

Table 28. History of COS SIAF Changes and FGS Alignment Activities

YEAR.DAY	STScI <i>PR</i> # <sup>a</sup>	Entries Changed	Comment
2001.001	N/A	Original 10 <sup>b</sup>	Estimates for all COS apertures from Ground Testing
2009.054	61897	None	FGS1R Alignment Update
2009.215	63138	Original 10	On-orbit positions based upon SMOV alignment
2010.055	64538	Original 10	Update following December 2009 re-alignment
2010.263	65904	None	FGS2R2 Distortion/Scale Update
2011.172	68498	Original 10 + 16 New entries <sup>c</sup>	Update original 10 to match June 2011 FGS realignment LP2 prep. 2 x copies of 8 original non-MACro apertures. 8 (4 FUV, 4 NUV) have an ' <b>A</b> ' (ALTERNATE) added to the end. 8 (4 FUV, 4 NUV) have a ' <b>B</b> ' (BEST) added to end.
2011.206	68299	None	FGS2R2 Allowed to be Dominant in GS Pairs
2012.086	70792	LF* <b>A</b>	Initial correction to 4 LP2 FUV LP*Alternate entries
2012.100	70903	LF* <b>A</b>	LP2 correction to 4 FUV LP*Alternate entries.
2012.135	71160	LF* <b>A</b>	<i>PR</i> #70903 adjustment incorrectly applied, corrected.
2012.205	71568	LF* <b>A</b> and LF* <b>B</b>	Swap FUV <b>A</b> and <b>B</b> entries. After, LF* <b>A</b> =LP1 & LP* <b>B</b> =LP2
2013.205	75035	None	FGS re-alignment update loaded to HST
2014.055	76982	All Entries	SIAF update to match FGS re-alignment (all apertures) $\Delta[V2,V3] = [0.077, -0.070]$ "
2014.188	78255	LF* <b>A</b>	LP3 initial estimates installed in LF* <b>A</b>
2014.245	78801	LF* <b>A</b>	LP3 Final Refinement
2014.265	78775	LF* <b>A</b> and LF* <b>B</b>	LP3 Move <b>Best</b> /Alternate Swap: LP1=Original, LP2=LF* <b>A</b> & LP3=LF* <b>B</b> . Activated 2014.351 (SIAF entries use 2014.265)
2015.327		None	COS stopped using FGS2R2 as DOMinant FGS
2016.095	83878	None	New FGS2R2 Calibration installed on HST FGS2R2 DOM GS still OFF for COS, but on for STIS
2016.123		None	Based upon STIS data, FGS2R2 for DOM GS re-enabled for COS
2016.151	84188	Add 32 LP1-8 entries LF* <b>1,2,3</b> updated LF* <b>4,5,6,7,8</b>	Install new LP# nomeclature Original, Alternate, and <b>Best</b> copied to LP1, LP2 & LP3 LP4-8 entries set to LP3 values
2016.346	86315	LF* <b>4</b>	Initial LP4 Estimates
2017.058	86877	LF* <b>4</b>	LP4 Position Update ( $\Delta[V2,V3]=[0.0255, -0.0255]$ )

Note. — Trailing characters not part of the original nomenclature are shown in **bold**.

<sup>a</sup>Problem Report #s refer to the SCIOPSDB delivery PRs.

<sup>b</sup>The original 5 NUV SIAF entries were LNMAC, LNBOA, LNPSA, LAPTNPFAOF & LAPTNBFAOF. The original 5 FUV entries were LFMAC, LFBOA, LFPSA, LAPTFPSAOF & LAPTFBFAOF.

<sup>c</sup>The 8 new Alternate entries were LNBOAA, LNPSAA, LFBOAA, LFPSAA, LAPTFPSAFA, LAPTFBOAFA, LAPTNPFAFA & LAPTNBFAFA. The 8 new **Best** SIAF entries were LNBOAB, LNPSAB, LFBOAB, LFPSAB, LAPTFPSAFB, LAPTFBOAFB, LAPTNPFAFB & LAPTNBFAFB. Note that for the offset apertures, the penultimate letter, "O", has been removed to create room for the trailing **A** or **B**.