



## 10700 - Guide Star Test for the Deep Impact Encounter

Cycle: 14, Proposal Category: GO/DD

(Availability Mode: AVAILABLE)

### INVESTIGATORS

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### VISITS

<i>Visit</i>	<i>Targets</i>	<i>Configurations</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
05	(2) 0554600926F30554601372F1-V05	S/C	1	02-May-2005 11:36:41.0	yes
06	(4) 0554600926F30554601372F1-V06	S/C	1	02-May-2005 11:36:42.0	yes
08	(3) 0554601122F20554601372F1-V08	S/C	1	02-May-2005 11:36:43.0	yes
45	(2) 0554600926F30554601372F1-V05	S/C	1	02-May-2005 11:36:44.0	yes
46	(4) 0554600926F30554601372F1-V06	S/C	1	02-May-2005 11:36:45.0	yes

## Proposal 10700 - Overview

<i>Visit</i>	<i>Targets</i>	<i>Configurations</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
47	(5) 0554601319F30554601372F1-V07	S/C	1	02-May-2005 11:36:46.0	yes
48	(3) 0554601122F20554601372F1-V08	S/C	1	02-May-2005 11:36:47.0	yes
85	(2) 0554600926F30554601372F1-V05	S/C	1	02-May-2005 11:36:48.0	yes
86	(4) 0554600926F30554601372F1-V06	S/C	1	02-May-2005 11:36:48.0	yes
87	(5) 0554601319F30554601372F1-V07	S/C	1	02-May-2005 11:36:49.0	yes
88	(3) 0554601122F20554601372F1-V08	S/C	1	02-May-2005 11:36:50.0	yes

11 Total Orbits Used

### **ABSTRACT**

This proposal is to perform guide star tests on the critical HST science visits circum-encounter of the Deep Impact mission with comet 9P/Tempel 1.

### **OBSERVING DESCRIPTION**

This program is to conduct guide star tests for the Deep Impact proposals 10144 and 10456.

Proposal 10700 - Visit 05 - Guide Star Test for the Deep Impact Encounter

Mon May 02 15:36:51 GMT 2005

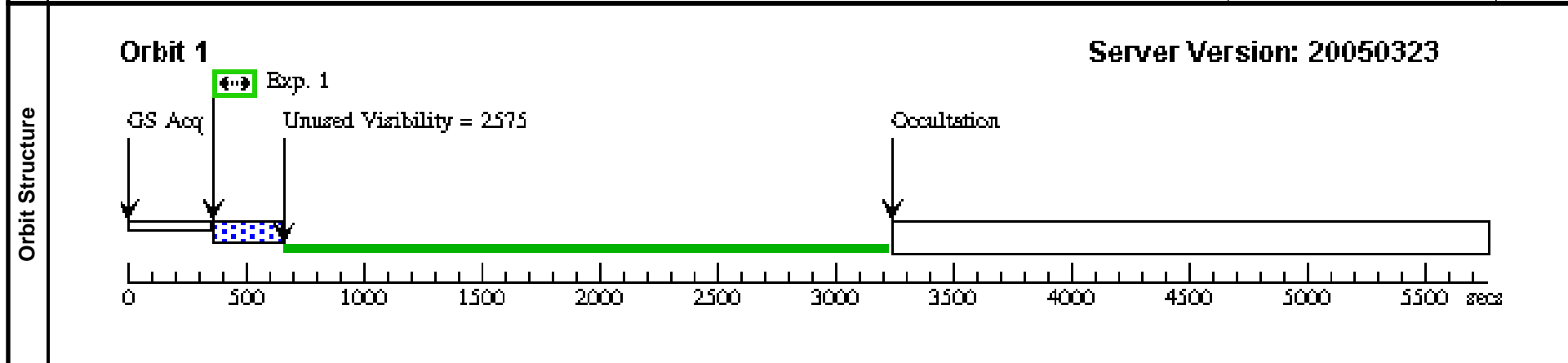
<b>Visit</b>	<b>Proposal 10700, Visit 05</b>				
	<b>Diagnostic Status: No Diagnostics</b>				
	Scientific Instruments: S/C				
	Special Requirements: ORIENT 110.0D TO 110.0 D				

*Comments: Visit 05 corresponds to visit 05 in 10456. This is also the primary guide star pair for visit 06. The orient is chosen to correspond to midrange in visit 05's gs availability.*

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	0554600926F305546013 72F1-V05	RA: 13 38 14.1600 (204.5590000d) Dec: -09 38 56.40 (-9.64900d)	Parallax: 0.0" Epoch of Position:	V=15.0+/-0.0	Coordinate Source: IMAGE_TIED_TO_GSC_FRAME
		Alt Name1: GSPAIR1045605	Equinox: J2000 Plate Id: (?)			

*Comments: This target is set up to point in such a manner as to allow a guide star test on the named pair. This is the prime pair for visit 05 and 06 in 10456. Pointing is set for visit 05 start time.*

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	1	(2) 0554600926F305 54601372F1-V05	S/C, DATA, V1			GSPAIR 055460092 6F30554601372F1		300.0 Secs [==>]	[1]



Proposal 10700 - Visit 06 - Guide Star Test for the Deep Impact Encounter

Mon May 02 15:36:51 GMT 2005

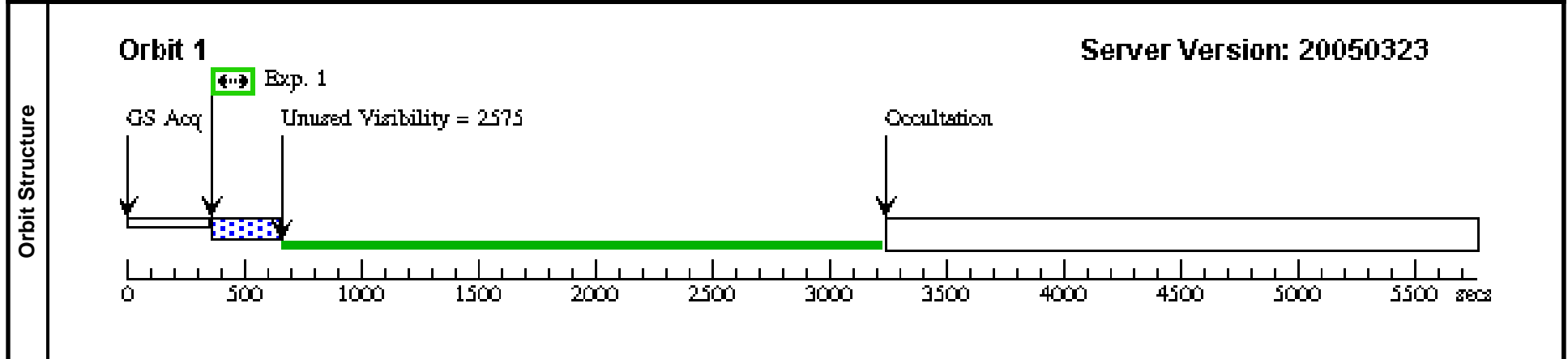
<b>Visit</b>	<b>Proposal 10700, Visit 06</b>				
	<b>Diagnostic Status: No Diagnostics</b>				
	Scientific Instruments: S/C				
	Special Requirements: ORIENT 110.0D TO 110.0 D				

*Comments: Visit 06 corresponds to visit 06 in 10456. This is also the primary guide star pair for visit 05. The orient is chosen to correspond to midrange in visit 05's gs availability and be compatible with visit 06.*

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	0554600926F305546013 72F1-V06	RA: 13 38 21.3600 (204.5890000d) Dec: -09 40 33.60 (-9.67600d)	Parallax: 0.0" Epoch of Position:	V=15.0+/-0.0	Coordinate Source: IMAGE_TIED_TO_GSC_FRAME
		Alt Name1: GSPAIR1045606	Equinox: J2000 Plate Id: (?)			

*Comments: This target is set up to point in such a manner as to allow a guide star test on the named pair. This is the prime pair for visit 05 and 06 in 10456. Pointing is set for visit 06 start time.*

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	1	(4) 0554600926F305 54601372F1-V06	S/C, DATA, V1			GSPAIR 055460092 6F30554601372F1		300.0 Secs [==>]	[1]



Proposal 10700 - Visit 08 - Guide Star Test for the Deep Impact Encounter

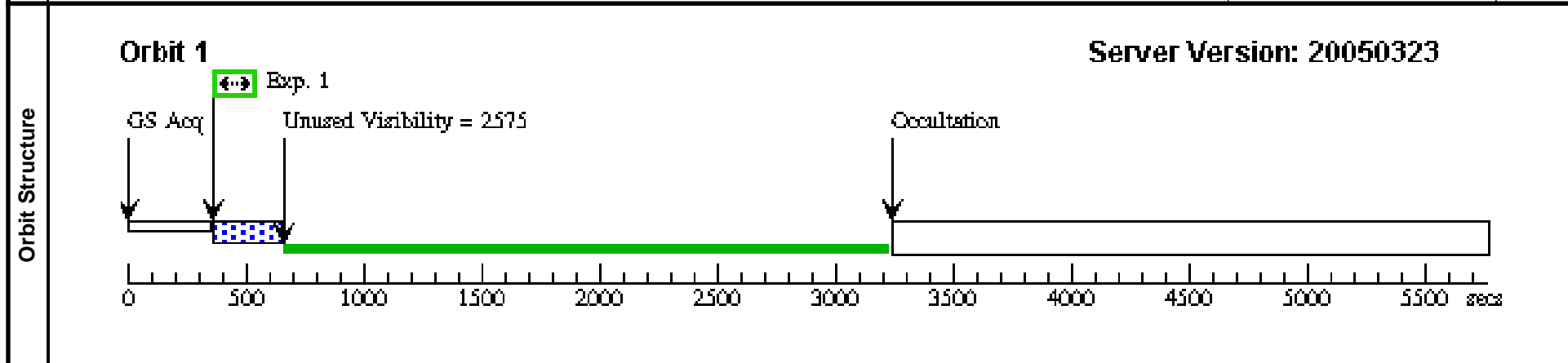
Mon May 02 15:36:52 GMT 2005

<b>Visit</b>	<b>Proposal 10700, Visit 08</b>				
	<b>Diagnostic Status: No Diagnostics</b>				
	Scientific Instruments: S/C				
	Special Requirements: ORIENT 97.0D TO 97.0 D				

*Comments: This visit is the primary guide star pair corresponding to visit 1045608.*

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	0554601122F205546013 72F1-V08 Alt Name1: GSPAIR1045608	RA: 13 38 40.5600 (204.6690000d) Dec: -09 42 14.40 (-9.70400d) Equinox: J2000 Plate Id: (?)	Parallax: 0.0" Epoch of Position:	V=15.0+/-0.0	Coordinate Source: IMAGE_TIED_TO_GSC_FRAME

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	1	(3) 0554601122F205 54601372F1-V08	S/C, DATA, V1			GSPAIR 055460112 2F20554601372F1		300.0 Secs [==>]	[1]



Proposal 10700 - Visit 45 - Guide Star Test for the Deep Impact Encounter

Mon May 02 15:36:52 GMT 2005

<b>Visit</b>	<b>Proposal 10700, Visit 45</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: S/C Special Requirements: ORIENT 110.0D TO 110.0 D Comments: Visit 05 corresponds to visit 05 in 10456. This is also the primary guide star pair for visit 06. The orient is chosen to correspond to midrange in visit 05's gs availability. This visit (45) is to perform a guide star test on the first star of the pair only.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(2)	0554600926F305546013 72F1-V05 Alt Name1: GSPAIR1045605	RA: 13 38 14.1600 (204.5590000d) Dec: -09 38 56.40 (-9.64900d) Equinox: J2000 Plate Id: (?)	Parallax: 0.0" Epoch of Position:	V=15.0+/-0.0	Coordinate Source: IMAGE_TIED_TO_GSC_FRAME				
Comments: This target is set up to point in such a manner as to allow a guide star test on the named pair. This is the prime pair for visit 05 and 06 in 10456. Pointing is set for visit 05 start time.										
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1	1	(2) 0554600926F305 54601372F1-V05	S/C, DATA, V1			GSPAIR 055460092 6F30000000000F0		300.0 Secs [==>]	[1]
<b>Orbit Structure</b>	<p><b>Orbit 1</b> <span style="float: right;"><b>Server Version: 20050323</b></span></p> <p>The diagram shows a horizontal timeline from 0 to 5500 seconds. At approximately 200 seconds, 'GS Acq' is indicated. At 400 seconds, 'Exp. 1' is shown as a blue checkered box. A green bar representing 'Unused Visibility = 2575' spans from approximately 600 seconds to 3200 seconds. At approximately 3300 seconds, 'Occultation' begins, indicated by a downward arrow and a white box extending to the end of the timeline.</p>									

Proposal 10700 - Visit 46 - Guide Star Test for the Deep Impact Encounter

Mon May 02 15:36:52 GMT 2005

<b>Visit</b>	<b>Proposal 10700, Visit 46</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: S/C Special Requirements: ORIENT 110.0D TO 110.0 D Comments: Visit 06 corresponds to visit 06 in 10456. This is also the primary guide star pair for visit 05. The orient is chosen to correspond to midrange in visit 05's gs availability and be compatible with visit 06. This visit (46) tests the first star of the pair.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(4)	0554600926F305546013 72F1-V06 Alt Name1: GSPAIR1045606	RA: 13 38 21.3600 (204.5890000d) Dec: -09 40 33.60 (-9.67600d) Equinox: J2000 Plate Id: (?)	Parallax: 0.0" Epoch of Position:	V=15.0+/-0.0	Coordinate Source: IMAGE_TIED_TO_GSC_FRAME				
Comments: This target is set up to point in such a manner as to allow a guide star test on the named pair. This is the prime pair for visit 05 and 06 in 10456. Pointing is set for visit 06 start time.										
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1	1	(4) 0554600926F305 54601372F1-V06	S/C, DATA, V1			GSPAIR 055460092 6F30000000000F0		300.0 Secs [==>]	[1]
<b>Orbit Structure</b>	<p><b>Orbit 1</b> <span style="float: right;"><b>Server Version: 20050323</b></span></p> <p>The diagram shows a horizontal timeline from 0 to 5500 seconds. At approximately 100 seconds, 'GS Acq' is indicated. At 400 seconds, 'Exp. 1' is shown as a blue checkered box. From 600 to 3200 seconds, a green bar represents 'Unused Visibility = 2575'. At 3300 seconds, 'Occultation' begins, shown as a white box extending to 5500 seconds.</p>									

Proposal 10700 - Visit 47 - Guide Star Test for the Deep Impact Encounter

Mon May 02 15:36:52 GMT 2005

<b>Visit</b>	<b>Proposal 10700, Visit 47</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: S/C Special Requirements: ORIENT 105.6D TO 105.6 D <i>Comments: Visit 06 corresponds to visit 07 in 10456. This visit (47) tests the first star of the pair. Orient is chosen approx midway in GS roll range for 1045607.</i>									
	<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>		
(5)		0554601319F305546013 72F1-V07  Alt Name1: GSPAIR1045607	RA: 13 38 30.4800 (204.6270000d) Dec: -09 41 38.40 (-9.69400d)  Equinox: J2000 Plate Id: (?)	Parallax: 0.0" Epoch of Position:		V=15.0+/-0.0	Coordinate Source: IMAGE_TIED_TO_GSC_FRAME			
<i>Comments: This target is for visit 07's likely guide star pair.</i>										
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1	1	(5) 0554601319F305 54601372F1-V07	S/C, DATA, V1			GSPAIR 055460131 9F30000000000F0		300.0 Secs [==>]	[1]
<b>Orbit Structure</b>	<p><b>Orbit 1</b> <span style="float: right;"><b>Server Version: 20050323</b></span></p>									
	<p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 secs</p>									

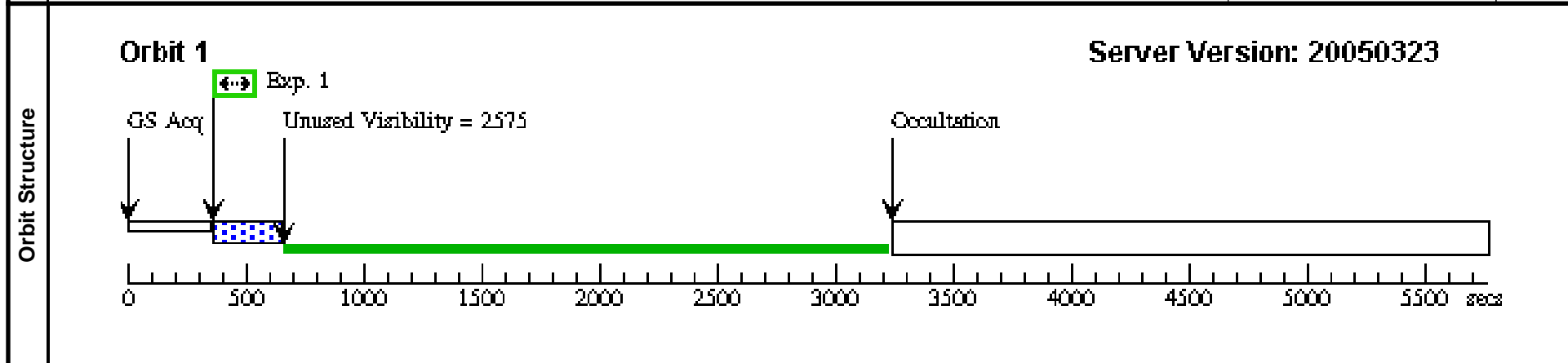
Proposal 10700 - Visit 48 - Guide Star Test for the Deep Impact Encounter

Mon May 02 15:36:52 GMT 2005

<b>Visit</b>	<b>Proposal 10700, Visit 48</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: S/C Special Requirements: ORIENT 97.0D TO 97.0 D <i>Comments: This visit is the primary guide star pair corresponding to visit 1045608. This visit (48) tests the first guide star of the pair.</i>				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	0554601122F205546013 72F1-V08 Alt Name1: GSPAIR1045608	RA: 13 38 40.5600 (204.6690000d) Dec: -09 42 14.40 (-9.70400d) Equinox: J2000 Plate Id: (?)	Parallax: 0.0" Epoch of Position:	V=15.0+/-0.0	Coordinate Source: IMAGE_TIED_TO_GSC_FRAME

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	1	(3) 0554601122F205 54601372F1-V08	S/C, DATA, V1			GSPAIR 055460112 2F20000000000F0		300.0 Secs [==>]	[1]



Proposal 10700 - Visit 85 - Guide Star Test for the Deep Impact Encounter

Mon May 02 15:36:53 GMT 2005

<b>Visit</b>	<b>Proposal 10700, Visit 85</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: S/C Special Requirements: ORIENT 110.0D TO 110.0 D Comments: Visit 05 corresponds to visit 05 in 10456. This is also the primary guide star pair for visit 06. The orient is chosen to correspond to midrange in visit 05's gs availability. This visit (85) tests the second guide star of the pair.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(2)	0554600926F305546013 72F1-V05 Alt Name1: GSPAIR1045605	RA: 13 38 14.1600 (204.5590000d) Dec: -09 38 56.40 (-9.64900d) Equinox: J2000 Plate Id: (?)	Parallax: 0.0" Epoch of Position:	V=15.0+/-0.0	Coordinate Source: IMAGE_TIED_TO_GSC_FRAME				
Comments: This target is set up to point in such a manner as to allow a guide star test on the named pair. This is the prime pair for visit 05 and 06 in 10456. Pointing is set for visit 05 start time.										
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1	1	(2) 0554600926F305 54601372F1-V05	S/C, DATA, V1			GSPAIR 055460137 2F10000000000F0		300.0 Secs [==>]	[1]
<b>Orbit Structure</b>	<b>Orbit 1</b> <span style="float: right;"><b>Server Version: 20050323</b></span>									
	<p>The diagram shows the timeline of Orbit 1. The x-axis is labeled 'secs' and ranges from 0 to 5500. Key events are marked with arrows: 'GS Acq' at ~200s, 'Exp. 1' (a blue checkered box) from 400s to 600s, 'Unused Visibility = 2575' from 600s to 3200s, and 'Occultation' starting at 3200s. A green bar highlights the period from 600s to 3200s.</p>									

Proposal 10700 - Visit 86 - Guide Star Test for the Deep Impact Encounter

Mon May 02 15:36:53 GMT 2005

<b>Visit</b>	<b>Proposal 10700, Visit 86</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: S/C Special Requirements: ORIENT 110.0D TO 110.0 D Comments: Visit 06 corresponds to visit 06 in 10456. This is also the primary guide star pair for visit 05. The orient is chosen to correspond to midrange in visit 05's gs availability and be compatible with visit 06. This visit (86) tests the second star of the pair.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(4)	0554600926F305546013 72F1-V06 Alt Name1: GSPAIR1045606	RA: 13 38 21.3600 (204.5890000d) Dec: -09 40 33.60 (-9.67600d) Equinox: J2000 Plate Id: (?)	Parallax: 0.0" Epoch of Position:	V=15.0+/-0.0	Coordinate Source: IMAGE_TIED_TO_GSC_FRAME				
Comments: This target is set up to point in such a manner as to allow a guide star test on the named pair. This is the prime pair for visit 05 and 06 in 10456. Pointing is set for visit 06 start time.										
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1	1	(4) 0554600926F305 54601372F1-V06	S/C, DATA, V1			GSPAIR 055460137 2F10000000000F0		300.0 Secs [==>]	[1]
<b>Orbit Structure</b>	<p><b>Orbit 1</b> <span style="float: right;"><b>Server Version: 20050323</b></span></p> <p>The diagram shows a horizontal timeline from 0 to 5500 seconds. At approximately 100 seconds, 'GS Acq' is indicated. At approximately 400 seconds, 'Exp. 1' is shown as a blue checkered box. From approximately 600 seconds to 3200 seconds, a green bar represents 'Unused Visibility = 2575'. At approximately 3300 seconds, 'Occultation' begins, shown as a white box extending to 5500 seconds.</p>									

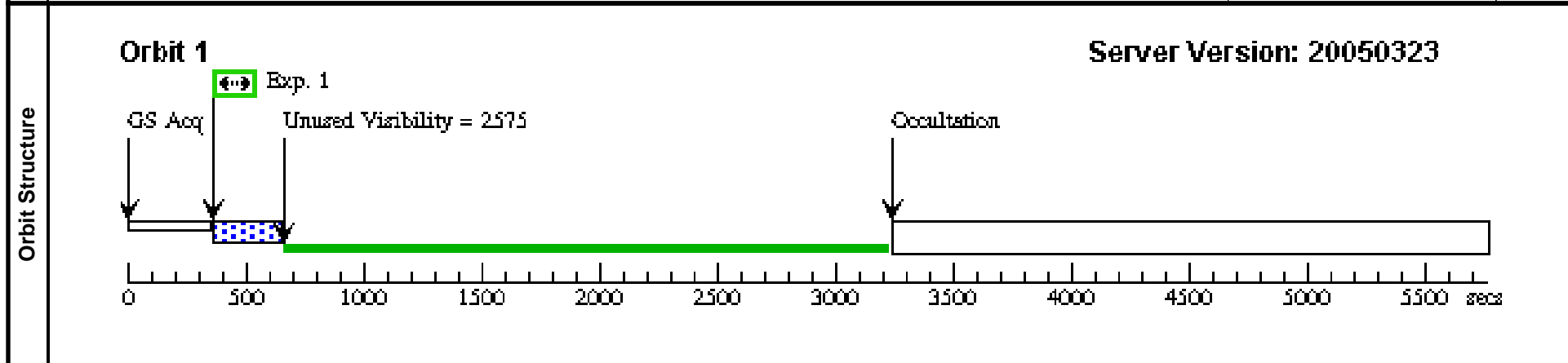
Proposal 10700 - Visit 87 - Guide Star Test for the Deep Impact Encounter

Mon May 02 15:36:54 GMT 2005

<b>Visit</b>	<b>Proposal 10700, Visit 87</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: S/C Special Requirements: ORIENT 105.6D TO 105.6 D Comments: Visit 06 corresponds to visit 07 in 10456. This visit (47) tests the second star of the pair. Orient is chosen approx midway in GS roll range for 1045607.				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(5)	0554601319F305546013 72F1-V07 Alt Name1: GSPAIR1045607	RA: 13 38 30.4800 (204.6270000d) Dec: -09 41 38.40 (-9.69400d) Equinox: J2000 Plate Id: (?)	Parallax: 0.0" Epoch of Position:	V=15.0+/-0.0	Coordinate Source: IMAGE_TIED_TO_GSC_FRAME
	Comments: This target is for visit 07's likely guide star pair.					

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	1	(5) 0554601319F305 54601372F1-V07	S/C, DATA, V1			GSPAIR 055460131 9F30000000000F0		300.0 Secs [==>]	[1]



Proposal 10700 - Visit 88 - Guide Star Test for the Deep Impact Encounter

Mon May 02 15:36:54 GMT 2005

<b>Visit</b>	<b>Proposal 10700, Visit 88</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: S/C Special Requirements: ORIENT 97.0D TO 97.0 D Comments: This visit is the primary guide star pair corresponding to visit 1045608. This visit (88) tests the second star of the pair.				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	0554601122F205546013 72F1-V08 Alt Name1: GSPAIR1045608	RA: 13 38 40.5600 (204.6690000d) Dec: -09 42 14.40 (-9.70400d) Equinox: J2000 Plate Id: (?)	Parallax: 0.0" Epoch of Position:	V=15.0+/-0.0	Coordinate Source: IMAGE_TIED_TO_GSC_FRAME

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	1	(3) 0554601122F205 54601372F1-V08	S/C, DATA, V1			GSPAIR 055460137 2F10000000000F0		300.0 Secs [==>]	[1]

