Stellar Calibration Plan

Day 1

* Door Closed DARK. 120 s and 240 s 4k images + 30 s and 60 s 2k images. 5 images each. 20 mins.
* Door Closed Bias and LED PRNU sequence.
* CENTER pointing: Star at Field Center.
* Door Open. Full Frame- To check star position in FOV. 10 mins- 30 images. NB07 filter.
* STELLAR code- All Filters: 12 hrs total. RoI 320x320 px.

Day 2

* VELC pointing: Star at VELC aligned position.
* STELLAR code- All Filters: 12 hrs total. RoI 320x320 px.
* *POC: Verify Star position in Full Frame images from Day 1 data.*
* *POC: Check PSF from Day 1 Data. Compare with Ground Observation.*
  + *Focus shift to be done if difference is seen between ground and on-board observation.*
  + *Day 4-7 can be skipped if focus change is not needed.*

Day 3

* Star Position 3.
* STELLAR code- All Filters: 12 hrs total. RoI 320x320 px.
* *POC: Focus Plan to be communicated to mission for VELC and CENTER positions. (this is to be done in advance)*

Day 4

* Star Position 4.
* STELLAR code- All Filters: 12 hrs total. RoI 320x320 px.
* *POC: Focus Plan to be communicated to mission for VELC and CENTER positions. (this is to be done in advance)*

Day 5

* VELC pointing: Star at VELC aligned position.
* Execute Focus Plan (Power ON, Encoder On, Main Pull Puller ON, Activate main arm pin puller, Enable Piezo Fail Logic, Piezo Homing ON, OFF, Load Encoder value,.......) - 60 mins.
* FOCUS code-NB03, NB07, BB03: RoI 320x320 px.
* Coarse focus steps. + - 2 mm. 500 micron steps. 9 positions (-2..^..-1..^..0..^..1..^..2).
  + 6 min (NB03) + 3 min (NB07) + 3 min (BB03) at each FCLA position. Duration: ~ 4 hr.
* CENTER pointing: Star at Field Center.
* FOCUS code-NB03, NB07, BB03: RoI 320x320 px.
* Coarse focus steps. + - 2 mm. 500 micron steps. 9 positions (-2..^..-1..^..0..^..1..^..2).
  + 6 min (NB03) + 3 min (NB07) + 3 min (BB03) at each FCLA position. Duration: ~ 4 hr.

Day 5

* Observation Break
* *POC: Find best focus position for fine movement of FCLA.*
* *POC: Communicate optimal coarse FCLA position to Misison around which 8 fine positions to be tried.*

Day 6

* VELC pointing: Star at VELC aligned position.
* FOCUS code-NB03, NB07, BB03: RoI 320x320 px.
* Fine focus steps. 9 positions. Step size and position TBD.
  + 6 min (NB03) + 3 min (NB07) + 3 min (BB03) at each FCLA position. Duration: ~ 4 hr.
* CENTER pointing: Star at Field Center.
* FOCUS code-NB03, NB07, BB03: RoI 320x320 px.
* Fine focus steps. 9 positions. Step size and position TBD.
  + 6 min (NB03) + 3 min (NB07) + 3 min (BB03) at each FCLA position. Duration: ~ 4 hr.

Day 7

* *POC: Find best focus position for fine movement of FCLA.*
* VELC pointing: Star at VELC aligned position.
* STELLAR code- All Filters: 12 hrs total. RoI 320x320 px.
  + At best Coarse Focus position.

Day 8

* VELC pointing: Star at VELC aligned position.
* Set best fine focus position for VELC pointing.
* STELLAR code- All Filters: 12 hrs total. RoI 320x320 px.

Day 9

* CENTER pointing: Star at SUIT CCD center aligned position.
* Set best fine focus position for CENTER pointing.
* STELLAR code- All Filters: 12 hrs total. RoI 320x320 px.

Day 10 - 18

* STELLAR code- All Filters: 12 hrs total. RoI 320x320 px.
* Ensure best fine focus position for CENTER pointing.
* Star Position 4 -12.

Day 19-20

* Fall back observations if necessary.

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