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1 CONTEXT
2   WaterTank_base_Ctx
3 EXTENDS
4   GenericCtx
5 CONSTANTS
6   Vmax
7   V0
8   delta_in
9   delta_out
10  Vlow
11  Vhigh
12  dv_min
13  dv_max
14 AXIOMS
15  axm10:  $Vmax \in RReal$ 
16  axm11:  $Rzero \mapsto Vmax \in lt$ 
17  axm20:  $V0 \in RReal$ 
18  axm21:  $Rzero \mapsto V0 \in lt$ 
19  axm12:  $V0 \mapsto Vmax \in lt$ 
20  axm30:  $delta\_in \in RReal$ 
21  axm31:  $Rzero \mapsto delta\_in \in lt$ 
22  axm32:  $delta\_out \in RReal$ 
23  axm33:  $Rzero \mapsto delta\_out \in lt$ 
24  axm34:  $delta\_out \mapsto delta\_in \in lt$ 
25  axm40:  $Vlow \in RReal$ 
26  axm41:  $Rzero \mapsto Vlow \in lt$ 
27  axm42:  $Vlow \mapsto Vmax \in lt$ 
28  axm43:  $Vhigh \in RReal$ 
29  axm44:  $Rzero \mapsto Vhigh \in lt$ 
30  axm45:  $Vhigh \mapsto Vmax \in lt$ 
31  axm46:  $Vlow \mapsto Vhigh \in lt$ 
32  axm47:  $Vlow \mapsto V0 \in leq$ 
33  axm48:  $V0 \mapsto Vhigh \in leq$ 
34  axm50:  $dv\_min \in RReal$ 
35  axm51:  $dv\_min \mapsto Rzero \in lt$ 
36  axm52:  $dv\_max \in RReal$ 
37  axm53:  $Rzero \mapsto dv\_max \in lt$ 
38  axm54:  $dv\_min \mapsto dv\_max \in lt$ 
39 END

```