



## 14514 - ACS Post flash calibration

Cycle: 24, Proposal Category: CAL/ACS

(Availability Mode: RESTRICTED)

### INVESTIGATORS

| <i>Name</i>                             | <i>Institution</i>                       | <i>E-Mail</i>                 |
|---|--|-------------------------------|
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### VISITS

| <i>Visit</i> | <i>Targets used in Visit</i> | <i>Configurations used in Visit</i> | <i>Orbits Used</i> | <i>Last Orbit Planner Run</i> | <i>OP Current with Visit?</i> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 01           | DARK                         | ACS/WFC                             | 1                  | 29-Jul-2016 13:39:25.0        | yes                           |

1 Total Orbits Used

### ABSTRACT

This program will be used to create the yearly post-flash calibration reference image. The format of these observations was changed in cycle 20 with proposal 13166. It contains 8 exposures with a post flash level of 2750 electrons.

### OBSERVING DESCRIPTION

This internal program will take a series of short 0.5 second darks with a high post-flash level of 2750 electrons. ACS is unable to take a pure post-flash exposure, which is the reason for the 0.5 seconds of dark exposure. This is a continuation of proposal 14409.

----- Calibration Justification -----

The 0.5s post-flashed darks will allow us to construct the yearly post-flash reference file by using images with a high signal-to-noise flash. Eight separate exposures are taken so that we can eliminate cosmic rays. The post-flash signal has been shown to change with time, so we will continue to

Proposal 14514 (STScI Edit Number: 0, Created: Friday, July 29, 2016 12:39:26 PM EST) - Overview  
monitor it and create a yearly post-flash reference file.

----- Additional Comments -----

We would prefer the observations to be scheduled in November/December.

Proposal 14514 - Visit 01 - ACS Post flash calibration

Fri Jul 29 17:39:26 GMT 2016

| Diagnosics   | Visit  |       |        |                      |               |   |               |        |                                 |       |
|--|--|-------|--------|----------------------|---------------|---|---------------|--------|---------------------------------|-------|
|  | Proposal 14514, Visit 01<br>Diagnostic Status: Warning<br>Scientific Instruments: ACS/WFC<br>Special Requirements: BETWEEN 11-NOV-2016:00:00:00 AND 30-DEC-2016:00:00:00 |       |        |                      |               |   |               |        |                                 |       |
| (Visit 01) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU |  |       |        |                      |               |   |               |        |                                 |       |
| Exposures  | #  | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params.  | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|  | 1  |       | DARK   | ACS/WFC, ACCUM, WFC  | DEF           | COMPRESSION=N<br>ONE;<br>PAREXP=NONE;<br>FLASH=2750 |               |        | 0.5 Secs (0.5 Secs)<br>[==>]    | [1]   |
|  | 2  |       | DARK   | ACS/WFC, ACCUM, WFC  | DEF           | COMPRESSION=N<br>ONE;<br>PAREXP=NONE;<br>FLASH=2750 |               |        | 0.5 Secs (0.5 Secs)<br>[==>]    | [1]   |
|  | 3  |       | DARK   | ACS/WFC, ACCUM, WFC  | DEF           | COMPRESSION=N<br>ONE;<br>PAREXP=NONE;<br>FLASH=2750 |               |        | 0.5 Secs (0.5 Secs)<br>[==>]    | [1]   |
|  | 4  |       | DARK   | ACS/WFC, ACCUM, WFC  | DEF           | COMPRESSION=N<br>ONE;<br>PAREXP=NONE;<br>FLASH=2750 |               |        | 0.5 Secs (0.5 Secs)<br>[==>]    | [1]   |
|  | 5  |       | DARK   | ACS/WFC, ACCUM, WFC  | DEF           | COMPRESSION=N<br>ONE;<br>PAREXP=NONE;<br>FLASH=2750 |               |        | 0.5 Secs (0.5 Secs)<br>[==>]    | [1]   |
|  | 6  |       | DARK   | ACS/WFC, ACCUM, WFC  | DEF           | COMPRESSION=N<br>ONE;<br>PAREXP=NONE;<br>FLASH=2750 |               |        | 0.5 Secs (0.5 Secs)<br>[==>]    | [1]   |
|  | 7  |       | DARK   | ACS/WFC, ACCUM, WFC  | DEF           | COMPRESSION=N<br>ONE;<br>PAREXP=NONE;<br>FLASH=2750 |               |        | 0.5 Secs (0.5 Secs)<br>[==>]    | [1]   |
|  | 8  |       | DARK   | ACS/WFC, ACCUM, WFC  | DEF           | COMPRESSION=N<br>ONE;<br>PAREXP=NONE;<br>FLASH=2750 |               |        | 0.5 Secs (0.5 Secs)<br>[==>]    | [1]   |

