```
CONTEXT
Context_0
SETS
COLORS
CONSTANTS
RED
YELLOW
GREEN
AXIOMS
axm1 : partition(COLORS, {RED}, {YELLOW}, {GREEN})
```

END

```
MACHINE
  Machine θ
SEES
  Context θ
VARIABLES
  light1
  light2
INVARIANTS
  inv1 : light1 ∈ COLORS
 inv2 : light2 ∈ COLORS
inv3 : light1 ≠ GREEN v light2 ≠ GREEN
EVENTS
  extended
  STATUS
   ordinary
  BEGIN
   act1 : light1 ≔ RED
   act2 : light2 ≔ RED
  END
  STATUS
   ordinary
  WHEN
   grd1 : light1 = RED
  THEN
   act1 : light1 ≔ YELLOW
  END
  YellowToGreen1 ≜
  STATUS
   ordinary
  WHEN
   grd1 : light1 = YELLOW
   grd2 : light2 ≠ GREEN
  THEN
   act1 : light1 ≔ GREEN
```

END

```
GreenToRed1 ≜
STATUS
 ordinary
WHEN
grd1 : light1 = GREEN
THEN
 act1 : light1 ≔ RED
END
STATUS
 ordinary
WHEN
grd1 : light2 = RED
THEN
act1 : light2 ≔ YELLOW
END
YellowToGreen2 ≜
STATUS
 ordinary
WHEN
 grd1 : light2 = YELLOW
grd2 : light1 ≠ GREEN
THEN
 act1 : light2 ≔ GREEN
END
GreenToRed2 ≜
STATUS
 ordinary
WHEN
      : light2 = GREEN
 grd1
THEN
 act1 : light2 ≔ RED
END
```

- - ▼ G Context_0
 - Carrier Sets
 - Constants
 - Axioms
 - Proof Obligations
 - Machine_0
 - Variables
 - Invariants
 - * Events
 - Proof Obligations
 - **INITIALISATION/inv3/INV**
 - RedToYellow1/inv3/INV
 - YellowToGreen1/inv3/INV
 - GreenToRed1/inv3/INV
 - RedToYellow2/inv3/INV
 - YellowToGreen2/inv3/INV
 - GreenToRed2/inv3/INV

