 12 | V | | | | |
| K1051 | D HBR5 Disc Even | n/a | 3 | 12 | V | | | | |
| K1052 | D HBR6 Disc Even | n/a | 3 | 12 | V | | | | |
| K1053 | D HBR7 Disc Even | n/a | 3 | 12 | V | | | | |
| K1054 | D HBR8 Disc Even | n/a | 3 | 12 | V | | | | |
| K1055 | D HBR1 Disc Fram | n/a | 3 | 12 | V | | | | |
| K1056 | D HBR2 Disc Fram | n/a | 3 | 12 | V | | | | |
| K1057 | D HBR3 Disc Fram | n/a | 3 | 12 | V | | | | |
| K1058 | D HBR4 Disc Fram | n/a | 3 | 12 | V | | | | |
| K1059 | D HBR5 Disc Fram | n/a | 3 | 12 | V | | | | |
| K1060 | D HBR6 Disc Fram | n/a | 3 | 12 | V | | | | |
| K1061 | D HBR7 Disc Fram | n/a | 3 | 12 | V | | | | |
| K1062 | D HBR8 Disc Fram | n/a | 3 | 12 | V | | | | |
| K1065 | D Door HOP ArmST | n/a | 2 | 8 | V | | | | 4019 |
| K1066 | D VenValHOPArmST | n/a | 2 | 8 | V | | | | 4019 |

EMCS TM PARAMETERS

| PREF | NAME | UNIT | PTC | PFC | F/V | DEFAULT | MINIMUM | MAXIMUM | CURVE/ALIAS |
|-------|-------------------|------|-----|-----|-----|---------|---------|---------|-------------|
| K1067 | C H/K Ref Status | n/a | 2 | 0 | V | | | | 4034 |
| K1068 | C EDU 0 Status | n/a | 3 | 12 | V | | | | |
| K1069 | C EDU 1 Status | n/a | 3 | 12 | V | | | | |
| K1070 | C EDU 2 Status | n/a | 3 | 12 | V | | | | |
| K1071 | C EDU 3 Status | n/a | 3 | 12 | V | | | | |
| K1072 | C EDU 4 Status | n/a | 3 | 12 | V | | | | |
| K1073 | C EDU 5 Status | n/a | 3 | 12 | V | | | | |
| K1074 | C EDU 6 Status | n/a | 3 | 12 | V | | | | |
| K1075 | C EDU 7 Status | n/a | 3 | 12 | V | | | | |
| K1076 | C EMAE -6 V Line | V | 3 | 4 | V | | | | 4000 |
| K1077 | C EMAE +6 V Line | V | 3 | 4 | V | | | | 4000 |
| K1078 | C EMAE -13V Line | V | 3 | 4 | V | | | | 4002 |
| K1079 | C EMAE +13V Line | V | 3 | 4 | V | | | | 4002 |
| K1080 | C EMAE +28V Line | V | 3 | 4 | V | | | | 4004 |
| K1081 | C EMAE +18V Line | V | 3 | 4 | V | | | | 4005 |
| K1082 | C Signal Ground | V | 3 | 4 | V | | | | 4006 |
| K1083 | C EMAE +32V Line | V | 3 | 4 | V | | | | 4007 |
| K1084 | V EMVC Temp. #1 | degC | 3 | 4 | V | | | | 4008 |
| K1085 | C EMCR Temp. #1 | degC | 3 | 4 | V | | | | 4008 |
| K1086 | C EMCR +5 V Line | V | 3 | 4 | V | | | | 4000 |
| K1087 | V EMVC Temp. #2 | degC | 3 | 4 | V | | | | 4008 |
| K1088 | C EMCR -13V Line | V | 3 | 4 | V | | | | 4012 |
| K1089 | C EMCR +13V Line | V | 3 | 4 | V | | | | 4012 |
| K1090 | C EMCR Temp. #2 | degC | 3 | 4 | V | | | | 4008 |
| K1091 | C EMAECmEchoErCnt | n/a | 3 | 4 | V | | | | |
| K1092 | C EMAELsWrEchoCom | n/a | 2 | 8 | V | | | | |
| K1093 | E CCD 1 VBB | V | 3 | 4 | V | | | | 4026 |
| K1094 | E CCD 1 VSS | V | 3 | 4 | V | | | | 4016 |
| K1095 | E CCD 1 VID | V | 3 | 4 | V | | | | 4026 |
| K1096 | E CCD 1 VGR | V | 3 | 4 | V | | | | 4026 |
| K1097 | E CCD 1 VRD1 | V | 3 | 4 | V | | | | 4019 |
| K1098 | E CCD 1 VOG1 | V | 3 | 4 | V | | | | 4016 |
| K1099 | E CCD 1 VOG2 | V | 3 | 4 | V | | | | 4016 |
| K1100 | E CCD 1 VOD1 | V | 3 | 4 | V | | | | 4015 |
| K1101 | E CCD 1 VOD2 | V | 3 | 4 | V | | | | 4015 |
| K1102 | E CCD 1 VRD2 | V | 3 | 4 | V | | | | 4019 |
| K1103 | E CCD 1 S | V | 3 | 4 | V | | | | 4025 |
| K1104 | E CCD 1 I | V | 3 | 4 | V | | | | 4029 |
| K1105 | E CCD 1 IG | V | 3 | 4 | V | | | | 4030 |
| K1106 | E CCD 1 R | V | 3 | 4 | V | | | | 4025 |
| K1107 | E CCD 1 RESET 2 | V | 3 | 4 | V | | | | 4031 |
| K1108 | E CCD 1 RESET 1 | V | 3 | 4 | V | | | | 4031 |
| K1109 | A AnCh1/2 SeqRam | n/a | 2 | 1 | V | | | | 4020 |
| K1110 | AAAnCh1/2InbCtrlC | n/a | 2 | 1 | V | | | | 4005 |
| K1111 | AAAnCh1/2InbCtrlB | n/a | 2 | 1 | V | | | | 4005 |
| K1112 | AAAnCh1/2InbCtrlA | n/a | 2 | 1 | V | | | | 4005 |
| K1113 | AAAnCh1/2IntSimul | n/a | 2 | 3 | V | | | | 4021 |
| K1116 | AAAnCh1/2GaNmSet | n/a | 3 | 4 | V | | | | |
| K1117 | AAAnCh1/2LoadAddL | n/a | 3 | 3 | V | | | | |
| K1118 | AAAnCh1/2LoadAddM | n/a | 2 | 2 | V | | | | |
| K1119 | A Seq PC FW Mode | n/a | 2 | 1 | V | | | | 4020 |
| K1120 | A SeqPCFWDrvInbC | n/a | 2 | 1 | V | | | | 4005 |
| K1121 | A SeqPCFWDrvInbB | n/a | 2 | 1 | V | | | | 4005 |
| K1122 | A SeqPCFWDrvInbA | n/a | 2 | 1 | V | | | | 4005 |
| K1123 | ASeqPCWhDrvDirec | n/a | 2 | 1 | V | | | | 4011 |
| K1124 | A SeqPCWhMovTrig | n/a | 2 | 1 | V | | | | |
| K1125 | AAAnCh1/2LoadData | n/a | 3 | 4 | V | | | | |
| K1126 | A SeqFW LoadAddL | n/a | 3 | 3 | V | | | | |
| K1127 | A SeqFW LoadAddM | n/a | 2 | 2 | V | | | | |
| K1128 | A FWActStepCntM | n/a | 3 | 4 | V | | | | |
| K1129 | A SeqFW LoadData | n/a | 3 | 4 | V | | | | |
| K1130 | A AnCh8 PWStatus | n/a | 2 | 1 | V | | | | 4005 |
| K1131 | A AnCh7 PWStatus | n/a | 2 | 1 | V | | | | 4005 |
| K1132 | A AnCh6 PWStatus | n/a | 2 | 1 | V | | | | 4005 |
| K1133 | A AnCh5 PWStatus | n/a | 2 | 1 | V | | | | 4005 |

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| PREF | NAME | UNIT | PTC | PFC | F/V | DEFAULT | MINIMUM | MAXIMUM | CURVE/ALIAS |
|-------|-------------------|------|-----|-----|-----|---------|---------|---------|-------------|
| K1134 | A AnCh4 PWStatus | n/a | 2 | 1 | V | | | | 4005 |
| K1135 | A AnCh3 PWStatus | n/a | 2 | 1 | V | | | | 4005 |
| K1136 | A AnCh2 PWStatus | n/a | 2 | 1 | V | | | | 4005 |
| K1137 | A AnCh1 PWStatus | n/a | 2 | 1 | V | | | | 4005 |
| K1138 | A FWActStepCntL | n/a | 3 | 4 | V | | | | |
| K1139 | H PreAmp14 PW ST | n/a | 2 | 1 | V | | | | 4005 |
| K1140 | H PreAmp13 PW ST | n/a | 2 | 1 | V | | | | 4005 |
| K1141 | H PreAmp12 PW ST | n/a | 2 | 1 | V | | | | 4005 |
| K1142 | H PreAmp11 PW ST | n/a | 2 | 1 | V | | | | 4005 |
| K1143 | H PreAmp10 PW ST | n/a | 2 | 1 | V | | | | 4005 |
| K1144 | H PreAmp09 PW ST | n/a | 2 | 1 | V | | | | 4005 |
| K1145 | H PreAmp01 PW ST | n/a | 2 | 1 | V | | | | 4005 |
| K1146 | H PreAmp02 PW ST | n/a | 2 | 1 | V | | | | 4005 |
| K1147 | H PreAmp03 PW ST | n/a | 2 | 1 | V | | | | 4005 |
| K1148 | H PreAmp04 PW ST | n/a | 2 | 1 | V | | | | 4005 |
| K1149 | H PreAmp05 PW ST | n/a | 2 | 1 | V | | | | 4005 |
| K1150 | H PreAmp06 PW ST | n/a | 2 | 1 | V | | | | 4005 |
| K1151 | H PreAmp07 PW ST | n/a | 2 | 1 | V | | | | 4005 |
| K1152 | H PreAmp08 PW ST | n/a | 2 | 1 | V | | | | 4005 |
| K1153 | ASeq7/8ReadOutSy | n/a | 2 | 1 | V | | | | 4003 |
| K1154 | ASeq5/6ReadOutSy | n/a | 2 | 1 | V | | | | 4003 |
| K1155 | ASeq3/4ReadOutSy | n/a | 2 | 1 | V | | | | 4003 |
| K1156 | ASeq1/2ReadOutSy | n/a | 2 | 1 | V | | | | 4003 |
| K1157 | ASeq7/8FrmTranSy | n/a | 2 | 1 | V | | | | 4003 |
| K1158 | ASeq5/6FrmTranSy | n/a | 2 | 1 | V | | | | 4003 |
| K1159 | ASeq3/4FrmTranSy | n/a | 2 | 1 | V | | | | 4003 |
| K1160 | ASeq1/2FrmTranSy | n/a | 2 | 1 | V | | | | 4003 |
| K1161 | AFPTCPwStAnHeReD | n/a | 2 | 1 | V | | | | 4005 |
| K1162 | AFPTCPwStVacuSen | n/a | 2 | 1 | V | | | | 4005 |
| K1163 | AFPTCPwStTemConR | n/a | 2 | 1 | V | | | | 4005 |
| K1164 | AFPTCPwStTemConN | n/a | 2 | 1 | V | | | | 4005 |
| K1165 | E CCD 2 VBB | V | 3 | 4 | V | | | | 4026 |
| K1166 | E CCD 2 VSS | V | 3 | 4 | V | | | | 4016 |
| K1167 | E CCD 2 VID | V | 3 | 4 | V | | | | 4026 |
| K1168 | E CCD 2 VGR | V | 3 | 4 | V | | | | 4026 |
| K1169 | E CCD 2 VRD1 | V | 3 | 4 | V | | | | 4019 |
| K1170 | E CCD 2 VOG1 | V | 3 | 4 | V | | | | 4016 |
| K1171 | E CCD 2 VOG2 | V | 3 | 4 | V | | | | 4016 |
| K1172 | E CCD 2 VOD1 | V | 3 | 4 | V | | | | 4015 |
| K1173 | E CCD 2 VOD2 | V | 3 | 4 | V | | | | 4015 |
| K1174 | E CCD 2 VRD2 | V | 3 | 4 | V | | | | 4019 |
| K1175 | E CCD 2 S | V | 3 | 4 | V | | | | 4025 |
| K1176 | E CCD 2 I | V | 3 | 4 | V | | | | 4029 |
| K1177 | E CCD 2 IG | V | 3 | 4 | V | | | | 4030 |
| K1178 | E CCD 2 R | V | 3 | 4 | V | | | | 4025 |
| K1179 | E CCD2 RESET2 | V | 3 | 4 | V | | | | 4031 |
| K1180 | E CCD2 RESET1 | V | 3 | 4 | V | | | | 4031 |
| K1181 | E CCD 5 VBB | V | 3 | 4 | V | | | | 4026 |
| K1182 | E CCD 5 VSS | V | 3 | 4 | V | | | | 4016 |
| K1183 | E CCD 5 VID | V | 3 | 4 | V | | | | 4026 |
| K1184 | E CCD 5 VGR | V | 3 | 4 | V | | | | 4026 |
| K1185 | E CCD 5 VRD1 | V | 3 | 4 | V | | | | 4019 |
| K1186 | E CCD 5 VOG1 | V | 3 | 4 | V | | | | 4016 |
| K1187 | E CCD 5 VOG2 | V | 3 | 4 | V | | | | 4016 |
| K1188 | E CCD 5 VOD1 | V | 3 | 4 | V | | | | 4015 |
| K1189 | E CCD 5 VOD2 | V | 3 | 4 | V | | | | 4015 |
| K1190 | E CCD 5 VRD2 | V | 3 | 4 | V | | | | 4019 |
| K1191 | E CCD 5 S | V | 3 | 4 | V | | | | 4025 |
| K1192 | E CCD 5 I | V | 3 | 4 | V | | | | 4029 |
| K1193 | E CCD 5 IG | V | 3 | 4 | V | | | | 4030 |
| K1194 | E CCD 5 R | V | 3 | 4 | V | | | | 4025 |
| K1195 | E CCD 5 RESET2 | V | 3 | 4 | V | | | | 4031 |
| K1196 | E CCD 5 RESET1 | V | 3 | 4 | V | | | | 4031 |
| K1197 | A AnCh3/4 SeqRam | n/a | 2 | 1 | V | | | | 4020 |
| K1198 | AAAnCh3/4InbCtrlC | n/a | 2 | 1 | V | | | | 4005 |

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|-------|-------------------|------|-----|-----|-----|---------|---------|---------|-------------|
| K1199 | AAAnCh3/4InbCtrlB | n/a | 2 | 1 | V | | | | 4005 |
| K1200 | AAAnCh3/4InbCtrlA | n/a | 2 | 1 | V | | | | 4005 |
| K1201 | AAAnCh3/4IntSimul | n/a | 2 | 3 | V | | | | 4021 |
| K1204 | AAAnCh3/4GaNumSet | n/a | 3 | 4 | V | | | | |
| K1205 | AAAnCh3/4LoadAddL | n/a | 3 | 3 | V | | | | |
| K1206 | AAAnCh3/4LoadAddM | n/a | 2 | 2 | V | | | | |
| K1207 | AFPNomThCoTemSet | degC | 3 | 4 | V | | | | 4034 |
| K1208 | AAAnCh3/4LoadData | n/a | 3 | 4 | V | | | | |
| K1209 | E CCD 4 VSS | V | 3 | 4 | V | | | | 4016 |
| K1210 | AFPRedThCoTemSet | degC | 3 | 4 | V | | | | 4034 |
| K1211 | E CCD 4 VGR | V | 3 | 4 | V | | | | 4026 |
| K1212 | E CCD 4 VBB | V | 3 | 4 | V | | | | 4026 |
| K1213 | E CCD 4 VOG1 | V | 3 | 4 | V | | | | 4016 |
| K1214 | E CCD 4 VID | V | 3 | 4 | V | | | | 4026 |
| K1215 | E CCD 4 VOD1 | V | 3 | 4 | V | | | | 4015 |
| K1216 | E CCD 4 VRD1 | V | 3 | 4 | V | | | | 4019 |
| K1217 | E CCD 4 VRD2 | V | 3 | 4 | V | | | | 4019 |
| K1218 | E CCD 4 VOG2 | V | 3 | 4 | V | | | | 4016 |
| K1219 | E CCD 4 I | V | 3 | 4 | V | | | | 4029 |
| K1220 | E CCD 4 VOD2 | V | 3 | 4 | V | | | | 4015 |
| K1221 | E CCD 4 R | V | 3 | 4 | V | | | | 4025 |
| K1222 | E CCD 4 S | V | 3 | 4 | V | | | | 4025 |
| K1223 | E CCD 4 RESET 1 | V | 3 | 4 | V | | | | 4031 |
| K1224 | E CCD 4 IG | V | 3 | 4 | V | | | | 4030 |
| K1225 | E CCD 7 VSS | V | 3 | 4 | V | | | | 4016 |
| K1226 | E CCD 4 RESET2 | V | 3 | 4 | V | | | | 4031 |
| K1227 | E CCD 7 VGR | V | 3 | 4 | V | | | | 4026 |
| K1228 | E CCD 7 VBB | V | 3 | 4 | V | | | | 4026 |
| K1229 | E CCD 7 VOG1 | V | 3 | 4 | V | | | | 4016 |
| K1230 | E CCD 7 VID | V | 3 | 4 | V | | | | 4026 |
| K1231 | E CCD 7 VOD1 | V | 3 | 4 | V | | | | 4015 |
| K1232 | E CCD 7 VRD1 | V | 3 | 4 | V | | | | 4019 |
| K1233 | E CCD 7 VRD2 | V | 3 | 4 | V | | | | 4019 |
| K1234 | E CCD 7 VOG2 | V | 3 | 4 | V | | | | 4016 |
| K1235 | E CCD 7 I | V | 3 | 4 | V | | | | 4029 |
| K1236 | E CCD 7 VOD2 | V | 3 | 4 | V | | | | 4015 |
| K1237 | E CCD 7 R | V | 3 | 4 | V | | | | 4025 |
| K1238 | E CCD 7 S | V | 3 | 4 | V | | | | 4025 |
| K1239 | E CCD 7 RESET1 | V | 3 | 4 | V | | | | 4031 |
| K1240 | E CCD 7 IG | V | 3 | 4 | V | | | | 4030 |
| K1241 | AAAnCh5/6GaNumSet | n/a | 3 | 4 | V | | | | |
| K1242 | E CCD 7 RESET2 | V | 3 | 4 | V | | | | 4031 |
| K1243 | AAAnCh5/6LoadAddM | n/a | 2 | 2 | V | | | | |
| K1244 | A AnCh5/6 SeqRam | n/a | 2 | 1 | V | | | | 4020 |
| K1245 | AAAnCh5/6InbCtrlC | n/a | 2 | 1 | V | | | | 4005 |
| K1246 | AAAnCh5/6InbCtrlB | n/a | 2 | 1 | V | | | | 4005 |
| K1247 | AAAnCh5/6InbCtrlA | n/a | 2 | 1 | V | | | | 4005 |
| K1248 | AAAnCh5/6IntSimul | n/a | 2 | 3 | V | | | | 4021 |
| K1251 | AAAnCh5/6LoadData | n/a | 3 | 4 | V | | | | |
| K1252 | AAAnCh5/6LoadAddL | n/a | 3 | 3 | V | | | | |
| K1253 | H FPlanNorRanTem | degC | 3 | 4 | V | | | | 4027 |
| K1254 | H FW NominalStop | n/a | 2 | 1 | V | | | | 4013 |
| K1255 | HDoorBellowState | n/a | 2 | 1 | V | | | | 4029 |
| K1256 | H Door Open uSw | n/a | 2 | 1 | V | | | | 4027 |
| K1257 | H FW Position | n/a | 2 | 3 | V | | | | 4012 |
| K1258 | H FW Redund Stop | n/a | 2 | 1 | V | | | | 4013 |
| K1260 | AFPRedThCoTemMon | degC | 3 | 4 | V | | | | 4098 |
| K1261 | H Vacuum Monitor | mV | 3 | 4 | V | | | | 4099 |
| K1262 | H Secon Rad Temp | degC | 3 | 4 | V | | | | 4100 |
| K1263 | A Rad. Mon. FET1 | mV | 3 | 4 | V | | | | 4099 |
| K1264 | A Rad. Mon. FET3 | mV | 3 | 4 | V | | | | 4099 |
| K1265 | HDoorBellowPress | Bar | 3 | 4 | V | | | | 4101 |
| K1266 | E CCD 3 VBB | V | 3 | 4 | V | | | | 4026 |
| K1267 | E CCD 3 VSS | V | 3 | 4 | V | | | | 4016 |
| K1268 | E CCD 3 VID | V | 3 | 4 | V | | | | 4026 |

EMCS TM PARAMETERS

| PREF | NAME | UNIT | PTC | PFC | F/V | DEFAULT | MINIMUM | MAXIMUM | CURVE/ALIAS |
|-------|-------------------|------|-----|-----|-----|---------|---------|---------|-------------|
| K1269 | E CCD 3 VGR | V | 3 | 4 | V | | | | 4026 |
| K1270 | E CCD 3 VRD1 | V | 3 | 4 | V | | | | 4019 |
| K1271 | E CCD 3 VOG1 | V | 3 | 4 | V | | | | 4016 |
| K1272 | E CCD 3 VOG2 | V | 3 | 4 | V | | | | 4016 |
| K1273 | E CCD 3 VOD1 | V | 3 | 4 | V | | | | 4015 |
| K1274 | E CCD 3 VOD2 | V | 3 | 4 | V | | | | 4015 |
| K1275 | E CCD 3 VRD2 | V | 3 | 4 | V | | | | 4019 |
| K1276 | E CCD 3 S | V | 3 | 4 | V | | | | 4025 |
| K1277 | E CCD 3 I | V | 3 | 4 | V | | | | 4029 |
| K1278 | E CCD 3 IG | V | 3 | 4 | V | | | | 4030 |
| K1279 | E CCD 3 R | V | 3 | 4 | V | | | | 4025 |
| K1280 | E CCD 3 RESET2 | V | 3 | 4 | V | | | | 4031 |
| K1281 | E CCD 3 RESET1 | V | 3 | 4 | V | | | | 4031 |
| K1282 | E CCD 6 VBB | V | 3 | 4 | V | | | | 4026 |
| K1283 | E CCD 6 VSS | V | 3 | 4 | V | | | | 4016 |
| K1284 | E CCD 6 VID | V | 3 | 4 | V | | | | 4026 |
| K1285 | E CCD 6 VGR | V | 3 | 4 | V | | | | 4026 |
| K1286 | E CCD 6 VRD1 | V | 3 | 4 | V | | | | 4019 |
| K1287 | E CCD 6 VOG1 | V | 3 | 4 | V | | | | 4016 |
| K1288 | E CCD 6 VOG2 | V | 3 | 4 | V | | | | 4016 |
| K1289 | E CCD 6 VOD1 | V | 3 | 4 | V | | | | 4015 |
| K1290 | E CCD 6 VOD2 | V | 3 | 4 | V | | | | 4015 |
| K1291 | E CCD 6 VRD2 | V | 3 | 4 | V | | | | 4019 |
| K1292 | E CCD 6 S | V | 3 | 4 | V | | | | 4025 |
| K1293 | E CCD 6 I | V | 3 | 4 | V | | | | 4029 |
| K1294 | E CCD 6 IG | V | 3 | 4 | V | | | | 4030 |
| K1295 | E CCD 6 R | V | 3 | 4 | V | | | | 4025 |
| K1296 | E CCD 6 RESET2 | V | 3 | 4 | V | | | | 4031 |
| K1297 | E CCD 6 RESET1 | V | 3 | 4 | V | | | | 4031 |
| K1298 | A AnCh7/8 SeqRam | n/a | 2 | 1 | V | | | | 4020 |
| K1299 | AAAnCh7/8InbCtrlC | n/a | 2 | 1 | V | | | | 4005 |
| K1300 | AAAnCh7/8InbCtrlB | n/a | 2 | 1 | V | | | | 4005 |
| K1301 | AAAnCh7/8InbCtrlA | n/a | 2 | 1 | V | | | | 4005 |
| K1302 | AAAnCh7/8IntSimul | n/a | 2 | 3 | V | | | | 4021 |
| K1305 | AAAnCh7/8GaNumSet | n/a | 3 | 4 | V | | | | |
| K1306 | AAAnCh7/8LoadAddL | n/a | 3 | 3 | V | | | | |
| K1307 | AAAnCh7/8LoadAddM | n/a | 2 | 2 | V | | | | |
| K1308 | HFPlaneExtRanTem | degC | 3 | 4 | V | | | | 4024 |
| K1309 | AAAnCh7/8LoadData | n/a | 3 | 4 | V | | | | |
| K1310 | H FW Motor Temp | degC | 3 | 4 | V | | | | 4137 |
| K1311 | A AE Electr Temp | degC | 3 | 4 | V | | | | 4138 |
| K1312 | AFPNomThCoTemMon | degC | 3 | 4 | V | | | | 4098 |
| K1313 | A Rad. Mon. FET2 | mV | 3 | 4 | V | | | | 4099 |
| K1314 | A Rad. Mon. FET4 | mV | 3 | 4 | V | | | | 4099 |
| K1315 | H CH Electr Temp | degC | 3 | 4 | V | | | | 4142 |
| K1316 | CFWExpNomStopSen | n/a | 2 | 1 | V | | | | 4013 |
| K1317 | CFWActStepNumRef | n/a | 3 | 12 | V | | | | |
| K1318 | CGroup1SeqNumber | n/a | 3 | 0 | V | | | | |
| K1319 | C Group1 IntTime | sec | 3 | 8 | V | | | | 4023 |
| K1320 | C Gr1 FrstCyDel1 | sec | 3 | 0 | V | | | | 4023 |
| K1321 | C Group1X0Posit. | n/a | 3 | 8 | V | | | | |
| K1322 | C Gr1 FrstCyDel2 | sec | 3 | 0 | V | | | | 4023 |
| K1323 | C Group1Y0Posit. | n/a | 3 | 8 | V | | | | |
| K1324 | CGroup1ReaOuDel1 | sec | 3 | 0 | V | | | | 4023 |
| K1325 | C Group1 X Size | n/a | 3 | 8 | V | | | | |
| K1326 | CGroup1ReaOuDel2 | sec | 3 | 0 | V | | | | 4023 |
| K1327 | C Group1 Y Size | n/a | 3 | 8 | V | | | | |
| K1328 | CGroup2SeqNumber | n/a | 3 | 0 | V | | | | |
| K1329 | C Group2 IntTime | sec | 3 | 8 | V | | | | 4023 |
| K1330 | C Gr2 FrstCyDel1 | sec | 3 | 0 | V | | | | 4023 |
| K1331 | C Group2X0Posit. | n/a | 3 | 8 | V | | | | |
| K1332 | C Gr2 FrstCyDel2 | sec | 3 | 0 | V | | | | 4023 |
| K1333 | C Group2Y0Posit. | n/a | 3 | 8 | V | | | | |
| K1334 | CGroup2ReaOuDel1 | sec | 3 | 0 | V | | | | 4023 |
| K1335 | C Group2 X Size | n/a | 3 | 8 | V | | | | |

EMCS TM PARAMETERS

| PREF | NAME | UNIT | PTC | PFC | F/V | DEFAULT | MINIMUM | MAXIMUM | CURVE/ALIAS |
|-------|------------------|------|-----|-----|-----|---------|---------|---------|-------------|
| K1336 | CGroup2ReaOuDel2 | sec | 3 | 0 | V | | | | 4023 |
| K1337 | C Group2 Y Size | n/a | 3 | 8 | V | | | | |
| K1338 | CGroup3SeqNumber | n/a | 3 | 0 | V | | | | |
| K1339 | C Group3 IntTime | sec | 3 | 8 | V | | | | 4023 |
| K1340 | C Gr3 FrstCyDel1 | sec | 3 | 0 | V | | | | 4023 |
| K1341 | C Group3X0Posit. | n/a | 3 | 8 | V | | | | |
| K1342 | C Gr3 FrstCyDel2 | sec | 3 | 0 | V | | | | 4023 |
| K1343 | C Group3Y0Posit. | n/a | 3 | 8 | V | | | | |
| K1344 | CGroup3ReaOuDel1 | sec | 3 | 0 | V | | | | 4023 |
| K1345 | C Group3 X Size | n/a | 3 | 8 | V | | | | |
| K1346 | CGroup3ReaOuDel2 | sec | 3 | 0 | V | | | | 4023 |
| K1347 | C Group3 Y Size | n/a | 3 | 8 | V | | | | |
| K1348 | CGroup4SeqNumber | n/a | 3 | 0 | V | | | | |
| K1349 | C Group4 IntTime | sec | 3 | 8 | V | | | | 4023 |
| K1350 | C Gr4 FrstCyDel1 | sec | 3 | 0 | V | | | | 4023 |
| K1351 | C Group4X0Posit. | n/a | 3 | 8 | V | | | | |
| K1352 | C Gr4 FrstCyDel2 | sec | 3 | 0 | V | | | | 4023 |
| K1353 | C Group4Y0Posit. | n/a | 3 | 8 | V | | | | |
| K1354 | CGroup4ReaOuDel1 | sec | 3 | 0 | V | | | | 4023 |
| K1355 | C Group4 X Size | n/a | 3 | 8 | V | | | | |
| K1356 | CGroup4ReaOuDel2 | sec | 3 | 0 | V | | | | 4023 |
| K1357 | C Group4 Y Size | n/a | 3 | 8 | V | | | | |
| K1358 | CEDU0OperatioMod | n/a | 2 | 2 | V | | | | 4009 |
| K1359 | CEDU0ScientifMod | n/a | 2 | 2 | V | | | | 4010 |
| K1360 | CEDU0Node0TabOff | n/a | 2 | 3 | V | | | | |
| K1361 | CEDU0Node1TabOff | n/a | 2 | 3 | V | | | | |
| K1362 | CEDU0TabPattMask | n/a | 2 | 3 | V | | | | |
| K1363 | CEDU1OperatioMod | n/a | 2 | 2 | V | | | | 4009 |
| K1364 | CEDU1ScientifMod | n/a | 2 | 2 | V | | | | 4010 |
| K1365 | CEDU1Node0TabOff | n/a | 2 | 3 | V | | | | |
| K1366 | CEDU1Node1TabOff | n/a | 2 | 3 | V | | | | |
| K1367 | CEDU1TabPattMask | n/a | 2 | 3 | V | | | | |
| K1368 | CEDU2OperatioMod | n/a | 2 | 2 | V | | | | 4009 |
| K1369 | CEDU2ScientifMod | n/a | 2 | 2 | V | | | | 4010 |
| K1370 | CEDU2Node0TabOff | n/a | 2 | 3 | V | | | | |
| K1371 | CEDU2Node1TabOff | n/a | 2 | 3 | V | | | | |
| K1372 | CEDU2TabPattMask | n/a | 2 | 3 | V | | | | |
| K1373 | CEDU3OperatioMod | n/a | 2 | 2 | V | | | | 4009 |
| K1374 | CEDU3ScientifMod | n/a | 2 | 2 | V | | | | 4010 |
| K1375 | CEDU3Node0TabOff | n/a | 2 | 3 | V | | | | |
| K1376 | CEDU3Node1TabOff | n/a | 2 | 3 | V | | | | |
| K1377 | CEDU3TabPattMask | n/a | 2 | 3 | V | | | | |
| K1378 | CEDU4OperatioMod | n/a | 2 | 2 | V | | | | 4009 |
| K1379 | CEDU4ScientifMod | n/a | 2 | 2 | V | | | | 4010 |
| K1380 | CEDU4Node0TabOff | n/a | 2 | 3 | V | | | | |
| K1381 | CEDU4Node1TabOff | n/a | 2 | 3 | V | | | | |
| K1382 | CEDU4TabPattMask | n/a | 2 | 3 | V | | | | |
| K1383 | CEDU5OperatioMod | n/a | 2 | 2 | V | | | | 4009 |
| K1384 | CEDU5ScientifMod | n/a | 2 | 2 | V | | | | 4010 |
| K1385 | CEDU5Node0TabOff | n/a | 2 | 3 | V | | | | |
| K1386 | CEDU5Node1TabOff | n/a | 2 | 3 | V | | | | |
| K1387 | CEDU5TabPattMask | n/a | 2 | 3 | V | | | | |
| K1388 | CEDU6OperatioMod | n/a | 2 | 2 | V | | | | 4009 |
| K1389 | CEDU6ScientifMod | n/a | 2 | 2 | V | | | | 4010 |
| K1390 | CEDU6Node0TabOff | n/a | 2 | 3 | V | | | | |
| K1391 | CEDU6Node1TabOff | n/a | 2 | 3 | V | | | | |
| K1392 | CEDU6TabPattMask | n/a | 2 | 3 | V | | | | |
| K1393 | CEDU7OperatioMod | n/a | 2 | 2 | V | | | | 4009 |
| K1394 | CEDU7ScientifMod | n/a | 2 | 2 | V | | | | 4010 |
| K1395 | CEDU7Node0TabOff | n/a | 2 | 3 | V | | | | |
| K1396 | CEDU7Node1TabOff | n/a | 2 | 3 | V | | | | |
| K1397 | CEDU7TabPattMask | n/a | 2 | 3 | V | | | | |
| K1398 | C EDU0Node0Thres | n/a | 3 | 12 | V | | | | |
| K1399 | C EDU0Node1Thres | n/a | 3 | 12 | V | | | | |
| K1400 | C EDU1Node0Thres | n/a | 3 | 12 | V | | | | |

EMCS TM PARAMETERS

| PREF | NAME | UNIT | PTC | PFC | F/V | DEFAULT | MINIMUM | MAXIMUM | CURVE/ALIAS |
|-------|--------------------|------|-----|-----|-----|---------|---------|---------|-------------|
| K1401 | C EDU1Node1Thres | n/a | 3 | 12 | V | | | | |
| K1402 | C EDU2Node0Thres | n/a | 3 | 12 | V | | | | |
| K1403 | C EDU2Node1Thres | n/a | 3 | 12 | V | | | | |
| K1404 | C EDU3Node0Thres | n/a | 3 | 12 | V | | | | |
| K1405 | C EDU3Node1Thres | n/a | 3 | 12 | V | | | | |
| K1406 | C EDU4Node0Thres | n/a | 3 | 12 | V | | | | |
| K1407 | C EDU4Node1Thres | n/a | 3 | 12 | V | | | | |
| K1408 | C EDU5Node0Thres | n/a | 3 | 12 | V | | | | |
| K1409 | C EDU5Node1Thres | n/a | 3 | 12 | V | | | | |
| K1410 | C EDU6Node0Thres | n/a | 3 | 12 | V | | | | |
| K1411 | C EDU6Node1Thres | n/a | 3 | 12 | V | | | | |
| K1412 | C EDU7Node0Thres | n/a | 3 | 12 | V | | | | |
| K1413 | C EDU7Node1Thres | n/a | 3 | 12 | V | | | | |
| K1414 | C Selected EDU | n/a | 3 | 0 | V | | | | |
| K1415 | C TestImageHighEn | n/a | 3 | 8 | V | | | | |
| K1416 | C TestConfigType | n/a | 2 | 1 | V | | | | 4015 |
| K1417 | CTstConfigPatter | n/a | 2 | 3 | V | | | | |
| K1418 | C TestImageLowEn | n/a | 3 | 8 | V | | | | |
| K1419 | C AnnDriveStatus | n/a | 2 | 1 | V | | | | 4005 |
| K1420 | C FW OpConfMotor | n/a | 2 | 2 | V | | | | 4007 |
| K1421 | C FWOpConfRotDir | n/a | 2 | 1 | V | | | | 4011 |
| K1422 | CFWOpConfRotMode | n/a | 2 | 1 | V | | | | 4014 |
| K1423 | CFWOpConfReqPosS | n/a | 3 | 7 | V | | | | |
| K1424 | C Ann.Min. Tem.Set | degC | 3 | 4 | V | | | | 4024 |
| K1425 | C Ann.Max. Tem.Set | degC | 3 | 4 | V | | | | 4024 |
| K1426 | CFWStatusTimeOut | n/a | 2 | 1 | V | | | | 4026 |
| K1427 | C FWStatusPosErr | n/a | 2 | 1 | V | | | | 4013 |
| K1428 | CFWStatusEMReqSt | n/a | 3 | 7 | V | | | | |
| K1429 | C Rej DH Cm Cnt | n/a | 3 | 4 | V | | | | |
| K1430 | C Last Ac DH Com | n/a | 3 | 4 | V | | | | |
| K1431 | C EDU Cm OK Cnt | n/a | 3 | 4 | V | | | | |
| K1432 | C EDU Cm Rec Cnt | n/a | 3 | 4 | V | | | | |
| K1433 | C EDU Cm Rej Cnt | n/a | 3 | 4 | V | | | | |
| K1434 | C EDUTabLoaOKCnt | n/a | 3 | 4 | V | | | | |
| K1435 | CEDUTabLoaRecCnt | n/a | 3 | 4 | V | | | | |
| K1436 | CEDUTabLoaRejCnt | n/a | 3 | 4 | V | | | | |
| K1437 | C FIFOEDUCmRej16 | n/a | 3 | 4 | V | | | | |
| K1438 | C FIFOEDUCmRej15 | n/a | 3 | 4 | V | | | | |
| K1439 | C FIFOEDUCmRej14 | n/a | 3 | 4 | V | | | | |
| K1440 | C FIFOEDUCmRej13 | n/a | 3 | 4 | V | | | | |
| K1441 | C FIFOEDUCmRej12 | n/a | 3 | 4 | V | | | | |
| K1442 | C FIFOEDUCmRej11 | n/a | 3 | 4 | V | | | | |
| K1443 | C FIFOEDUCmRej10 | n/a | 3 | 4 | V | | | | |
| K1444 | C FIFOEDUCmRej9 | n/a | 3 | 4 | V | | | | |
| K1445 | C FIFOEDUCmRej8 | n/a | 3 | 4 | V | | | | |
| K1446 | C FIFOEDUCmRej7 | n/a | 3 | 4 | V | | | | |
| K1447 | C FIFOEDUCmRej6 | n/a | 3 | 4 | V | | | | |
| K1448 | C FIFOEDUCmRej5 | n/a | 3 | 4 | V | | | | |
| K1449 | C FIFOEDUCmRej4 | n/a | 3 | 4 | V | | | | |
| K1450 | C FIFOEDUCmRej3 | n/a | 3 | 4 | V | | | | |
| K1451 | C FIFOEDUCmRej2 | n/a | 3 | 4 | V | | | | |
| K1452 | C FIFOEDUCmRej1 | n/a | 3 | 4 | V | | | | |
| K1453 | C EMAE Cm OK Cnt | n/a | 3 | 4 | V | | | | |
| K1454 | CEMAE Cm Rec Cnt | n/a | 3 | 4 | V | | | | |
| K1455 | CEMAE Cm Rej Cnt | n/a | 3 | 4 | V | | | | |
| K1456 | CEMAESeqLoaOKCnt | n/a | 3 | 4 | V | | | | |
| K1457 | CEMAESeqLdRecCnt | n/a | 3 | 4 | V | | | | |
| K1458 | CEMAESeqLdRejCnt | n/a | 3 | 4 | V | | | | |
| K1459 | CFIFOEMAECmRej16 | n/a | 3 | 4 | V | | | | |
| K1460 | CFIFOEMAECmRej15 | n/a | 3 | 4 | V | | | | |
| K1461 | CFIFOEMAECmRej14 | n/a | 3 | 4 | V | | | | |
| K1462 | CFIFOEMAECmRej13 | n/a | 3 | 4 | V | | | | |
| K1463 | CFIFOEMAECmRej12 | n/a | 3 | 4 | V | | | | |
| K1464 | CFIFOEMAECmRej11 | n/a | 3 | 4 | V | | | | |
| K1465 | CFIFOEMAECmRej10 | n/a | 3 | 4 | V | | | | |

EMCS TM PARAMETERS

| PREF | NAME | UNIT | PTC | PFC | F/V | DEFAULT | MINIMUM | MAXIMUM | CURVE/ALIAS |
|-------|------------------|------|-----|-----|-----|---------|---------|---------|-------------|
| K1466 | CFIFOEMAECmRej9 | n/a | 3 | 4 | V | | | | |
| K1467 | CFIFOEMAECmRej8 | n/a | 3 | 4 | V | | | | |
| K1468 | CFIFOEMAECmRej7 | n/a | 3 | 4 | V | | | | |
| K1469 | CFIFOEMAECmRej6 | n/a | 3 | 4 | V | | | | |
| K1470 | CFIFOEMAECmRej5 | n/a | 3 | 4 | V | | | | |
| K1471 | CFIFOEMAECmRej4 | n/a | 3 | 4 | V | | | | |
| K1472 | CFIFOEMAECmRej3 | n/a | 3 | 4 | V | | | | |
| K1473 | CFIFOEMAECmRej2 | n/a | 3 | 4 | V | | | | |
| K1474 | CFIFOEMAECmRej1 | n/a | 3 | 4 | V | | | | |
| K1475 | C BootS/Wversion | n/a | 3 | 4 | V | | | | |
| K1476 | C RAM SW version | n/a | 3 | 4 | V | | | | |
| K1477 | C PW ON Test RAM | n/a | 2 | 1 | V | | | | 4024 |
| K1478 | CPWONTestROMBoot | n/a | 2 | 1 | V | | | | 4024 |
| K1479 | CPWONTestROMProg | n/a | 2 | 1 | V | | | | 4024 |
| K1480 | CPWONTestRAMProg | n/a | 2 | 1 | V | | | | 4024 |
| K1481 | C Group 1 EITF | n/a | 2 | 1 | V | | | | 4031 |
| K1482 | C Operating Mode | n/a | 2 | 4 | V | | | | 4025 |
| K1483 | TC SequenceCount | n/a | 3 | 12 | V | | | | |
| K1484 | EMDH Task Ident. | n/a | 3 | 12 | V | | | | |
| K1486 | HBR Identifier | n/a | 3 | 12 | V | | | | |
| K1487 | HBR7 Bright P.N. | n/a | 3 | 12 | V | | | | |
| K1488 | HBR8 Bright P.N. | n/a | 3 | 12 | V | | | | |
| K1489 | HBR 1 Active | n/a | 2 | 1 | V | | | | 4003 |
| K1490 | HBR 2 Active | n/a | 2 | 1 | V | | | | 4003 |
| K1491 | HBR 3 Active | n/a | 2 | 1 | V | | | | 4003 |
| K1492 | HBR 4 Active | n/a | 2 | 1 | V | | | | 4003 |
| K1493 | HBR 5 Active | n/a | 2 | 1 | V | | | | 4003 |
| K1494 | HBR 6 Active | n/a | 2 | 1 | V | | | | 4003 |
| K1495 | HBR 7 Active | n/a | 2 | 1 | V | | | | 4003 |
| K1496 | HBR 8 Active | n/a | 2 | 1 | V | | | | 4003 |
| K1497 | HBR 1 Processing | n/a | 2 | 0 | V | | | | 4018 |
| K1498 | HBR 2 Processing | n/a | 2 | 0 | V | | | | 4018 |
| K1499 | HBR 3 Processing | n/a | 2 | 0 | V | | | | 4018 |
| K1500 | HBR 4 Processing | n/a | 2 | 0 | V | | | | 4018 |
| K1501 | HBR 5 Processing | n/a | 2 | 0 | V | | | | 4018 |
| K1502 | HBR 6 Processing | n/a | 2 | 0 | V | | | | 4018 |
| K1503 | HBR 7 Processing | n/a | 2 | 0 | V | | | | 4018 |
| K1504 | HBR 8 Processing | n/a | 2 | 0 | V | | | | 4018 |
| K1505 | HBR1BufferStartA | n/a | 3 | 14 | V | | | | |
| K1506 | HBR1BufferEndAdd | n/a | 3 | 14 | V | | | | |
| K1507 | HBR2BufferStartA | n/a | 3 | 14 | V | | | | |
| K1508 | HBR2BufferEndAdd | n/a | 3 | 14 | V | | | | |
| K1509 | HBR3BufferStartA | n/a | 3 | 14 | V | | | | |
| K1510 | HBR3BufferEndAdd | n/a | 3 | 14 | V | | | | |
| K1511 | HBR4BufferStartA | n/a | 3 | 14 | V | | | | |
| K1512 | HBR4BufferEndAdd | n/a | 3 | 14 | V | | | | |
| K1513 | HBR5BufferStartA | n/a | 3 | 14 | V | | | | |
| K1514 | HBR5BufferEndAdd | n/a | 3 | 14 | V | | | | |
| K1515 | HBR6BufferStartA | n/a | 3 | 14 | V | | | | |
| K1516 | HBR6BufferEndAdd | n/a | 3 | 14 | V | | | | |
| K1517 | HBR7BufferStartA | n/a | 3 | 14 | V | | | | |
| K1518 | HBR7BufferEndAdd | n/a | 3 | 14 | V | | | | |
| K1519 | HBR8BufferStartA | n/a | 3 | 14 | V | | | | |
| K1520 | HBR8BufferEndAdd | n/a | 3 | 14 | V | | | | |
| K1521 | HBR1 Bright P.N. | n/a | 3 | 12 | V | | | | |
| K1522 | HBR1 Low Thresh | n/a | 3 | 12 | V | | | | |
| K1523 | HBR1 Upp Thresh | n/a | 3 | 12 | V | | | | |
| K1524 | HBR2 Low Thresh | n/a | 3 | 12 | V | | | | |
| K1525 | HBR2 Upp Thresh | n/a | 3 | 12 | V | | | | |
| K1526 | HBR3 Low Thresh | n/a | 3 | 12 | V | | | | |
| K1527 | HBR3 Upp Thresh | n/a | 3 | 12 | V | | | | |
| K1528 | HBR4 Low Thresh | n/a | 3 | 12 | V | | | | |
| K1529 | HBR4 Upp Thresh | n/a | 3 | 12 | V | | | | |
| K1530 | HBR5 Low Thresh | n/a | 3 | 12 | V | | | | |
| K1531 | HBR5 Upp Thresh | n/a | 3 | 12 | V | | | | |

EMCS TM PARAMETERS

| PREF | NAME | UNIT | PTC | PFC | F/V | DEFAULT | MINIMUM | MAXIMUM | CURVE/ALIAS |
|-------|------------------|------|-----|-----|-----|---------|---------|---------|-------------|
| K1532 | HBR6 Low Thresh | n/a | 3 | 12 | V | | | | |
| K1533 | HBR6 Upp Thresh | n/a | 3 | 12 | V | | | | |
| K1534 | HBR7 Low Thresh | n/a | 3 | 12 | V | | | | |
| K1535 | HBR7 Upp Thresh | n/a | 3 | 12 | V | | | | |
| K1536 | HBR8 Low Thresh | n/a | 3 | 12 | V | | | | |
| K1537 | HBR8 Upp Thresh | n/a | 3 | 12 | V | | | | |
| K1538 | FastPatternThres | n/a | 3 | 12 | V | | | | |
| K1539 | DeicinLowTempLim | degC | 3 | 4 | V | | | | 4024 |
| K1540 | DeicinUppTempLim | degC | 3 | 4 | V | | | | 4024 |
| K1541 | DeconLowTempLim | degC | 3 | 4 | V | | | | 4024 |
| K1542 | DeconUppTempLim | degC | 3 | 4 | V | | | | 4024 |
| K1543 | AnnealLowTempLim | degC | 3 | 4 | V | | | | 4024 |
| K1544 | AnnealUppTempLim | degC | 3 | 4 | V | | | | 4024 |
| K1545 | DeicinConfThCont | n/a | 2 | 0 | V | | | | 4005 |
| K1546 | DeicinConfShroud | n/a | 2 | 0 | V | | | | 4005 |
| K1547 | DeicinConfAnneal | n/a | 2 | 0 | V | | | | 4005 |
| K1548 | DecontConfThCont | n/a | 2 | 0 | V | | | | 4005 |
| K1549 | DecontConfShroud | n/a | 2 | 0 | V | | | | 4005 |
| K1550 | DecontConfAnneal | n/a | 2 | 0 | V | | | | 4005 |
| K1551 | AnnealConfThCont | n/a | 2 | 0 | V | | | | 4005 |
| K1552 | AnnealConfShroud | n/a | 2 | 0 | V | | | | 4005 |
| K1553 | AnnealConfAnneal | n/a | 2 | 0 | V | | | | 4005 |
| K1554 | UppMonTempLimits | degC | 3 | 4 | V | | | | 4027 |
| K1555 | LowMonTempLimits | degC | 3 | 4 | V | | | | 4027 |
| K1556 | HBR2 Bright P.N. | n/a | 3 | 12 | V | | | | |
| K1557 | HBR3 Bright P.N. | n/a | 3 | 12 | V | | | | |
| K1558 | HBR4 Bright P.N. | n/a | 3 | 12 | V | | | | |
| K1559 | HBR5 Bright P.N. | n/a | 3 | 12 | V | | | | |
| K1560 | HBR6 Bright P.N. | n/a | 3 | 12 | V | | | | |
| K1561 | IC Valid Events | n/a | 3 | 12 | V | | | | |
| K1562 | ICRejEventsLowTh | n/a | 3 | 12 | V | | | | |
| K1563 | ICRejEventsUppTh | n/a | 3 | 12 | V | | | | |
| K1564 | ICRejectedFrames | n/a | 3 | 12 | V | | | | |
| K1565 | ICountModeStartT | n/a | 9 | 5 | V | | | | |
| K1566 | ICountModeStopT | n/a | 9 | 5 | V | | | | |
| K1567 | TC Valid Events | n/a | 3 | 12 | V | | | | |
| K1568 | TCRejEventsLowTh | n/a | 3 | 12 | V | | | | |
| K1569 | TCRejEventsUppTh | n/a | 3 | 12 | V | | | | |
| K1570 | TCRejectedFrames | n/a | 3 | 12 | V | | | | |
| K1571 | TCountModeStartT | n/a | 9 | 5 | V | | | | |
| K1572 | TCountModeStopT | n/a | 9 | 5 | V | | | | |
| K1573 | C Cou OBT Res Ti | sec | 9 | 5 | V | | | | |
| K1574 | D Cmode Start Ti | sec | 9 | 5 | V | | | | |
| K1575 | D Cmode Stop Tim | sec | 9 | 5 | V | | | | |
| K1586 | AAnCh1/2DataBySe | n/a | 2 | 1 | V | | | | 4030 |
| K1587 | AAnCh3/4DataBySe | n/a | 2 | 1 | V | | | | 4030 |
| K1588 | AAnCh5/6DataBySe | n/a | 2 | 1 | V | | | | 4030 |
| K1589 | AAnCh7/8DataBySe | n/a | 2 | 1 | V | | | | 4030 |
| K1590 | A SeqFW DataBySe | n/a | 2 | 1 | V | | | | 4030 |
| K1592 | C AnCh3/4 SeqRam | n/a | 2 | 1 | V | | | | 4020 |
| K1593 | CAnCh3/4InbCtrlC | n/a | 2 | 1 | V | | | | 4005 |
| K1594 | CAnCh3/4InbCtrlB | n/a | 2 | 1 | V | | | | 4005 |
| K1595 | CAnCh3/4InbCtrlA | n/a | 2 | 1 | V | | | | 4005 |
| K1596 | CAnCh3/4IntSimul | n/a | 2 | 3 | V | | | | 4021 |
| K1599 | C AnCh1/2 SeqRam | n/a | 2 | 1 | V | | | | 4020 |
| K1600 | CAnCh1/2InbCtrlC | n/a | 2 | 1 | V | | | | 4005 |
| K1601 | CAnCh1/2InbCtrlB | n/a | 2 | 1 | V | | | | 4005 |
| K1602 | CAnCh1/2InbCtrlA | n/a | 2 | 1 | V | | | | 4005 |
| K1603 | CAnCh1/2IntSimul | n/a | 2 | 3 | V | | | | 4021 |
| K1606 | C AnCh7/8 SeqRam | n/a | 2 | 1 | V | | | | 4020 |
| K1607 | CAnCh7/8InbCtrlC | n/a | 2 | 1 | V | | | | 4005 |
| K1608 | CAnCh7/8InbCtrlB | n/a | 2 | 1 | V | | | | 4005 |
| K1609 | CAnCh7/8InbCtrlA | n/a | 2 | 1 | V | | | | 4005 |
| K1610 | CAnCh7/8IntSimul | n/a | 2 | 3 | V | | | | 4021 |
| K1613 | C AnCh5/6 SeqRam | n/a | 2 | 1 | V | | | | 4020 |

EMCS TM PARAMETERS

| PREF | NAME | UNIT | PTC | PFC | F/V | DEFAULT | MINIMUM | MAXIMUM | CURVE/ALIAS |
|-------|-------------------|------|-----|-----|-----|---------|---------|---------|-------------|
| K1614 | CAnCh5/6InbCtrlC | n/a | 2 | 1 | V | | | | 4005 |
| K1615 | CAnCh5/6InbCtrlB | n/a | 2 | 1 | V | | | | 4005 |
| K1616 | CAnCh5/6InbCtrlA | n/a | 2 | 1 | V | | | | 4005 |
| K1617 | CAnCh5/6IntSimul | n/a | 2 | 3 | V | | | | 4021 |
| K1624 | CFWExAbsPosition | n/a | 2 | 3 | V | | | | 4012 |
| K1625 | CFWExpRedStopSen | n/a | 2 | 1 | V | | | | 4013 |
| K1626 | C Group 2 EITF | n/a | 2 | 1 | V | | | | 4031 |
| K1627 | C Group 3 EITF | n/a | 2 | 1 | V | | | | 4031 |
| K1628 | C Group 4 EITF | n/a | 2 | 1 | V | | | | 4031 |
| K1633 | FirstLBRfailure | n/a | 2 | 0 | V | | | | 4033 |
| K1634 | SecondLBRfailure | n/a | 2 | 0 | V | | | | 4033 |
| K1635 | ThirdLBRfailure | n/a | 2 | 0 | V | | | | 4033 |
| K1636 | FourthLBRfailure | n/a | 2 | 0 | V | | | | 4033 |
| K1637 | LBRProtocolError | n/a | 2 | 8 | V | | | | 4038 |
| K1638 | Refusal Reason | n/a | 2 | 0 | V | | | | 4039 |
| K1639 | LoadInitprocIdle | n/a | 2 | 0 | V | | | | 4040 |
| K1640 | UnloadInitprIdle | n/a | 2 | 0 | V | | | | 4040 |
| K1641 | LoadExitPrimeFas | n/a | 2 | 0 | V | | | | 4040 |
| K1642 | UnloadExPrimeFas | n/a | 2 | 0 | V | | | | 4040 |
| K1643 | UnloadPrimeFasPr | n/a | 2 | 0 | V | | | | 4040 |
| K1644 | UnloadUpdateHKpr | n/a | 2 | 0 | V | | | | 4040 |
| K1645 | Cmd Stop OBS | n/a | 2 | 0 | V | | | | 4040 |
| K1646 | LoadExitDiagProc | n/a | 2 | 0 | V | | | | 4040 |
| K1647 | UnloadExitDiagPr | n/a | 2 | 0 | V | | | | 4040 |
| K1648 | UnloadDiagProc | n/a | 2 | 0 | V | | | | 4040 |
| K1649 | LoadExitOVproces | n/a | 2 | 0 | V | | | | 4040 |
| K1650 | UnloadExitOVproc | n/a | 2 | 0 | V | | | | 4040 |
| K1651 | Unload OV proces | n/a | 2 | 0 | V | | | | 4040 |
| K1652 | LoadExitExtrhPro | n/a | 2 | 0 | V | | | | 4040 |
| K1653 | UnloadExitExtrah | n/a | 2 | 0 | V | | | | 4040 |
| K1654 | CmdSetEMCRTemCt | n/a | 2 | 0 | V | | | | 4041 |
| K1655 | CmdSetEMAEctrlOn | n/a | 2 | 0 | V | | | | 4040 |
| K1656 | LoadExitIfftProc | n/a | 2 | 0 | V | | | | 4040 |
| K1657 | UnloadExitIfftPro | n/a | 2 | 0 | V | | | | 4040 |
| K1658 | IFT Submode | n/a | 2 | 0 | V | | | | 4042 |
| K1659 | LoadInitProcSafe | n/a | 2 | 0 | V | | | | 4040 |
| K1660 | UnloadInitPrSafe | n/a | 2 | 0 | V | | | | 4040 |
| K1661 | CmdSetFPmainCtrl | n/a | 2 | 0 | V | | | | 4040 |
| K1662 | FWpositionClosed | n/a | 2 | 0 | V | | | | 4045 |
| K1663 | UnlockSafeEmerge | n/a | 2 | 0 | V | | | | 4040 |
| K1664 | LockSafeEmergenc | n/a | 2 | 0 | V | | | | 4040 |
| K1665 | OutcomingSWmode | n/a | 3 | 12 | V | | | | 1000 |
| K1666 | EMDHSWinSafeMode | n/a | 2 | 0 | V | | | | 4043 |
| K1667 | Transition Abort | n/a | 2 | 0 | V | | | | 4041 |
| K1668 | UnloadScientProc | n/a | 2 | 0 | V | | | | 4040 |
| K1669 | UnloadUpdateHKpr | n/a | 2 | 0 | V | | | | 4040 |
| K1670 | LoadInitprPriFas | n/a | 2 | 0 | V | | | | 4040 |
| K1671 | UnloadInitPriFas | n/a | 2 | 0 | V | | | | 4040 |
| K1672 | LoadPrimeFastPro | n/a | 2 | 0 | V | | | | 4040 |
| K1673 | LoadUpdateHKcoun | n/a | 2 | 0 | V | | | | 4040 |
| K1674 | Cmd Start OBS | n/a | 2 | 0 | V | | | | 4040 |
| K1675 | LoadDiagProcess | n/a | 2 | 0 | V | | | | 4040 |
| K1676 | ExpectedPixelNum | n/a | 2 | 0 | V | | | | 4040 |
| K1677 | HBR Config Error | n/a | 2 | 0 | V | | | | 4040 |
| K1678 | ReturnToIdleErro | n/a | 2 | 0 | V | | | | 4043 |
| K1679 | LoadInitDiagProc | n/a | 2 | 0 | V | | | | 4040 |
| K1680 | UnloadIniDiagPro | n/a | 2 | 0 | V | | | | 4040 |
| K1681 | LoadOffVVarProces | n/a | 2 | 0 | V | | | | 4040 |
| K1682 | LoadInitprocOfVa | n/a | 2 | 0 | V | | | | 4040 |
| K1683 | UnloadInitprocOV | n/a | 2 | 0 | V | | | | 4040 |
| K1684 | Door Open Status | n/a | 2 | 0 | V | | | | 4044 |
| K1685 | CCDs in off | n/a | 2 | 0 | V | | | | 4044 |
| K1686 | FPTempBelowSafTh | n/a | 2 | 0 | V | | | | 4043 |
| K1687 | CmdEMAE Ctrl Off | n/a | 2 | 0 | V | | | | 4041 |
| K1688 | CmdStartEMCRtemp | n/a | 2 | 0 | V | | | | 4041 |

EMCS TM PARAMETERS

EPIC-EST-TN-008 I.2

Appendix B

| PREF | NAME | UNIT | PTC | PFC | F/V | DEFAULT | MINIMUM | MAXIMUM | CURVE/ALIAS |
|-------|------------------|------|-----|-----|-----|---------|---------|---------|-------------|
| K1689 | FW position Open | n/a | 2 | 0 | V | | | | 4046 |
| K1690 | LoadInitprExtrah | n/a | 2 | 0 | V | | | | 4040 |
| K1691 | UnloadInitprExtr | n/a | 2 | 0 | V | | | | 4040 |
| K1692 | LoadInitprocIFT | n/a | 2 | 0 | V | | | | 4040 |
| K1693 | UnloadInitprIFT | n/a | 2 | 0 | V | | | | 4040 |
| K1694 | MasInReEDACcheck | n/a | 2 | 1 | V | | | | 4040 |
| K1695 | MasterInitRepBIT | n/a | 2 | 1 | V | | | | 4040 |
| K1696 | MasInRepSPROMCRC | n/a | 3 | 12 | V | | | | 1000 |
| K1697 | MasIniRepPROCrc | n/a | 3 | 12 | V | | | | 1000 |
| K1698 | MasIniRepRAMrslt | n/a | 2 | 0 | V | | | | 4040 |
| K1699 | MasInReFaultPGnm | n/a | 3 | 12 | V | | | | 1000 |
| K1700 | MasInReFaultPGof | n/a | 3 | 12 | V | | | | 1000 |
| K1701 | MasInitRepRAMcrc | n/a | 3 | 12 | V | | | | 1000 |
| K1702 | SciInReEDACcheck | n/a | 2 | 1 | V | | | | 4040 |
| K1703 | SciInitReportBIT | n/a | 2 | 1 | V | | | | 4040 |
| K1704 | SciInitRepSPROM | n/a | 3 | 12 | V | | | | 4040 |
| K1705 | SciInitRepRAMcrc | n/a | 3 | 12 | V | | | | 1000 |
| K1706 | LoadResidPerProc | n/a | 2 | 0 | V | | | | 4040 |
| K1707 | ThermControlFlag | n/a | 2 | 0 | V | | | | 4040 |
| K1708 | UnloadInitprlssb | n/a | 2 | 0 | V | | | | 4040 |
| K1709 | AutomTransReason | n/a | 2 | 0 | V | | | | 4047 |
| K1710 | EMCR HK DataFlag | n/a | 2 | 0 | V | | | | 4040 |
| K1711 | SwitchIdentifier | n/a | 2 | 0 | V | | | | 4048 |
| K1712 | AnnealSwitchStat | n/a | 2 | 8 | V | | | | 4027 |
| K1713 | SecondShroudStat | n/a | 2 | 8 | V | | | | 4027 |