



```

sequence "Ramping Preparation" Prep () {
  R "Set slow factor" AdoSet -name wfgman.rhic -property slowFactorS -value 2
  R "Download Ramp to WFG's" Ramp::Download
  R "Init RF Radial Steering" RF::InitRadial
  R "Start WFG's & MADC's 240 second buffers" Trigger -event ev-psrampsave-off
  R "Booster Off" Booster::Off
}
sequence "Start the Acceleration Ramp" Up () {
  R "Instrumentation - AccRamp setup" InstrumSetup::AccRamp
  R "Checking RF Feedback" RF::CheckFeedback
  R "Trigger Blue rf track event" Trigger -event ev-brftrack
  R "Trigger Yellow rf track event" Trigger -event ev-yrftrack
  R "Enable accramp" EnableEvent -event ev-accramp
  R "Trigger pre-acc event" Trigger -event ev-preacc
  R "Delay/Synch with 0.25hz?" Delay -msec 4000
  R "Setup the ev-stone events" SetupStoneTrigger
  R "Trigger accramp" Trigger -event ev-accramp
  R "Disable accramp" DisableEvent -event ev-accramp
  S "Disable Blue Synchro" DisableEvent -event ev-breset-synchro
  S "Disable Yellow Synchro" DisableEvent -event ev-yreset-synchro
  R "set Blue ring spec" AdoSet -name ringSpec.blue -property ringStateS -value "ramping up"
  R "set Yellow ring spec" AdoSet -name ringSpec.yellow -property ringStateS -value "ramping up"
  R "waitfor LastStone" Waitfor -what LastStone
  R "Trigger FlatTop event" Trigger -event ev-flattop
  R "Delay a bit" Delay -msec 5000
  R "Freeze the MADC/WFG 30Hz buffers" Trigger -event ev-psrampsave
  R "Booster on" Booster::On
  R "set Blue ring spec" AdoSet -name ringSpec.blue -property ringStateS -value store
  R "set Yellow ring spec" AdoSet -name ringSpec.yellow -property ringStateS -value store
  R "Switch ev-stone trigger off" AdoSet -name rtdlEvents.stone -property controlS -value Off
  R "Instrumentation - FlatTop setup" InstrumSetup::FlatTop
  R "Check for PS Ramp Errors During Ramp" Ramp::CheckPSAfterRamp
}
sequence "Instrum AccRamp Setup" AccRamp () {
  R "SnapshotEv - PeriodicStartOnAccRamp" SnapshotEvent::PeriodicStartOnAccRamp
  S "SnapshotEv - 4Sec" SnapshotEvent::4Sec
  S "SnapshotEv - Stepstone" SnapshotEvent::Stepstone
  S "SnapshotEv - Transition" SnapshotEvent::Transition
  R "Disable WCM presnapshot script" DisableEvent -event scriptTrigger.16
  R "Disable WCM snapshot script" DisableEvent -event scriptTrigger.17
  R "WCM - 5 min log" WCM::Logging -state on -seconds 300
  S "WCM - FillPatt" WCM::FillPatt
  R "WCM - Transition" WCM::Transition
  R "Artus - SnapshotStoreAll" Artus::SnapshotStoreAll
  S "Artus - StepstoneStoreAll" Artus::StepstoneStoreAll
  S "Artus - 4SecStoreAll" Artus::4SecStoreAll
  R "IPM - HVPS Auto Disable" IPM::HVPSAutoDisable
  R "IPM - HVPS On" IPM::HVPSOn
  R "IPM - SnapshotStoreAll" IPM::SnapshotStoreAll
  S "IPM - StepstoneStoreAll" IPM::StepstoneStoreAll
  S "IPM - TransitionStoreAll" IPM::TransitionStoreAll
  S "IPM - 4SecStoreAll" IPM::4SecStoreAll
  R "BPMavgOrb - SnapshotStoreAll" BPM::aveOrbit::SnapshotStoreAll
  S "BPMavgOrb - StepstoneStoreAll" BPM::aveOrbit::StepstoneStoreAll
  R "BLM - SnapshotStoreAll" BLM::SnapshotStoreAll
  S "BLM - TransitionStoreAll" BLM::TransitionStoreAll
  S "BLM - ResetSum" AdoSet -name blmRing.all -property resetSumA -value 0
  R "BLM - ResetSum1 at Transition" BLM::ResetSum1AtTransition
}

```

Figure 2: Sequencer Input Language

