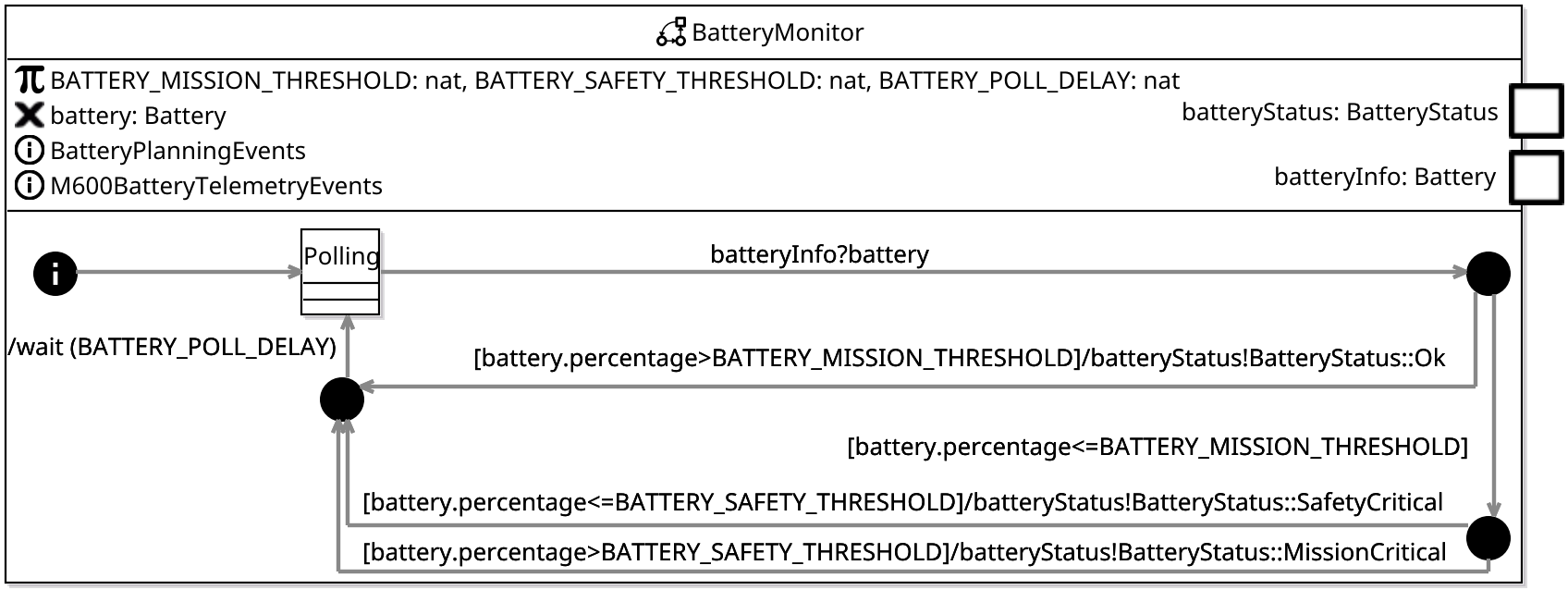
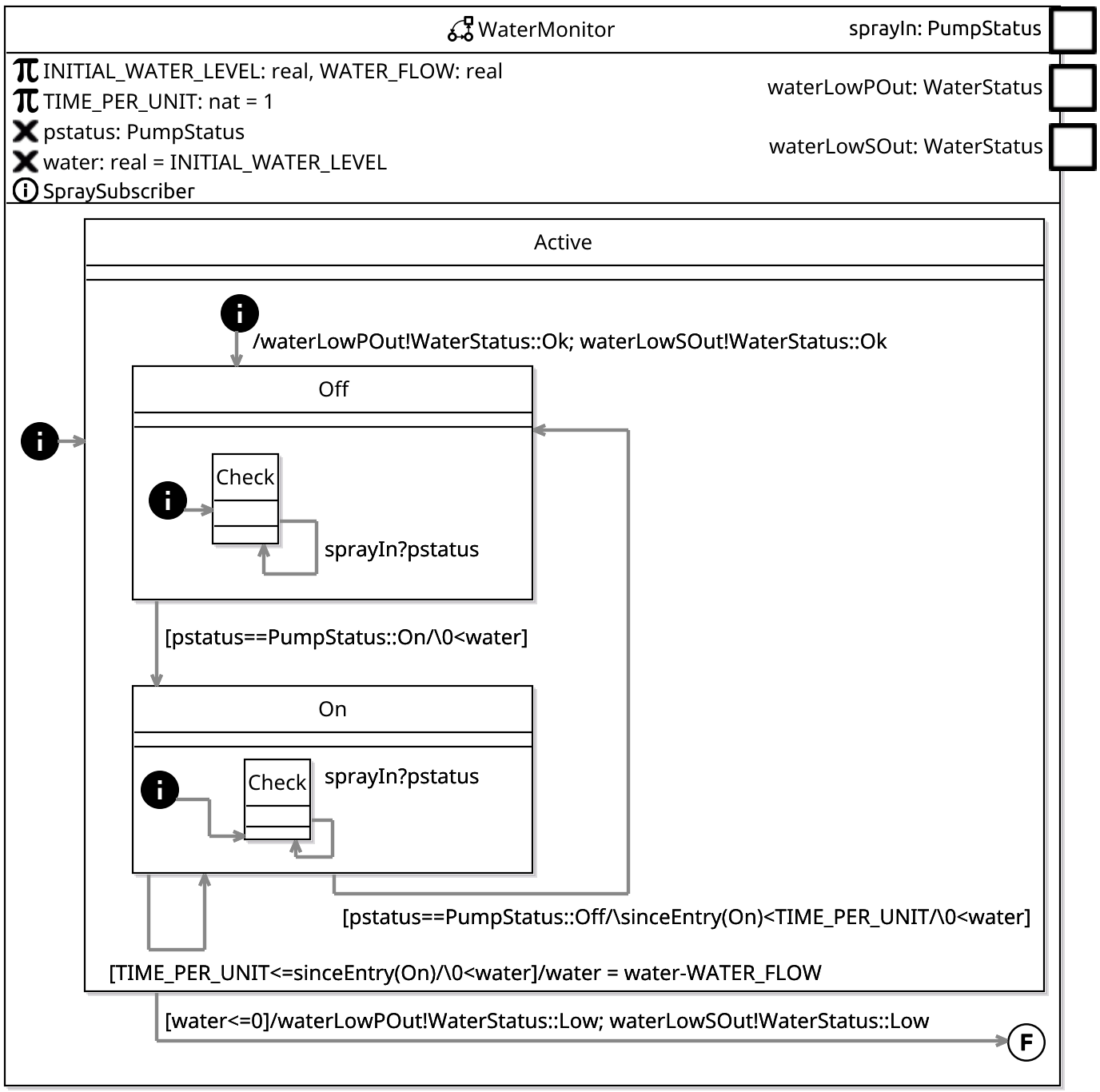

BatteryMonitor
BATTERY_MISSION_THRESHOLD: nat, BATTERY_SAFETY_THRESHOLD: nat, BATTERY_POLL_DELAY: nat
battery: Battery
BatteryPlanningEvents
M600BatteryTelemetryEvents
batteryStatus: BatteryStatus
batteryInfo: Battery
Polling
batteryInfo?battery
/wait (BATTERY_POLL_DELAY)
[battery.percentage>BATTERY_MISSION_THRESHOLD]/batteryStatus!BatteryStatus::Ok
[battery.percentage<=BATTERY_MISSION_THRESHOLD]
[battery.percentage<=BATTERY_SAFETY_THRESHOLD]/batteryStatus!BatteryStatus::SafetyCritical
[battery.percentage>BATTERY_SAFETY_THRESHOLD]/batteryStatus!BatteryStatus::MissionCritical


WaterMonitor
sprayIn: PumpStatus
INITIAL_WATER_LEVEL: real, WATER_FLOW: real
TIME_PER_UNIT: nat = 1
pstatus: PumpStatus
water: real = INITIAL_WATER_LEVEL
SpraySubscriber
waterLowPOut: WaterStatus
waterLowSOut: WaterStatus
Active
/waterLowPOut!WaterStatus::Ok; waterLowSOut!WaterStatus::Ok
Off
Check
sprayIn?pstatus
[pstatus==PumpStatus::On/\0<water]
On
Check
sprayIn?pstatus
[pstatus==PumpStatus::Off/\sinceEntry(On)<TIME_PER_UNIT/\0<water]
[TIME_PER_UNIT<=sinceEntry(On)/\0<water]/water = water-WATER_FLOW
[water<=0]/waterLowPOut!WaterStatus::Low; waterLowSOut!WaterStatus::Low
F