begin model initialization function

set V\_in(1) to conv.sta2

set V\_in(2) to conv.sta3

set V\_in(3) to conv.sta4

set V\_in(4) to conv.sta5

set V\_out(1) to conv.sta6

set V\_out(2) to conv.sta7

set V\_out(3) to conv.sta8

set V\_out(4) to conv.sta9

return true

end

begin P\_in arriving procedure

move into conv.sta1

if load type = L\_a then

begin

set LA\_rate = 95

send to P\_check(1)

end

else if load type = L\_b then

begin

set LA\_rate = 96

send to P\_check(2)

end

else if load type = L\_c then

begin

set LA\_rate = 97

send to P\_check(3)

end

else

begin

set LA\_rate = 98

send to P\_check(4)

end

end

begin P\_check arriving procedure

travel to V\_in(procindex)

travel to V\_out(procindex)

use R\_check(procindex) for e 1 min

set V\_quality to oneof(LA\_rate:1,100-LA\_rate:2)

clone 1 load to P\_send(procindex) nlt L\_dummy

send to P\_out(procindex)

end

begin P\_out arriving procedure

if V\_quality = 2 then

begin

travel to conv.sta10

send to die

end

else

begin

move into Q\_out(procindex)

if OL\_out(procindex) current loads > 10 then

order 10 loads from OL\_out(procindex) to die

wait to be ordered on OL\_out(procindex)

end

end

begin P\_send arriving procedure

if OL\_out(procindex) current loads > 10 then

order 10 loads from OL\_out(procindex) to die

end