

LOGIC BINARY LEGEND

SYMBOL	DESCRIPTION
AS	ALARM SILENCE
ASLD	ALL SPAN LOCKS DRIVEN
ASLP	ALL SPAN LOCKS PULLED
BBP	BARRIERS BYPASS
BHRS	BRAKES HAND RELEASED SHUTDOWN
BM	BUS MONITOR
BRP	BRIDGE RUN PERMISSIVE
BT	BRAKE TEST
CMA	CONTROL MODE AUTOMATIC
CMM	CONTROL MODE MANUAL
CP	CONTROL POWER
DF	DECELERATION FAILURE
EBL	EAST BARRIER LOWERED
EBR	EAST BARRIER RAISED
EGL	EAST GATE LOWERED
EGR	EAST GATE RAISED
ES	EMERGENCY STOP
ETL	EAST TOWER LEVELING
ETS	EXCESS TIME SHUTDOWN
ETSYTMR	EAST TRAFFIC SIGNALS YELLOW TIMER
FO	FULLY OPEN
FOBP	FULLY OPEN BYPASS
FR	FAULT RESET
FS	FULLY SEATED
FSBP	FULLY SEATED BYPASS
FSTMR1	FULLT SEATED TIMER 1
FSTMR2	FULLT SEATED TIMER 2
GBP	GATES BYPASS
IL	INDICATOR LIGHTS
JS	JOG SPEED
LDBP	LOCKS DRIVEN BYPASS
LPBP	LOCKS PULLED BYPASS
LT	LAMP TEST
MAF	MAJOR FAULT
MDF	MAIN DRIVE FAULT
MDTMR	MAIN DRIVE TIMER
MIF	MINOR FAULT
ML	MASTER LOWER
MR	MASTER RAISE
NC1	NEAR CLOSED 1
NC2	NEAR CLOSED 2
NO1	NEAR OPEN 1
NO2	NEAR OPEN 2
NS	NORMAL STOP
OS	OVERSPEED
OT	OVERTRAVEL
PCF	PLC COMMUNICATION FAULT
REB	RELEASE EAST BRAKES
RF	RESOLVER FAULT
RS	RUN SPEED
RWB	RELEASE WEST BRAKES
SCCO	SKEW CONTROL CUT-OUT
SKS	SKEW SHUTDOWN
SKW	SKEW WARNING
SS	SEATING SPEED
UPSW	UPS WARNING
WBL	WEST BARRIER LOWERED
WBR	WEST BARRIER RAISED
WGL	WEST GATE LOWERED
WGR	WEST GATE RAISED
WTL	WEST TOWER LEVELING
WTSYTMR	WEST TRAFFIC SIGNALS YELLOW TIMER

LOGIC TIMER LEGEND

SYMBOL	DESCRIPTION	ADDRESS
TMR-ETS	EXCESS TIME SHUTDOWN	T202
TMR-ETSY	EAST TRAFFIC SIGNALS YELLOW	T100
TMR-FS1	FULLY SEATED 1	T205
TMR-FS2	FULLY SEATED 2	T206
TMR-MD	MAIN DRIVE	T209
TMR-ML	MASTER LOWER	T204
TMR-MR	MASTER RAISE	T203
TMR-WTSY	WEST TRAFFIC SIGNALS YELLOW	T103

LOGIC OUTPUT LEGEND

SYMBOL	DESCRIPTION	ADDRESS
AL	ALARM	0:324
CR-EGN	EAST GONG	0:316
CR-ETSR	EAST TRAFFIC SIGNALS RED	0:303
CR-ETSY	EAST TRAFFIC SIGNALS YELLOW	0:301
CR-HCO	HEATER CUT-OUT	0:414
CR-SH	SIGNAL HORN	0:392
CR-WGN	WEST GONG	0:317
CR-WTSR	WEST TRAFFIC SIGNALS RED	0:306
CR-WTSY	WEST TRAFFIC SIGNALS YELLOW	0:305
IL-15A	15KW GENERATOR POWER AVAILABLE	0:425
IL-15GP	15KW GENERATOR POWER SUPPLYING LOAD	0:426
IL-15NP	15KW GENERATOR NORMAL POWER SUPPLYING LOAD	0:424
IL-300A	300KW GENERATOR POWER AVAILABLE	0:365
IL-300GP	300KW GENERATOR POWER SUPPLYING LOAD	0:366
IL-300NP	300KW GENERATOR NORMAL POWER SUPPLYING LOAD	0:364
IL-BHRS	BRAKES HAND RELEASED SHUTDOWN	0:418
IL-BMF	BUS MONITOR FAULT	0:421
IL-BOL	BRAKES OVERLOAD	0:390
IL-BRP	BRIDGE RUN PERMISSIVE	0:415
IL-CP	CONTROL POWER	0:325
IL-DFOS	DECELERATION FAILURE/OVERSPEED	0:416
IL-EAXE	EAST AUXILIARY DRIVE CLUTCH ENGAGED	0:360
IL-EBL	EAST BARRIER LOWERED	0:377
IL-EBR	EAST BARRIER RAISED	0:378
IL-EGL	EAST GATE LOWERED	0:373
IL-EGR	EAST GATE RAISED	0:374
IL-ELD	EAST LOCK DRIVEN	0:331
IL-ELP	EAST LOCK PULLED	0:330
IL-ESK	EXCESS SKEW	0:356
IL-ET	EXCESS TIME	0:359
IL-ETSG	EAST TRAFFIC SIGNALS GREEN	0:371
IL-ETSR	EAST TRAFFIC SIGNALS RED	0:369
IL-ETSY	EAST TRAFFIC SIGNALS YELLOW	0:367
IL-FO	FULLY OPEN	0:326
IL-GBOL	GATES AND BARRIERS OVERLOAD	0:417
IL-LOL	LOCKS OVERLOAD	0:361
IL-MABE1HR	EAST MACHINERY BRAKE 1 HAND RELEASED	0:346
IL-MABE1R	EAST MACHINERY BRAKE 1 RELEASED	0:345
IL-MABE1S	EAST MACHINERY BRAKE 1 SET	0:344
IL-MABE2HR	EAST MACHINERY BRAKE 2 HAND RELEASED	0:352
IL-MABE2R	EAST MACHINERY BRAKE 2 RELEASED	0:351
IL-MABE2S	EAST MACHINERY BRAKE 2 SET	0:350
IL-MABW1HR	WEST MACHINERY BRAKE 1 HAND RELEASED	0:349
IL-MABW1R	WEST MACHINERY BRAKE 1 RELEASED	0:348
IL-MABW1S	WEST MACHINERY BRAKE 1 SET	0:347
IL-MABW2HR	WEST MACHINERY BRAKE 2 HAND RELEASED	0:355
IL-MABW2R	WEST MACHINERY BRAKE 2 RELEASED	0:354
IL-MABW2S	WEST MACHINERY BRAKE 2 SET	0:353
IL-MDF	MAIN DRIVE FAULT	0:358
IL-ML	MASTER LOWER	0:363
IL-MOBEHR	EAST MOTOR BRAKE HAND RELEASED	0:334
IL-MOBER	EAST MOTOR BRAKE RELEASED	0:333

IL-MOBES	EAST MOTOR BRAKE SET	0:332
IL-MOBWHR	WEST MOTOR BRAKE HAND RELEASED	0:337
IL-MOBWR	WEST MOTOR BRAKE RELEASED	0:336
IL-MOBWS	WEST MOTOR BRAKE SET	0:335
IL-MR	MASTER RAISE	0:362
IL-NC	NEAR CLOSED	0:343
IL-NES	NORTHEAST SEATED	0:357
IL-NO	NEAR OPEN	0:328
IL-NWS	NORTHWEST SEATED	0:385
IL-PCF	PLC COMMUNICATION FAULT	0:419
IL-RF	RESOLVER FAULT	0:420
IL-SES	SOUTHEAST SEATED	0:386
IL-SWS	SOUTHWEST SEATED	0:387
IL-WAXE	WEST AUXILIARY DRIVE CLUTCH ENGAGED	0:423
IL-WBL	WEST BARRIER LOWERED	0:379
IL-WBR	WEST BARRIER RAISED	0:380
IL-WGL	WEST GATE LOWERED	0:375
IL-WGR	WEST GATE RAISED	0:376
IL-WLD	WEST LOCK DRIVEN	0:389
IL-WLP	WEST LOCK PULLED	0:388
IL-WTSG	WEST TRAFFIC SIGNALS GREEN	0:372
IL-WTSR	WEST TRAFFIC SIGNALS RED	0:370
IL-WTSY	WEST TRAFFIC SIGNALS YELLOW	0:368
IR-DLK1	DRIVE EAST LOCK	0:302
IR-DLK2	DRIVE WEST LOCK	0:323
IR-LEB	LOWER EAST BARRIER	0:312
IR-LEG	LOWER EAST GATE	0:308
IR-LWB	LOWER WEST BARRIER	0:314
IR-LWG	LOWER WEST GATE	0:310
IR-MDE1	MAIN DRIVE E1	0:401
IR-MDE2	MAIN DRIVE E2	0:402
IR-MDL	MAIN DRIVE LOWER	0:406
IR-MDR	MAIN DRIVE RAISE	0:405
IR-MDW1	MAIN DRIVE W1	0:403
IR-MDW2	MAIN DRIVE W2	0:404
IR-PLK1	PULL EAST LOCK	0:300
IR-PLK2	PULL WEST LOCK	0:322
IR-REB	RAISE EAST BARRIER	0:313
IR-REG	RAISE EAST GATE	0:309
IR-RMABE1	RELEASE EAST MACHINERY BRAKE 1	0:326
IR-RMABE2	RELEASE EAST MACHINERY BRAKE 2	0:327
IR-RMABW1	RELEASE WEST MACHINERY BRAKE 1	0:339
IR-RMABW2	RELEASE WEST MACHINERY BRAKE 2	0:340
IR-RMOBE	RELEASE EAST MOTOR BRAKE	0:325
IR-RMOBW	RELEASE WEST MOTOR BRAKE	0:338
IR-RT	REDUCED TORQUE	0:407
IR-RWB	RAISE WEST BARRIER	0:315
IR-RWG	RAISE WEST GATE	0:311

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4-28-2005  
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STATE OF NORTH CAROLINA			
DEPARTMENT OF TRANSPORTATION			
RALEIGH			
CAPE FEAR RIVER CROSSING			
WILMINGTON, NORTH CAROLINA			
CONTROL CIRCUIT LEGEND - 2			
DRAWN BY		R.L. REED	
SCALE		NONE	
DESIGNED	G.L. FASICK	DETAILED	R.L. REED
CHECKED	N.E. ALGER	CHECKED	G.L. FASICK
DATE		APRIL, 2005	
DRAWING NO.		14 OF 53	