



Display

Relationships

[Deliveries](#)

[Prime/Rider](#)

Export

[XML](#)

[Summary-](#)

[Text](#)

[APF](#)

Comments

[View](#)

[Add](#)

Page

[Legend](#)

[Help](#)

This request revision is contained in a delivery and is frozen. Changes must be saved as a new revision.

Request Header [Description](#) [Observations](#) [Files](#) [Steps](#)

ID:	RSS_201EA_DSNMONCAL003_RSS		
Title:	DSN Monopulse Calibration	Revision:	1
Rev Created:	17 Apr 2013, 16:54, by Anabtawi, Aseel	Priority:	2
Updated:	17 Apr 2013, 16:55, by Anabtawi, Aseel	Comments:	0
Start Time:	2014-035T08:22:00 GMT		
Pre Start	001T12:00:00		
Tolerance:			
Post Start	003T12:00:00		
Tolerance:			
Duration:	000T09:00:00		
End Time:	2014-035T17:22:00 GMT		
Change:	created from copy		
Change Justification:			
Visibility:	Public		
SPASS Type:	SPASS Rider (Collaborative: No)		
Group Filter:	RWG		
Contact Info:	Aseel Anabtawi, 393-1073		
Description:	<p>An opportunity for the DSN station to perform an on-point phase cal (using Cassini Ka-band signal) to update the monopulse TAU value, which is needed for monopulse to work correctly. The calcs should be conducted when the s/c is in 1-way mode and again when the s/c is 2-way or 3-way mode. The new TAU is the average of these two values.</p> <p>The mono cal can be conducted during the prime tracking pass with minimal impact to X-band (0.23 dB down in gain on X-band, 7 mdeg offset in pointing).</p> <p>DSS-25 required for X- and Ka-band support.</p>		

Request Description [Header](#) [Observations](#) [Files](#) [Steps](#)

Pointing Information			
Pointing:	XBAND to Earth		
Agreement:			
Primary Pointing:	XBAND to Earth		
Secondary Pointing:	PIC		
Resources			
Sequence Type:	Background	SSR Data Class:	Normal
Op Mode:	RSSK	Telem Mode:	-
Power (watts):	38.7	Est CDS Words:	200
Rate Multiplier:		APGEN Rate:	0
Effective Rate:	0 bps	Data Volume:	0 x 10 ⁶ bits
Frames:		Bits Per Frame:	
Team Consumables:	Ka-TWTA and KEX on at start; off at end. KAT thermal cycles incurred=0.2500		
IEB Text:			
Apgen Fields			
Activity Type:	RSS Activity		

Attributes		Parameters	
Legend:	RSS	CDSWords:	200
Duration:	000T09:00:00	Power:	38.7
Color:	Hot Pink	SSRDataClass:	Normal
Pattern:	60 - Large Pinwheels		
Description:	see above		

Green items are request fields shown here for clarity

Support and Other Descriptive Information

Liens:	
Waivers:	
RTC:	
FSW Loads:	
ITL Request:	
Special DSN Requirements:	DSS-25 required to track X- and Ka-band.
Special Requirements:	This activity will need to start with the RSS PIM Warm-Up Opmode (RSSP_RWAF), and be followed 5 minutes later with the RSS Ka-frequency Opmode (RSSK, SLOW an option). IO-RS Ops should be consulted, along with the integrated and approved activities TOL, before SASF generation.
Support Imaging Required:	
Document References:	
As Flown:	

SASF Fields

Processor:	
Key:	
Workgroup:	
Status:	
Upper Label:	
Lower Label:	
Edit Group:	
Request State:	

Associated Observations

[Header](#) [Description](#) [Files](#) [Steps](#)

Last Updated	Observation	Rev	Cmts

Associated External Files

[Header](#) [Description](#) [Observations](#) [Steps](#)

File Name	Relative Path	Last Modified	File Size

Steps

[Header](#) [Description](#) [Observations](#) [Files](#)

Type	Label	Name	Offset	Off-Type