## AerialWildfireSuppression Train & Test Metrics: Difficulty: 8, Task: 8 Entropy Water Drop Water Pickup **Preparing Trees Extinguishing Trees Reward Preparing Trees Reward** 0.05 -0.05 0.05 -0.05 0.05 source source source source source --- training training training training training Value Value Value Value Value 0.00 0.00 0.00 0.00 0.00 test — test test — test — test test -0.05 -0.05-0.05-0.05-0.051.5 1.5 1.0 1.5 0.0 1.5 0.5 0.5 1.5 0.5 1.5 0.5 1.0 0.0 1.0 0.0 1.0 0.0 0.5 1.0 0.0 0.5 0.0 1.0 1e6 1e6 1e6 1e6 1e6 1e6 Step Step Step Step Step Step **Extinguishing Trees** Fire too Close to City Fire Out Crash Count Extrinsic Value Estimate Episode Length 0.05 0.05 0.05 25 source source source source training training training training 0.00 source 0.00 0.00 test test test training training test test -0.05-0.05 --0.05 0.0 -0.5 1.0 1.5 0.0 1.5 0.5 1.5 0.0 1.5 0.0 0.5 1.0 1.5 0.0 1.5 0.0 0.5 1.0 Step 1e6 Step 1e6 Step 1e6 Step 1e6 Step 1e6 Step 1e6 Cumulative Reward Extrinsic Reward Policy Loss Learning Rate Epsilon Value Loss 0.20 100 100 source source 2000.0 Alue training training Value 0.04 · Nalue - 0.15 source 500 test test - training training test test -100 -100 0.0000 0.02 0.5 1.5 0.0 0.5 0.0 0.5 1.5 0.0 0.5 1.0 1.5 0.5 1.0 1.5 0.0 1.0 1.0 0.0 0.5 1.5 0.0 1e6 1e6 1e6 1e6 1e6 Step Step Step Step Step 1e6 Step Beta source 0.004 training 8 0.002 · test 0.000 0.5 1.0 1.5 0.0

Step

1e6