## AerialWildfireSuppression Train & Test Metrics: Difficulty: 6, Task: 7 Entropy Water Drop Water Pickup **Preparing Trees Extinguishing Trees Reward Preparing Trees Reward** 0.05 -0.05 0.05 source source source source source 2.00 Agie 7 1.75 — training training training --- training training Value Value Value Value 0.00 0.00 0.00 0.00 test — test test — test — test -0.05 -0.05-0.05-0.051.5 1.5 1.0 1.5 0.0 0.5 0.5 1.5 0.5 1.5 0.5 1.0 1.5 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 Episode Length Extrinsic Value Estimate 0.05 0.05 0.05 source source source source source source 100 training training training training training 0.00 0.00 test test test -0.05 --0.05 -0.051.0 1.5 0.0 1.5 0.5 1.5 0.0 1.5 0.0 1.0 1.5 0.0 0.5 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 Value Loss Learning Rate **Epsilon** 0.20 source source source 0.06 100 100 \alpha \cdot training training Value Value Nalue - 0.15 source 0.05 test - training test test 0.04 -100 -1000.0000 0.5 1.0 1.5 0.0 0.5 1.5 0.0 0.5 1.0 1.5 0.5 1.0 1.5 0.0 1.0 0.5 1.5 0.0 1e6 1e6 1e6 1e6 Step Step Step Step Step 1e6 1e6 Step Beta source 0.004 training 8 0.002 · test 0.000 1.0 0.5 1.5 0.0

Step

1e6