

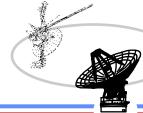
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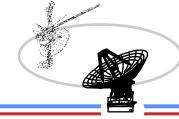


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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
NMC D3.2 SPS 1.4 I&T, AT Install/SOAK/D3.3 Install/SOAK	CDSCC	Feb 2015 May 2015	Dec 2015 Dec 2015	49 50	Jim Buckley Shirley Cizmar, Dave Taylor	All NMC task in 2015 have been completed
NMC 4-MSPA I&T, AT SOAK Install, Ops Install	GDSCC CDSCC	Feb 2016 May 2016	Aug 2016 Aug 2016	06, 15, 30 11 & 31		Require 8 hour downtimes in 2016 for NMC 4-MSPA tasks. All NMC task need to be scheduled during dayshift hours.
NMC Operational Readiness Test	MDSCC CDSCC MDSCC	May 2016 Nov 2016 Nov 2016	June 2016 Nov 2016 Nov 2016	19 & 23 45 45		Task name is changed to B230 Operations Readiness for all 3 tests. Require additional 8 hour blocks in November for Operational Readiness testing. CDSCC was moved to
	DSOC/ GDSCC	Nov 2016	Nov 2016	46		week 45 prior to MDSCC due to a conflict with a mission event.
AZ Track Replacement	DSS-55	Aug 2015	Nov 2015	34 – 49	Pam Rothman Daniel	Completed and can be used earlier than end of downtime if needed.
	DSS-25	Apr 2018	Jun 2018	14 – 23	Olson	This is NIB to XX/Ka Installation.
Power Work	GDSCC	Dec 2015	Dec 2015	51	Ethan Copitch	Require 16 hour downtime for Apollo Valley Power Work. DSS-26 Comm & PPC Integration will be NIB DSS-14 & DSS-15 will have separate power work tasks. DTRR scheduled for 12/9 with follow-up on 12/18



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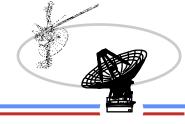
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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
Depot Level Maintenance	DSS-34	Nov 2015	Dec 2015	49 – 51	Paul Richter Bernardo Lopez, John	DSS-34 moved to December time frame and extended 2 weekdays into week 51 Exciter Obsolescence will be NIB to DLM. Completed Need to perform 70m DLM. DSS-63 will be done
Mini DLM	CDSCC	May 2016	May 2016	20 & 21	Phillips	sometime during APCA/HBA Grout, as well as LNA. Antenna Inspection move to 2017 and changed to Mini DLM Will include S-Band TXR Upgrade during DSS-34 Mini DLM.
Depot Level Maintenance	DSS-43	Feb 2017	Mar 2017	07 – 09		NIB to Exciter Obsolescence Installation and LNA Maintenance.
Complex downtime for Power House Commission	CDSCC	Dec 2015 March 2016	Dec 2015 April 2016	12 & 14	John Phillips, Cameron Lyon Dave Taylor	Requires at least 4 6-hour downtimes between Aug 2015 and April 2016, prefer daylight hours, no weekends. Possibly schedule NMC NIB during the downtime in week 50 – was this completed? Additional downtime requested for Feb/March timeframe
S-Band TXR Upgrade	DSS-54 DSS-34	Jan 2016 May 2016	Jan 2016 May 2016	02 21	Harout Matossian	Require 3 days to upgrade the S-Band TXR Mini DLM will be NIB
APCA	DSS-14 DSS-43 DSS-63	Jan 2016 Oct 2017 Mar 2018	May 2016 Feb 2018 Nov 2018	04 – 19 42 – 06 11 – 45	Anna Fan, Barzia Tehrani Dave Taylor	Moved to weeks 04-19 to finish early in preparation for JNO JOI. Suggest doing a demo with JNO prior to RTS. DTRR scheduled for 1/6. Possible weather mitigation, need to stay within the schedule time. DSS-63 will be in conjunction to the HBA Grouting and is extended to 35 weeks.



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Antenna Downtime Status and Forecast

Downtime`	Antenna	Start Date	End Date	Weeks	POC	Notes
Pedestal Metrology	DSS-63 DSS-54	Feb 2016 Feb 2017 Feb 2018 Feb 2019 Feb 2016 Feb 2017 Feb 2018 Jan 2019 Jan 2016 Feb 2016 Feb 2017 Feb 2018 Feb 2018 Feb 2019	Jul 2016 Aug 2017 Aug 2018 Aug 2019 Jul 2016 Aug 2017 Aug 2018 Aug 2019 Jan 2016 Jul 2016 Aug 2017 Aug 2018 Aug 2018 Aug 2019 Jan 2016 Jul 2016 Aug 2017 Aug 2018 Aug 2017	04 & 32 07 & 34 08 & 32 06 & 31 06 & 28 05 & 32 03 & 34 04 & 33 02 09 & 34 06 & 35 05 & 29 08 & 35	David Munoz Muchon Bernardo Lopez	Will measure pedestal stability twice a year in Summer and Winter, through Summer 2019. Require 2 consecutive nights. Will be NIB to shimming in week 32, 2016 Will be NIB to Grouting/APCA in week 32 Will be NIB to LNA in week 31 Will be NIB to LNA and Exciter in week 28 Will be NIB to Ka2 Tune-up in week 5 Added at the request of the complex Moved from week 08 to week 09 due to contention. Will be NIB to LNA in week 5 Bernardo will send a presentation of reason why the metrology is needed.
Power Plant Controller Replacement	MDSCC	April 2016	May 2016	14, 17 & 21	Javier Lopez- Perea	Require a minimum of 15 days separation between downtimes. Tasks moved from weeks 47, 02 and 05, to weeks 14, 17 and 21 Downtime January 5, 2016 4



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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
SWUPS Installation	CDSCC	May 2016 May 2016 May 2016	May 2016 May 2016 May 2016	20 21 21	Dave Taylor Hal Ahlstrom	Must be done in daylight, There is a connection to the power house. Need to avoid InSight/Inspire/MCO activities. There may be Fire Detection issues. S-Band TXR Upgrade and Mini DLM will be scheduled NIB Will be completed prior to JNO JOI. Will use diesel power instead for the JOI.
Shimming Grouting	DSS-63	Jan 2016 May 2016 Jul 2016 Mar 2018	Jan 2016 May 2016 Aug 2016 Nov 2018	03 20 & 21 29 - 33 11 – 45	Dave Taylor Ryan Higuera David Munoz Mochon, Bernardo Lopez, Asim Sehic	Approved additional 2 weeks in May. July is shortened due to Cas. 2 additional sections may need regrouting requiring an additional 2 weeks. Grouting extended to 35 weeks in conjunction with the APCA. With the extended time there will be a 60 degree in July and also a180 degree regrout. Grout and APCA will be combined as 1 activity with the weeks divided between the 2 activities. Could possibly shorten by 4 weeks.
Ka2 Tune-up	DSS-34 DSS-54 DSS-24	Oct 2016 Jan 2017 Mar 2017	Nov 2016 Feb 2017 Mar 2017	44 & 45 04 & 05 11 & 12	Wendy Hodgin	DSS-34 moved to 2016, weeks 44 & 45 with LNA NIB in week 44. This was moved to allow time prior to TESS launch in August 2017. This is budget/resource driven There is a task to build 4th Ka2/S-Band capabilities. This needs to be done 6 months prior to TESS Launch. MERR is scheduled 6 weeks prior to launch. LNA downtime will include Ka2 after the Tune-ups.



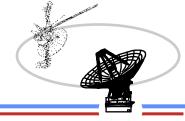
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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
Antenna Inspections/ TXR RF Characterization	CDSCC MDSCC GDSCC CDSCC	Jan 2017 Jun 2018 May 2019 Jan 2020	Jan 2017 Jun 2018 May 2019 Jan 2020	02 & 03 24 & 25 21 & 22 04 & 05	Dave Taylor Daniel Olson Harout Matossian	Inspections require 12 hours, 8 hours NIB to maintenance with 4 hours following for TXR RF Characterization during inspections. Per discussion with engineers the Inspection will use the first 6 hours of downtime and release the last 6 hours for TXR task at each complex. Note: Cannot do Inspection/TXR RF Characterization on 2 antenna on a given day. Inspection slipped 1 year
Follow the Sun Ops Test	Network wide, SPC- 10, 40, 60	Jan 2017 Mar 2017 May 2017 Jun 2017	Jan 2017 March 2017 May 2017 Jun 2017	03 10 19 25	Shirley Cizmar	Require 14 hour Network downtime for testing the Follow the sun (FtS) remote Ops. All 3 complexes concurrent. Require 14 hour Network downtime for testing the Follow the sun (FtS) remote Ops. All 3 complexes concurrent. Require 14 hour Network downtime for testing the Follow the sun (FtS) remote Ops. All 3 complexes concurrent. Require 14 hour Network downtime for testing the Follow the sun (FtS) remote Ops. All 3 complexes concurrent. Require 14 hour Network downtime for testing the Follow the sun (FtS) remote Ops. All 3 complexes concurrent. Performing remote Ops during the last test. No additional task can co-exist during these downtimes
XMTR Controller Replacement	DSS-14	Jun 2017	Jun 2017	25 & 26	Ryan Higuera	Require 2 weeks for transmitter controller replacement in place of L-Band Install task



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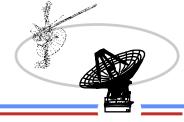


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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
S-Band Install	DSS-26	Sept 2017	Oct 2017	36 – 42	Wendy Hodgin	GDSCC cannot support the downtime as planned in weeks 14-19, so the downtime has moved to weeks 36-42
XX/Ka Installation	DSS-25	Mar 2018	Jun 2018	10 – 23	Wendy Hodgin	XX/Ka requires 14 weeks - AZ Track will be NIB in weeks 14 – 23. Needs to happen as soon after JNO end of mission as possible.
XX Installation	DSS-24	Feb 2019	Apr 2019	06 – 17	Wendy Hodgin	XX requires 12 weeks DSS-24 is not funded at this time, but still in the plan to proceed with downtime. Moving to early 2019 for 12 weeks. Now separate from DSS-25, no Ka installation.
Pedestal Rehab	DSS-54	Nov 4, 2019	Apr 30, 2021	45 – 17	Bernardo Lopez	This Rehab could take 15 – 18 months to complete. Servo Replacement and Transmitter Replacement will be NIB. DSS-56 will become operational October 1, 2019 with Ka2/S-Band feed. If DSS-54 is not available for JWST, the Ka2 will be installed at DSS-55. If we wait for DSS-56 to become operational and DSS-54 can operate until then, DSS-54 will start Pedestal Rehab the first weeks of Nov 2019 and end the last week of April 2021. Servo and Transmitter Replacements will be NIB Status of this task is still unknown at this time.



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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
El Bearing Replacement	DSS-63	Mar 2020	Jun 2020	12 - 24	Asim Sehic	This downtime was request on 11/14/2014. There are about 5-6 years of bearing life left based on last inspection. Requires only 6 weeks. If bearings continue to showing healthy conditions and longevity, this work may be reduced to seals replacement. Backed up to allow for DSS-14 downtime prior to HYB2 Earth Re-Entry.
20 KW XMTR Replacement	DSS-14	Jun 2020	Sep 2020	25 - 38	Pete Hames	Require downtime in preparation for HYB2 Earth Re- Entry



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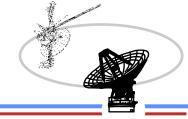


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70m Major Downtimes 2015 - 2020

Downtime	Ant	Start Date	End Date	Weeks	Status	# of Days	Notes and next downtime date
APCA	DSS-14	Jan 25, 2016	May 13, 2016	04 – 19	Approved	109	LNA is scheduled NIB in week 04 Next downtime is June 2020
20 KW XMTR Replacement	DSS-14	Jun 15, 2020	Sep 19, 2020	25 – 38	Proposed	95	
Depot Level Maintenance	DSS-43	Feb 19, 2017	Mar 3, 2017	07 – 09	Approved	12	NIB to Exciter Obsolescence Installation Next downtime is October of 2017
APCA	DSS-43	Oct 30, 2017	Feb 9, 2018	44 – 06	Approved	101	LNA is scheduled NIB in week 02 of 2018
Shimming	DSS-63	Jan 18, 2016	Jan 23, 2016	03	Approved	5	NIB to LNA Next downtime May 2016
Shimming	DSS-63	May 16, 2016	May 27, 2016	20 – 31	Approved	11	Next downtime is Aug of 2016.
Shimming	DSS-63	Jul 18, 2016	Aug 19, 2016	29 – 33	Approved	11	Exciter Obsolescence Install is NIB Next downtime is March of 2018.
Grouting/APCA	DSS-63	Mar 12, 2018	Nov 9, 2018	11 – 45	Proposed	242	Next downtime is March of 2020
El Bearing Replacement	DSS-63	Mar 16, 2020	Jun 12, 2020	12 – 24	Proposed	88	

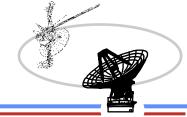




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Antenna	Start Date	End Date	Week	STATUS	Number of Days	2015 LNAs	Number of months since last LNA
DSS-43	Jan	Jan	01	Approved	5	Mar, Jun, Oct, Nov, Dec of 2015	10 months
DSS-63	Jan	Jan	03	Approved	5	Jan, Nov of 2015 During grouting	13 months
DSS-14	Jan	Jan	04	Approved	5	Dec of 2014 During APCA	13 months
DSS-25	Apr	Apr	14	Approved	3	Feb, Jul, Oct of 2015	14 months
DSS-45	Apr	Apr	17	Approved	4	Feb, Apr, Jul of 2015	14 months
DSS-24	May	May	19	Approved	3	Apr, Aug of 2015 After DSS-14 APCA	13 months
DSS-26	Jun	Jun	25	Approved	3	May 2015	13 months
DSS-54	Jul	Jul	28	Approved	3	Jun 2015	13 months
DSS-15	Aug	Aug	32	Approved	3	Mar of 2015	17 months
DSS-34	Nov	Nov	44	Approved	3	Sep, Nov 2015	14 months
DSS-65	Nov	Nov	46	Approved	4	Jul, Dec 2015	16 months
DSS-35	Dec	Dec	49	Approved	50 hours	Oct 2015	14 months
DSS-55	Dec	Dec	50	Approved	3	Aug 2015	16 months

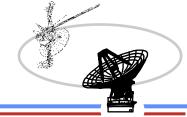




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Antenna	Start Date	End Date	Week	STATUS	Number of Days	Notes for 2017 LNAs	Number of months since last LNA
DSS-43	Mar	Mar	08 & 09	Proposed	5	NIB to Exciter Obsolescence	14 months
DSS-14	Mar	Mar	13	Proposed	5	Stand Alone	14 months
DSS-63	May	May	19	Proposed	5	Stand Alone	16 months
DSS-25	Jun	Jun	22	Proposed	3	Stand Alone	14 months
DSS-24	Jul	Jul	27	Proposed	3	Stand Alone	14 months
DSS-54	Oct	Oct	41	Proposed	3	Stand Alone	15 months

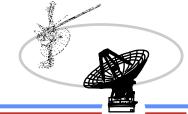




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Antenna	Start Date	End Date	Week	STATUS	Number of Days	Notes for 2018 LNAs	Number of months since last LNA
DSS-43	Jan	Jan	02	Proposed	5	NIB to APCA	10 months
DSS-55	Feb	Feb	05	Proposed	3	Stand Alone	13 months
DSS-14	Mar	Mar	09	Proposed	5	Stand Alone	11 months
DSS-34	Mar	Mar	09	Proposed	3	Ka2 will be added to process	15 months
DSS-25	Mar	Mar	11	Proposed	3	Stand Alone	9 months
DSS-35	Apr	Apr	16	Proposed	50 hours	Stand Alone	16 months
DSS-63	Jun	Jun	23	Proposed	5	NIB to APCA/Grouting	13 months
DSS-24	Sep	Sep	39	Proposed	3	Ka2 will be added to process	14 months
DSS-54	Nov	Nov	47	Proposed	3	Ka2 will be added to process	13 months

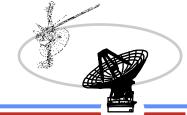




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Antenna	Start Date	End Date	Week	STATUS	Number of Days	Notes for 2019 LNAs	Number of months since last LNA
DSS-43	Mar	Mar	10	Proposed	5	Stand Alone	14 months
DSS-34	May	May	18	Proposed	3	Stand Alone	14 months
DSS-14	May	May	19	Proposed	5	Stand Alone	14 months
DSS-55	May	May	21	Proposed	3	Stand Alone	15 months
DSS-35	Jun	Jun	23	Proposed	50 hours	Stand Alone	14 months
DSS-25	Jun	Jun	24	Proposed	3	Stand Alone	14 months
DSS-63	Aug	Aug	31	Proposed	5	Stand Alone	14 months
DSS-24	Dec	Dec	49	Proposed	3	Stand Alone	13 months





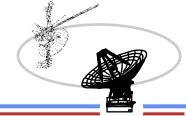
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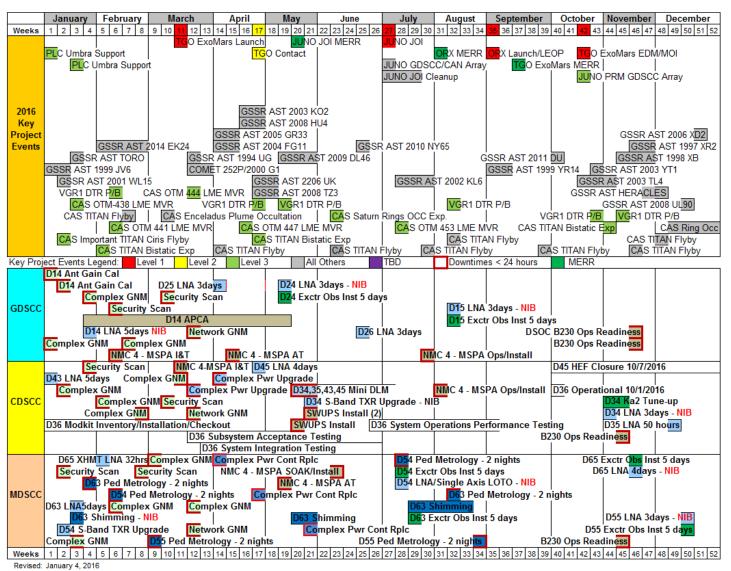
Exciter Obsolescence Install 2015 – 2018

Antenna	Start Date	End Date	Week	Status	Number of Days	Notes
DSS-34	Nov 30, 2015	Dec 15, 2015	49 – 51	Approved	12	Completed
DSS-24	May 9, 2016	May 13,2016	19	Approved	5	DSS-24 LNA NIB
DSS-54	Jul 11, 2016	Jul 15, 2016	28	Approved	5	DSS-54 LNA/Single Axis LOTO NIB
DSS-15	Aug 8, 2016	Aug 11, 2016	32	Approved	5	DSS-15 LNA NIB
DSS-63	Jul 25, 2016	Jul 30, 2016	30	Approved	5	NIB to Shimming
DSS-65	Nov 14, 2016	Nov 19, 2016	46	Approved	5	DSS-65 LNA NIB
DSS-55	Dec 12, 2016	Dec 16, 2016	50	Approved	5	DSS-55 LNA NIB
DSS-43	Feb 19 , 2017	Mar 3, 2017	07 – 09	Proposed	5	DLM & LNA NIB
DSS-14	Jun 19, 2017	Jun 24, 2017	25	Proposed	5	NIB to L-Band Install
DSS-25	Apr 2, 2018	Apr 7, 2018	14	Proposed	5	NIB to AZ Track Replacement XX/Ka Install

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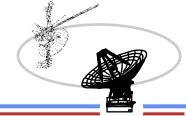


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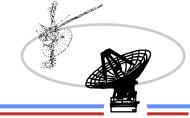


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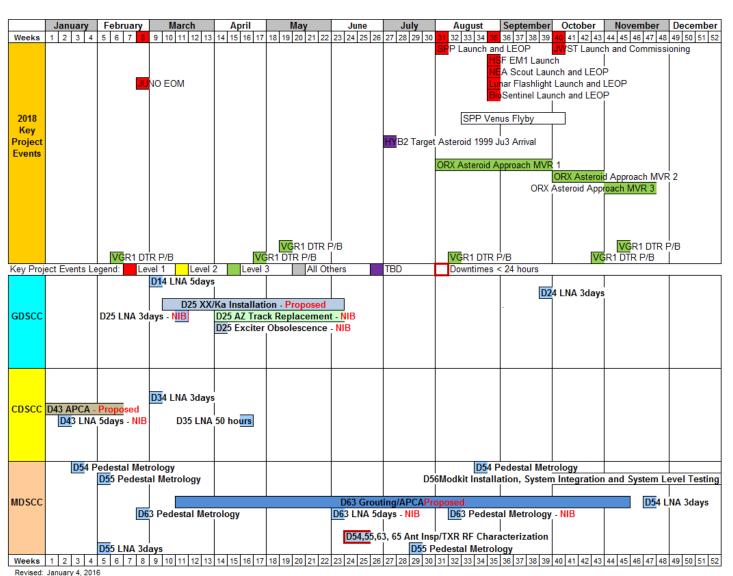
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Weeks	1 2 3 4	5 6 7 8	9 10 11 12 13	14 15 16 17	18 19 20 21	22 23 24 25 26	27 28 29 30			40 41 42 43	44 45 46 47 48	49 50 51 52
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CDSCC	_	43, 45 Ant In	Testing 14 hours Network FtS Sp/TXR RF Chai D43 LNA 5days	Ops Testing acterization Obsolescer	g 14 hours - Proposed			Testing 14 hour	s	D43 A	PCA	
MDSCC		4 Ka2 Tune- D54 Pedesta D63 P	Testing 14 hour Network FtS up al Metrology-Nic Pedestal Metrology estal Metrology	Ops Testing		_			edestal Met 5 Pedestal N	rology	3days	
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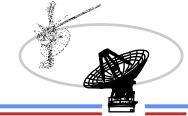


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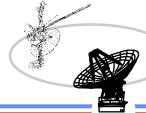
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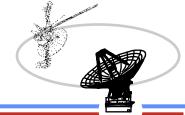
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	January	February	March	April	May 18 19 20 21 22	June	July	August	September	October	November	December
Weeks	1 2 3 4 5	6 7 8 9	10 11 12 13	14 15 16 17	18 19 20 21 22	23 24 25 26	27 28 29 30	31 32 33 34 35	36 37 38 39	40 41 42 43 44	45 46 47 48	49 50 51 52 53
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				D54 Pe	destal Rehab b	egin Novem	ber 2019 end	l d April 2021 - Pi	roposed			
MDSCC							Replacemen					
		D.50				10.				D.C.		
		D53	Modkit Insta	llation, Syste	em Integration	and System	Level Testin	ig I		D53 (Operational	
Weeks	1 2 3 4 5	6 7 8 9	10 11 12 13	14 15 16 17	18 19 20 21 22	23 24 25 26	27 28 29 30	31 32 33 34 35	36 37 38 39	40 41 42 43 44	45 46 47 48	49 50 51 52 53

- 2020 -

Resource Allocation Planning Service



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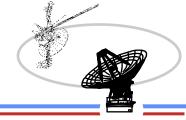
Revised: January 4, 2016

	January	February	March	April	May	June	July	August	September	October	November	December 48 49 50 51 52
Weeks	1 2 3 4 5	6 7 8 9	10 11 12 13	14 15 16 17	18 19 20 21	22 23 24 25	26 27 28 29 30	31 32 33 34	35 36 37 38 39	40 41 42 43	44 45 46 47	48 49 50 51 52
	******	Mars EDL							ORX A	Asteroid Sam	ple Return Ca	apsule Release
	MARS 2020 Ap	proach						HSF EM2 La	iunch			
		[05	V 4									
	ODD V		X Asteroid D	eparture MVR					ODDV	F1 1		
	SPP Ven	lus Flyby	l Venus Flyby						SPP Venus	Flyby		
2021		SPP	venus riyby I									
Key												
Project												
Events												
Lvents												
						L						
Key Proj	ect Events Leger	nd: Level	1 Level 2	2 Level 3	3 All	Others	TBD	Downtime	es < 24 hours			
GDSCC												
ODJCC												
CDSCC												
					D5	4,53,55,56.63	B, Ant Insp/TXR	RF Charact	erization			
							•					
	D54 Pedestal F	Rehab Begin	November 2	2019 - Propos	sed							1
MDSCC			eplacement									
		D53	Modkit Insta	llation, Syste	em Integrati	on and Syste	em Level Testin	g		D53 Ope	erational	1
Waster	4 2 2 4 5	6 7 0 0	40 44 42 42	44 45 40 47	40 40 20 24	22 22 24 25	26 27 20 20 20	24 22 22 2	25 25 27 20 20	40 44 40 40	44 45 40 47	49 40 50 54 50
Weeks	1 2 3 4 5	0 / 0 9	10 11 12 13	14 15 16 17	16 19 20 21	22 23 24 25	20 27 28 29 30	31 32 33 34	35 36 37 38 39	40 41 42 43	44 45 46 4/	48 49 50 51 52

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		2016					
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 43	LNA Maintenance	01/04/2016 00:00	01/09/2016 00:00	5	01 - 01	4	9
DSS 14	Antenna Gain Calibration	01/06/2016 23:20	01/07/2016 06:00	0	01 - 01	6	7
DSS 55	Pedestal Metrology	01/12/2016 17:25	01/13/2016 01:45	0	02 - 02	12	13
DSS 54	S-Band TXR Upgrade	01/13/2016 06:00	01/15/2016 15:00	2	02 - 02	13	15
DSS 55	Pedestal Metrology	01/13/2016 17:25	01/14/2016 01:30	0	02 - 02	13	14
DSS 14	Antenna Gain Calibration	01/14/2016 00:40	01/14/2016 10:20	0	02 - 02	14	14
DSS 63	LNA Maintenance	01/18/2016 00:00	01/23/2016 00:00	5	03 - 03	18	23
DSS 63	Shimming - NIB	01/18/2016 00:00	01/23/2016 00:00	5	03 - 03	18	23
DSS 14	LNA Maintenance - NIB	01/25/2016 00:00	01/30/2016 00:00	5	04 - 04	25	30
DSS 14	APCA	01/25/2016 15:00	05/13/2016 23:00	109	04 - 19	25	134
DSS 63	Pedestal Metrology	01/25/2016 20:00	01/26/2016 04:00	0	04 - 04	25	26
DSS 63	Pedestal Metrology	01/26/2016 20:00	01/27/2016 04:00	0	04 - 04	26	27
DSS 65	X HMT Maintenance	02/01/2016 08:00	02/03/2016 00:00	2	05 - 05	32	34
SPC 10	NMC 4 - MSPA I&T	02/08/2016 18:00	02/09/2016 02:00	0	06 - 06	39	40
DSS 54	Pedestal Metrology	02/09/2016 22:30	02/10/2016 07:15	0	06 - 06	40	41
DSS 54	Pedestal Metrology	02/10/2016 19:30	02/11/2016 03:30	0	06 - 06	41	42
DSS 55	Pedestal Metrology	02/29/2016 20:00	03/01/2016 06:00	0	09 - 09	60	61
DSS 55	Pedestal Metrology	03/01/2016 20:00	03/02/2016 07:00	0	09 - 09	61	62
SPC 40	NMC 4 - MSPA I&T	03/15/2016 21:00	03/16/2016 05:00	0	11 - 11	75	76
SPC 40	Complex Powerhouse Upgrade	03/23/2016 21:00	03/24/2016 05:00	0	12 - 12	83	84
DSS 25	LNA Maintenance	04/04/2016 00:00	04/07/2016 00:00	3	14 - 14	95	98
SPC 60	Power Plant Controller Replacement	04/06/2016 06:00	04/06/2016 14:00	0	14 - 14	97	97
SPC 40	Complex Powerhouse Upgrade	04/06/2016 21:00	04/07/2016 05:00	0	14 - 14	97	98
						Downtime I	anuarv 5. 2016



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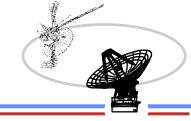
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		2016					
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
SPC 10	NMC 4 - MSPA AT	04/15/2016 15:00	04/15/2016 23:00	0	15 - 15	106	106
DSS 45	LNA Maintenance	04/25/2016 00:00	04/29/2016 00:00	4	17 - 17	116	120
SPC 60	Power Plant Controller Replacement	04/27/2016 06:00	04/27/2016 14:00	0	17 - 17	118	118
DSS 24	LNA Maintenance - NIB	05/09/2016 00:00	05/12/2016 00:00	3	19 - 19	130	133
DSS 24	Exciter Obselescence Install	05/09/2016 15:00	05/14/2016 00:00	4	19 - 19	130	135
SPC 60	NMC 4 - MSPA AT	05/14/2016 06:00	05/14/2016 14:00	0	19 - 19	135	135
DSS 63	Shimming	05/16/2016 06:00	05/27/2016 17:00	11	20 - 21	137	148
DSS 43	Mini DLM	05/16/2016 22:00	05/17/2016 10:00	0	20 - 20	137	138
DSS 34	Mini DLM	05/17/2016 22:00	05/18/2016 10:00	0	20 - 20	138	139
DSS 45	Mini DLM	05/18/2016 22:00	05/19/2016 10:00	0	20 - 20	139	140
DSS 35	Mini DLM	05/19/2016 22:00	05/20/2016 10:00	0	20 - 20	140	141
SPC 40	SWUPS Installation	05/19/2016 22:00	05/20/2016 10:00	0	20 - 20	140	141
DSS 43	Mini DLM	05/23/2016 22:00	05/24/2016 10:00	0	21 - 21	144	145
DSS 34	Mini DLM - NIB	05/24/2016 22:00	05/25/2016 10:00	0	21 - 21	145	146
SPC 40	SWUPS Installation	05/24/2016 22:00	05/25/2016 10:00	0	21 - 21	145	146
DSS 34	S-Band TXR Upgrade	05/24/2016 22:00	05/27/2016 07:00	2	21 - 21	145	148
SPC 60	Power Plant Controller Replacement	05/25/2016 06:00	05/25/2016 14:00	0	21 - 21	146	146
DSS 45	Mini DLM	05/25/2016 22:00	05/26/2016 10:00	0	21 - 21	146	147
DSS 35	Mini DLM	05/26/2016 22:00	05/27/2016 10:00	0	21 - 21	147	148
SPC 40	SWUPS Installation	05/26/2016 22:00	05/27/2016 10:00	0	21 - 21	147	148
SPC 60	NMC 4 - MSPA SOAK/Install	06/10/2016 06:00	06/10/2016 14:00	0	23 - 23	162	162
DSS 26	LNA Maintenance	06/20/2016 00:00	06/23/2016 00:00	3	25 - 25	172	175
DSS 54	Exciter Obsolescence Install	07/11/2016 06:00	07/15/2016 17:00	4	28 - 28	193	197
						Downtime I	anuarv 5. 201



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		2016					
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 54	LNA/Single Axis LOTO - NIB	07/11/2016 06:00	07/15/2016 17:00	4	28 - 28	193	197
DSS 54	Pedestal Metrology - NIB	07/11/2016 22:00	07/12/2016 05:00	0	28 - 28	193	194
DSS 54	Pedestal Metrology - NIB	07/12/2016 22:00	07/13/2016 05:00	0	28 - 28	194	195
DSS 63	Exciter Obsolescence Install-NIB	07/18/2016 06:00	07/22/2016 17:00	4	29 - 29	200	204
DSS 63	Shimming	07/18/2016 06:00	08/19/2016 17:00	32	29 - 33	200	232
SPC 10	NMC 4 -MSPA Ops Install	07/30/2016 15:00	07/30/2016 23:00	0	30 - 30	212	212
SPC 40	NMC 4 - MSPA OPs Install	08/02/2016 22:00	08/03/2016 06:00	0	31 - 31	215	216
DSS 15	LNA Maintenance - NIB	08/08/2016 00:00	08/11/2016 00:00	3	32 - 32	221	224
DSS 15	Exciter Obsolescence Install	08/08/2016 15:00	08/13/2016 00:00	4	32 - 32	221	226
DSS 63	Pedestal Metrology	08/09/2016 22:00	08/10/2016 05:00	0	32 - 32	222	223
DSS 63	Pedestal Metrology	08/10/2016 22:00	08/11/2016 05:00	0	32 - 32	223	224
DSS 55	Pedestal Metrology	08/22/2016 22:00	08/23/2016 05:00	0	34 - 34	235	236
DSS 55	Pedestal Metrology	08/23/2016 22:00	08/24/2016 05:00	0	34 - 34	236	237
DSS 45	Decommissioned	10/07/2016 00:00	01/01/2050 00:00	12139	40 - 52	281	1
DSS 34	LNA Maintenance -NIB	10/31/2016 00:00	11/03/2016 00:00	3	44 - 44	305	308
DSS 34	Ka2 Tune-up	10/31/2016 21:00	11/11/2016 06:00	10	44 - 45	305	316
SPC 40	NMC Ops Readiness	11/08/2016 21:00	11/09/2016 05:00	0	45 - 45	313	314
SPC 60	NMC Ops Readiness	11/10/2016 06:00	11/10/2016 14:00	0	45 - 45	315	315
DSS 65	LNA Maintenance - NIB	11/14/2016 00:00	11/18/2016 00:00	4	46 - 46	319	323
DSS 65	Exciter Obselescence Install	11/14/2016 06:00	11/19/2016 17:00	5	46 - 46	319	324
SPC 10	NMC Ops Readiness	11/18/2016 16:00	11/19/2016 00:00	0	46 - 46	323	324
GCF 20	NMC Ops Readiness	11/18/2016 16:00	11/19/2016 00:00	0	46 - 46	323	324
DSS 35	LNA Maintenance	12/05/2016 00:00	12/08/2016 00:00	3	49 - 49	340	343
						Downtime J	anuary 5, 2016



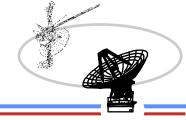
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		2016					
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 55	LNA Maintenance - NIB	12/12/2016 00:00	12/16/2016 00:00	4	50 - 50	347	351
DSS 55	Exciter Obsolescence Install	12/12/2016 06:00	12/17/2016 17:00	5	50 - 50	347	352



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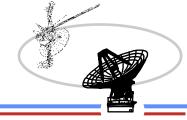


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		2017					
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 43	Ant Insp/TXR RF Characterization - Proposed	01/09/2017 22:00	01/10/2017 10:00	0	02 - 02	9	10
DSS 34	Ant Insp/TXR RF Characterization - Proposed	01/10/2017 22:00	01/11/2017 10:00	0	02 - 02	10	11
DSS 45	Ant Insp/TXR RF Characterization - Proposed	01/11/2017 22:00	01/12/2017 10:00	0	02 - 02	11	12
DSS 35	Ant Insp/TXR RF Characterization - Proposed	01/12/2017 22:00	01/13/2017 10:00	0	02 - 02	12	13
DSS 43	Ant Insp/TXR RF Characterization - Proposed	01/16/2017 22:00	01/17/2017 10:00	0	03 - 03	16	17
DSS 34	Ant Insp/TXR RF Characterization - Proposed	01/17/2017 22:00	01/18/2017 10:00	0	03 - 03	17	18
DSS 45	Ant Insp/TXR RF Characterization - Proposed	01/18/2017 22:00	01/19/2017 10:00	0	03 - 03	18	19
DSS 35	Ant Insp/TXR RF Characterization - Proposed	01/19/2017 22:00	01/20/2017 10:00	0	03 - 03	19	20
SPC 60	Follow the Sun Ops Testing	01/21/2017 14:00	01/22/2017 02:00	0	03 - 03	21	22
SPC 40	Follow the Sun Ops Testing	01/21/2017 14:00	01/22/2017 02:00	0	03 - 03	21	22
SPC 10	Follow the Sun Ops Testing	01/21/2017 14:00	01/22/2017 02:00	0	03 - 03	21	22
DSS 54	Ka2 Tune-up	01/23/2017 07:00	02/03/2017 17:00	11	04 - 05	23	34
DSS 54	Pedestal Metrology	01/30/2017 20:00	01/31/2017 07:00	0	05 - 05	30	31
DSS 54	Pedestal Metrology	01/31/2017 20:00	02/01/2017 07:00	0	05 - 05	31	32
DSS 55	Pedestal Metrology	02/06/2017 20:00	02/07/2017 07:00	0	06 - 06	37	38
DSS 55	Pedestal Metrology	02/07/2017 20:00	02/08/2017 07:00	0	06 - 06	38	39
DSS 63	Pedestal Metrology	02/13/2017 20:00	02/14/2017 07:00	0	07 - 07	44	45
DSS 63	Pedestal Metrology	02/14/2017 20:00	02/15/2017 07:00	0	07 - 07	45	46
DSS 43	DLM & Exciter Obsolescence Install	02/19/2017 21:00	03/03/2017 21:00	12	07 - 09	50	62
DSS 43	LNA - NIB	02/26/2017 21:00	03/03/2017 21:00	5	08 - 09	57	62
SPC 10	Follow the Sun Ops Testing	03/09/2017 12:00	03/10/2017 00:00	0	10 - 10	68	69
SPC 40	Follow the Sun Ops Testing	03/09/2017 12:00	03/10/2017 00:00	0	10 - 10	68	69
SPC 60	Follow the Sun Ops Testing	03/09/2017 12:00	03/10/2017 00:00	0	10 - 10	68	69
						B	anuary 5 2016



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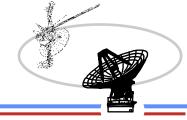


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DSS 14 DLM & DSS 63 LNA M SPC 10 Follow SPC 60 Follow SPC 40 Follow DSS 25 LNA M	Details une-up - Proposed k LNA Maintenance Maintanance v the Sun Ops SOAK v the Sun Ops SOAK v the Sun Ops SOAK Maintenance	05/13/2017 12:00 05/13/2017 12:00	04/07/2017 23:00 05/13/2017 00:00 05/14/2017 02:00	Duration (Days) 11 12 5	Weeks 11 - 12 13 - 14 19 - 19	72 86 128	84 97 133
DSS 14 DLM & DSS 63 LNA M SPC 10 Follow SPC 60 Follow SPC 40 Follow DSS 25 LNA M	k LNA Maintenance Maintanance v the Sun Ops SOAK v the Sun Ops SOAK v the Sun Ops SOAK	03/27/2017 00:00 05/08/2017 00:00 05/13/2017 12:00 05/13/2017 12:00	04/07/2017 23:00 05/13/2017 00:00 05/14/2017 02:00	12 5	13 - 14 19 - 19	86	97
DSS 63 LNA M SPC 10 Follow SPC 60 Follow SPC 40 Follow DSS 25 LNA M	Vaintanance v the Sun Ops SOAK v the Sun Ops SOAK v the Sun Ops SOAK	05/08/2017 00:00 05/13/2017 12:00 05/13/2017 12:00	05/13/2017 00:00 05/14/2017 02:00	5	19 - 19		
SPC 10 Follow SPC 60 Follow SPC 40 Follow DSS 25 LNA M	v the Sun Ops SOAK v the Sun Ops SOAK v the Sun Ops SOAK	05/13/2017 12:00 05/13/2017 12:00	05/14/2017 02:00			128	133
SPC 60 Follow SPC 40 Follow DSS 25 LNA M	v the Sun Ops SOAK v the Sun Ops SOAK	05/13/2017 12:00		1	10 10		100
SPC 40 Follow DSS 25 LNA M	v the Sun Ops SOAK	· ·	05/14/2017 02:00		19 - 19	133	134
DSS 25 LNA M		! !	05/14/2017 02:00	1	19 - 19	133	134
	Asintonanco	05/13/2017 12:00	05/14/2017 02:00	1	19 - 19	133	134
D00.44 5	latification	05/30/2017 00:00	06/02/2017 00:00	3	22 - 22	150	153
DSS 14 Excited	r Obsolescence - NIB	06/19/2017 15:00	06/24/2017 23:00	5	25 - 25	170	175
DSS 14 Transn	mitter Controller Replacement	06/19/2017 15:00	06/30/2017 23:00	11	25 - 26	170	181
SPC 10 Follow	v the Sun Ops Testing	06/22/2017 12:00	06/23/2017 02:00	1	25 - 25	173	174
SPC 40 Follow	v the Sun Ops Testing	06/22/2017 12:00	06/23/2017 02:00	1	25 - 25	173	174
SPC 60 Follow	v the Sun Ops Testing	06/22/2017 12:00	06/23/2017 02:00	1	25 - 25	173	174
DSS 24 LNA M	Naintenance	07/03/2017 00:00	07/06/2017 00:00	3	27 - 27	184	187
DSS 54 Pedes	stal Metrology	08/07/2017 22:00	08/08/2017 05:00	0	32 - 32	219	220
DSS 54 Pedes	stal Metrology	08/08/2017 22:00	08/09/2017 05:00	0	32 - 32	220	221
DSS 63 Pedes	stal Metrology	08/21/2017 22:00	08/22/2017 05:00	0	34 - 34	233	234
DSS 63 Pedes	stal Metrology	08/22/2017 22:00	08/23/2017 05:00	0	34 - 34	234	235
DSS 55 Pedes	stal Metrology	08/28/2017 22:00	08/29/2017 05:00	0	35 - 35	240	241
DSS 55 Pedes	stal Metrology	08/29/2017 22:00	08/30/2017 05:00	0	35 - 35	241	242
DSS 26 S-Band	d Install	09/04/2017 15:00	10/20/2017 02:00	45	36 - 42	247	293
DSS 15 Decom	nmissioned	10/01/2017 00:00	01/01/2050 00:00	11780	39 - 52	274	1
DSS 54 LNA M	Naintenance	10/09/2017 00:00	10/12/2017 00:00	3	41 - 41	282	285
DSS 43 APCA	- Proposed	10/16/2017 21:00	02/09/2018 06:00	115	42 - 06	289	40



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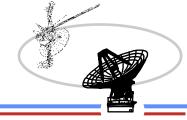


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		2018					
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 43	LNA Maintenance	01/08/2018 21:00	01/13/2018 21:00	5	02 - 02	8	13
DSS 54	Pedestal Metrology	01/15/2018 20:00	01/16/2018 07:00	0	03 - 03	15	16
DSS 54	Pedestal Metrology	01/16/2018 20:00	01/17/2018 07:00	0	03 - 03	16	17
DSS 55	LNA Maintenance	01/29/2018 00:00	02/03/2018 00:00	5	05 - 05	29	34
DSS 55	Pedestal Metrology	01/29/2018 20:00	01/30/2018 07:00	0	05 - 05	29	30
DSS 55	Pedestal Metrology	01/30/2018 20:00	01/31/2018 07:00	0	05 - 05	30	31
DSS 63	Pedestal Metrology	02/19/2018 20:00	02/20/2018 07:00	0	08 - 08	50	51
DSS 63	Pedestal Metrology	02/20/2018 20:00	02/21/2018 07:00	0	08 - 08	51	52
DSS 14	LNA Maintenance	02/26/2018 00:00	02/26/2018 23:00	1	09 - 09	57	57
DSS 34	LNA Maintenance	02/26/2018 21:00	03/01/2018 21:00	3	09 - 09	57	60
DSS 25	XX/Ka Installation	03/06/2018 15:00	06/08/2018 00:00	93	10 - 23	65	159
DSS 63	Grouting/APCA	03/12/2018 06:00	11/09/2018 17:00	242	11 - 45	71	313
DSS 25	Exciter Obsolescence Install-NIB	04/02/2018 15:00	04/07/2018 00:00	4	14 - 14	92	97
DSS 25	AZ Track Replacement - NIB	04/02/2018 15:00	06/08/2018 00:00	66	14 - 23	92	159
DSS 35	LNA Maintenance	04/16/2018 21:00	04/19/2018 21:00	3	16 - 16	106	109
DSS 63	LNA Maintenance	06/04/2018 00:00	06/09/2018 00:00	5	23 - 23	155	160
DSS 55	Ant Insp/TXR RF Characterization	06/11/2018 07:00	06/11/2018 19:00	0	24 - 24	162	162
DSS 65	Ant Insp/TXR RF Characterization	06/12/2018 07:00	06/12/2018 19:00	0	24 - 24	163	163
DSS 63	Ant Insp/TXR RF Characterization	06/13/2018 07:00	06/13/2018 19:00	0	24 - 24	164	164
DSS 54	Ant Insp/TXR RF Characterization	06/14/2018 07:00	06/14/2018 19:00	0	24 - 24	165	165
DSS 55	Ant Insp/TXR RF Characterization	06/18/2018 07:00	06/18/2018 19:00	0	25 - 25	169	169
DSS 65	Ant Insp/TXR RF Characterization	06/19/2018 07:00	06/19/2018 19:00	0	25 - 25	170	170



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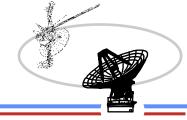
	2018										
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY				
DSS 63	Ant Insp/TXR RF Characterization	06/20/2018 07:00	06/20/2018 19:00	0	25 - 25	171	171				
DSS 54	Ant Insp/TXR RF Characterization	06/21/2018 07:00	06/21/2018 19:00	0	25 - 25	172	172				
DSS 55	Pedestal Metrology	07/16/2018 22:00	07/17/2018 05:00	0	29 - 29	197	198				
DSS 55	Pedestal Metrology	07/17/2018 22:00	07/18/2018 05:00	0	29 - 29	198	199				
DSS 63	Pedestal Metrology	08/06/2018 22:00	08/07/2018 05:00	0	32 - 32	218	219				
DSS 63	Pedestal Metrology	08/07/2018 22:00	08/08/2018 05:00	0	32 - 32	219	220				
DSS 54	Pedestal Metrology	08/20/2018 22:00	08/21/2018 05:00	0	34 - 34	232	233				
DSS 54	Pedestal Metrology	08/21/2018 22:00	08/22/2018 05:00	0	34 - 34	233	234				
DSS 24	LNA Maintenance	09/24/2018 00:00	09/27/2018 00:00	3	39 - 39	267	270				
DSS 54	LNA Maintenance	11/19/2018 00:00	11/22/2018 00:00	3	47 - 47	323	326				



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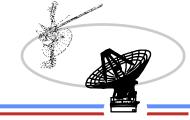
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Site Details Start End Duration (Days) Weeks Start DOV End DOY DSS 54 Pedestal Metrology 01/22/2019 20:00 01/23/2019 07:00 0 04 - 04 22 23 DSS 54 Pedestal Metrology 02/03/2019 20:00 02/04/2019 07:00 0 04 - 04 23 24 DSS 63 Pedestal Metrology 02/03/2019 15:00 02/04/2019 00:00 80 06 - 17 35 116 DSS 63 Pedestal Metrology 02/04/2019 20:00 02/05/2019 07:00 0 06 - 06 35 36 DSS 55 Pedestal Metrology 02/18/2019 20:00 02/19/2019 07:00 0 06 - 06 35 36 DSS 56 Pedestal Metrology 02/18/2019 20:00 02/20/2019 07:00 0 08 - 08 49 50 DSS 54 LNA Maintenance 03/04/2019 21:00 03/09/2019 21:00 5 10 - 10 63 68 DSS 34 LNA Maintenance 05/06/2019 00:00 05/10/2019 23:00 5 19 - 19 126 <td< th=""><th colspan="11">2019</th></td<>	2019										
DSS 54 Pedestal Metrology 01/23/2019 20:00 01/24/2019 07:00 0 04 - 04 23 24 DSS 63 Pedestal Metrology 02/03/2019 20:00 02/04/2019 07:00 0 05 - 06 34 35 DSS 24 XX/Ka Installation - Proposed 02/04/2019 15:00 04/26/2019 00:00 80 06 - 17 35 116 DSS 63 Pedestal Metrology 02/04/2019 20:00 02/05/2019 07:00 0 06 - 06 35 36 DSS 55 Pedestal Metrology 02/19/2019 20:00 02/19/2019 07:00 0 08 - 08 49 50 DSS 56 Pedestal Metrology 02/19/2019 20:00 02/19/2019 07:00 0 08 - 08 50 51 DSS 43 LNA Maintenance 03/04/2019 21:00 03/09/2019 21:00 5 10 - 10 63 68 DSS 34 LNA Maintenance 04/29/2019 21:00 05/02/2019 21:00 3 18 - 18 119 122 DSS 14 LNA Maintenance 05/06/2019 00:00 05/10/2019 23:00 5 19 - 19 <	Site	Details	Start	End		Weeks	Start DOY	End DOY			
DSS 63 Pedestal Metrology 02/03/2019 20:00 02/04/2019 07:00 0 05 - 06 34 35 DSS 24 XX/Ka Installation - Proposed 02/04/2019 15:00 04/26/2019 00:00 80 06 - 17 35 116 DSS 63 Pedestal Metrology 02/04/2019 20:00 02/05/2019 07:00 0 06 - 06 35 36 DSS 55 Pedestal Metrology 02/18/2019 20:00 02/19/2019 07:00 0 08 - 08 49 50 DSS 56 Pedestal Metrology 02/19/2019 20:00 02/20/2019 07:00 0 08 - 08 50 51 DSS 56 Pedestal Metrology 02/19/2019 20:00 02/20/2019 07:00 0 08 - 08 50 51 DSS 54 LNA Maintenance 03/04/2019 21:00 03/09/2019 21:00 5 10 - 10 63 68 DSS 34 LNA Maintenance 04/29/2019 21:00 05/02/2019 21:00 5 10 - 10 63 68 DSS 14 LNA Maintenance 05/06/2019 00:00 05/10/2019 20:00 05/10/2019 20:00 5	DSS 54	Pedestal Metrology	01/22/2019 20:00	01/23/2019 07:00	0	04 - 04	22	23			
DSS 24 XX/Ka Installation - Proposed 02/04/2019 15:00 04/26/2019 00:00 80 06 - 17 35 116 DSS 63 Pedestal Metrology 02/04/2019 20:00 02/05/2019 07:00 0 06 - 06 35 36 DSS 55 Pedestal Metrology 02/18/2019 20:00 02/19/2019 07:00 0 08 - 08 49 50 DSS 56 Pedestal Metrology 02/19/2019 20:00 02/20/2019 07:00 0 08 - 08 50 51 DSS 43 LNA Maintenance 03/04/2019 21:00 05/02/2019 21:00 5 10 - 10 63 68 DSS 34 LNA Maintenance 04/29/2019 21:00 05/02/2019 21:00 3 18 - 18 119 122 DSS 14 LNA Maintenance 05/06/2019 00:00 05/10/2019 23:00 5 19 - 19 126 130 DSS 15 LNA Maintenance 05/20/2019 00:00 05/21/2019 00:00 05/21/2019 00:00 3 21 - 21 140 143 DSS 14 Ant Insp/TXR RF Characterization - Proposed 05/20/2019 15:00 05/21/2019 03:0	DSS 54	Pedestal Metrology	01/23/2019 20:00	01/24/2019 07:00	0	04 - 04	23	24			
DSS 63 Pedestal Metrology 02/04/2019 20:00 02/05/2019 07:00 0 06 - 06 35 36 DSS 55 Pedestal Metrology 02/18/2019 20:00 02/19/2019 07:00 0 08 - 08 49 50 DSS 56 Pedestal Metrology 02/19/2019 20:00 02/20/2019 07:00 0 08 - 08 50 51 DSS 43 LNA Maintenance 03/04/2019 21:00 05/02/2019 21:00 5 10 - 10 63 68 DSS 34 LNA Maintenance 04/29/2019 21:00 05/02/2019 21:00 3 18 - 18 119 122 DSS 14 LNA Maintenance 05/06/2019 00:00 05/10/2019 23:00 5 19 - 19 126 130 DSS 55 LNA Maintenance 05/20/2019 00:00 05/23/2019 00:00 3 21 - 21 140 143 DSS 14 Ant Insp/TXR RF Characterization - Proposed 05/20/2019 15:00 05/21/2019 03:00 0 21 - 21 140 141 DSS 26 Ant Insp/TXR RF Characterization - Proposed 05/22/2019 15:00 05/23/2019 03:00 0	DSS 63	Pedestal Metrology	02/03/2019 20:00	02/04/2019 07:00	0	05 - 06	34	35			
DSS 55 Pedestal Metrology 02/18/2019 20:00 02/19/2019 07:00 0 08 - 08 49 50 DSS 56 Pedestal Metrology 02/19/2019 20:00 02/20/2019 07:00 0 08 - 08 50 51 DSS 43 LNA Maintenance 03/04/2019 21:00 03/09/2019 21:00 5 10 - 10 63 68 DSS 34 LNA Maintenance 04/29/2019 21:00 05/02/2019 21:00 3 18 - 18 119 122 DSS 14 LNA Maintenance 05/06/2019 00:00 05/10/2019 23:00 5 19 - 19 126 130 DSS 55 LNA Maintenance 05/20/2019 00:00 05/23/2019 00:00 3 21 - 21 140 143 DSS 14 Ant Insp/TXR RF Characterization - Proposed 05/20/2019 15:00 05/21/2019 03:00 0 21 - 21 140 141 DSS 26 Ant Insp/TXR RF Characterization - Proposed 05/22/2019 15:00 05/23/2019 03:00 0 21 - 21 141 142 DSS 24 Ant Insp/TXR RF Characterization - Proposed 05/23/2019 15:00 05/24/20	DSS 24	XX/Ka Installation - Proposed	02/04/2019 15:00	04/26/2019 00:00	80	06 - 17	35	116			
DSS 56 Pedestal Metrology 02/19/2019 20:00 02/20/2019 07:00 0 08 - 08 50 51 DSS 43 LNA Maintenance 03/04/2019 21:00 03/09/2019 21:00 5 10 - 10 63 68 DSS 34 LNA Maintenance 04/29/2019 21:00 05/02/2019 21:00 3 18 - 18 119 122 DSS 14 LNA Maintenance 05/06/2019 00:00 05/10/2019 23:00 5 19 - 19 126 130 DSS 55 LNA Maintenance 05/20/2019 00:00 05/23/2019 00:00 3 21 - 21 140 143 DSS 14 Ant Insp/TXR RF Characterization - Proposed 05/20/2019 15:00 05/21/2019 03:00 0 21 - 21 140 141 DSS 26 Ant Insp/TXR RF Characterization - Proposed 05/21/2019 15:00 05/22/2019 03:00 0 21 - 21 141 142 DSS 25 Ant Insp/TXR RF Characterization - Proposed 05/22/2019 15:00 05/23/2019 03:00 0 21 - 21 142 143 DSS 24 Ant Insp/TXR RF Characterization - Proposed 05/27/2019 15:0	DSS 63	Pedestal Metrology	02/04/2019 20:00	02/05/2019 07:00	0	06 - 06	35	36			
DSS 43 LNA Maintenance 03/04/2019 21:00 03/09/2019 21:00 5 10 - 10 63 68 DSS 34 LNA Maintenance 04/29/2019 21:00 05/02/2019 21:00 3 18 - 18 119 122 DSS 14 LNA Maintenance 05/06/2019 00:00 05/10/2019 23:00 5 19 - 19 126 130 DSS 55 LNA Maintenance 05/20/2019 00:00 05/23/2019 00:00 3 21 - 21 140 143 DSS 14 Ant Insp/TXR RF Characterization - Proposed 05/20/2019 15:00 05/21/2019 03:00 0 21 - 21 140 141 DSS 26 Ant Insp/TXR RF Characterization - Proposed 05/21/2019 15:00 05/22/2019 03:00 0 21 - 21 141 142 DSS 25 Ant Insp/TXR RF Characterization - Proposed 05/22/2019 15:00 05/23/2019 03:00 0 21 - 21 142 143 DSS 24 Ant Insp/TXR RF Characterization - Proposed 05/23/2019 15:00 05/24/2019 03:00 0 21 - 21 143 144 DSS 26 Ant Insp/TXR RF Characterization - Proposed	DSS 55	Pedestal Metrology	02/18/2019 20:00	02/19/2019 07:00	0	08 - 08	49	50			
DSS 34 LNA Maintenance 04/29/2019 21:00 05/02/2019 21:00 3 18 - 18 119 122 DSS 14 LNA Maintenance 05/06/2019 00:00 05/10/2019 23:00 5 19 - 19 126 130 DSS 55 LNA Maintenance 05/20/2019 00:00 05/23/2019 00:00 3 21 - 21 140 143 DSS 14 Ant Insp/TXR RF Characterization - Proposed 05/20/2019 15:00 05/21/2019 03:00 0 21 - 21 140 141 DSS 26 Ant Insp/TXR RF Characterization - Proposed 05/21/2019 15:00 05/22/2019 03:00 0 21 - 21 141 142 DSS 25 Ant Insp/TXR RF Characterization - Proposed 05/22/2019 15:00 05/23/2019 03:00 0 21 - 21 142 143 DSS 24 Ant Insp/TXR RF Characterization - Proposed 05/27/2019 15:00 05/28/2019 03:00 0 22 - 22 147 148 DSS 26 Ant Insp/TXR RF Characterization - Proposed 05/27/2019 15:00 05/28/2019 03:00 0 22 - 22 147 148 DSS 25 Ant Insp/TXR RF Cha	DSS 56	Pedestal Metrology	02/19/2019 20:00	02/20/2019 07:00	0	08 - 08	50	51			
DSS 14 LNA Maintenance 05/06/2019 00:00 05/10/2019 23:00 5 19 - 19 126 130 DSS 55 LNA Maintenance 05/20/2019 00:00 05/23/2019 00:00 3 21 - 21 140 143 DSS 14 Ant Insp/TXR RF Characterization - Proposed 05/20/2019 15:00 05/21/2019 03:00 0 21 - 21 140 141 DSS 26 Ant Insp/TXR RF Characterization - Proposed 05/21/2019 15:00 05/22/2019 03:00 0 21 - 21 141 142 DSS 25 Ant Insp/TXR RF Characterization - Proposed 05/22/2019 15:00 05/23/2019 03:00 0 21 - 21 142 143 DSS 24 Ant Insp/TXR RF Characterization - Proposed 05/27/2019 15:00 05/24/2019 03:00 0 21 - 21 143 144 DSS 14 Ant Insp/TXR RF Characterization - Proposed 05/27/2019 15:00 05/28/2019 03:00 0 22 - 22 147 148 DSS 25 Ant Insp/TXR RF Characterization - Proposed 05/28/2019 15:00 05/29/2019 03:00 0 22 - 22 147 148 DSS 25	DSS 43	LNA Maintenance	03/04/2019 21:00	03/09/2019 21:00	5	10 - 10	63	68			
DSS 55 LNA Maintenance 05/20/2019 00:00 05/23/2019 00:00 3 21 - 21 140 143 DSS 14 Ant Insp/TXR RF Characterization - Proposed 05/20/2019 15:00 05/21/2019 03:00 0 21 - 21 140 141 DSS 26 Ant Insp/TXR RF Characterization - Proposed 05/21/2019 15:00 05/22/2019 03:00 0 21 - 21 141 142 DSS 25 Ant Insp/TXR RF Characterization - Proposed 05/22/2019 15:00 05/23/2019 03:00 0 21 - 21 142 143 DSS 24 Ant Insp/TXR RF Characterization - Proposed 05/27/2019 15:00 05/28/2019 03:00 0 21 - 21 143 144 DSS 24 Ant Insp/TXR RF Characterization - Proposed 05/27/2019 15:00 05/28/2019 03:00 0 22 - 22 147 148 DSS 25 Ant Insp/TXR RF Characterization - Proposed 05/28/2019 15:00 05/29/2019 03:00 0 22 - 22 148 149 DSS 25 Ant Insp/TXR RF Characterization - Proposed 05/29/2019 15:00 05/30/2019 03:00 0 22 - 22 149 150	DSS 34	LNA Maintenance	04/29/2019 21:00	05/02/2019 21:00	3	18 - 18	119	122			
DSS 14 Ant Insp/TXR RF Characterization - Proposed 05/20/2019 15:00 05/21/2019 03:00 0 21 - 21 140 141 DSS 26 Ant Insp/TXR RF Characterization - Proposed 05/21/2019 15:00 05/22/2019 03:00 0 21 - 21 141 142 DSS 25 Ant Insp/TXR RF Characterization - Proposed 05/22/2019 15:00 05/23/2019 03:00 0 21 - 21 142 143 DSS 24 Ant Insp/TXR RF Characterization - Proposed 05/23/2019 15:00 05/24/2019 03:00 0 21 - 21 143 144 DSS 14 Ant Insp/TXR RF Characterization - Proposed 05/27/2019 15:00 05/28/2019 03:00 0 22 - 22 147 148 DSS 26 Ant Insp/TXR RF Characterization - Proposed 05/28/2019 15:00 05/29/2019 03:00 0 22 - 22 148 149 DSS 25 Ant Insp/TXR RF Characterization - Proposed 05/29/2019 15:00 05/30/2019 03:00 0 22 - 22 149 150 DSS 24 Ant Insp/TXR RF Characterization - Proposed 05/30/2019 15:00 05/31/2019 03:00 0 22 - 22 150 <td< td=""><td>DSS 14</td><td>LNA Maintenance</td><td>05/06/2019 00:00</td><td>05/10/2019 23:00</td><td>5</td><td>19 - 19</td><td>126</td><td>130</td></td<>	DSS 14	LNA Maintenance	05/06/2019 00:00	05/10/2019 23:00	5	19 - 19	126	130			
DSS 26 Ant Insp/TXR RF Characterization - Proposed 05/21/2019 15:00 05/22/2019 03:00 0 21 - 21 141 142 DSS 25 Ant Insp/TXR RF Characterization - Proposed 05/22/2019 15:00 05/23/2019 03:00 0 21 - 21 142 143 DSS 24 Ant Insp/TXR RF Characterization - Proposed 05/23/2019 15:00 05/24/2019 03:00 0 21 - 21 143 144 DSS 14 Ant Insp/TXR RF Characterization - Proposed 05/27/2019 15:00 05/28/2019 03:00 0 22 - 22 147 148 DSS 26 Ant Insp/TXR RF Characterization - Proposed 05/28/2019 15:00 05/29/2019 03:00 0 22 - 22 148 149 DSS 25 Ant Insp/TXR RF Characterization - Proposed 05/29/2019 15:00 05/30/2019 03:00 0 22 - 22 149 150 DSS 24 Ant Insp/TXR RF Characterization - Proposed 05/30/2019 15:00 05/31/2019 03:00 0 22 - 22 150 151 DSS 35 LNA Maintenance 06/03/2019 21:00 06/06/2019 21:00 3 23 - 23 154 157	DSS 55	LNA Maintenance	05/20/2019 00:00	05/23/2019 00:00	3	21 - 21	140	143			
DSS 25 Ant Insp/TXR RF Characterization - Proposed 05/22/2019 15:00 05/23/2019 03:00 0 21 - 21 142 143 DSS 24 Ant Insp/TXR RF Characterization - Proposed 05/23/2019 15:00 05/24/2019 03:00 0 21 - 21 143 144 DSS 14 Ant Insp/TXR RF Characterization - Proposed 05/27/2019 15:00 05/28/2019 03:00 0 22 - 22 147 148 DSS 26 Ant Insp/TXR RF Characterization - Proposed 05/28/2019 15:00 05/29/2019 03:00 0 22 - 22 148 149 DSS 25 Ant Insp/TXR RF Characterization - Proposed 05/29/2019 15:00 05/30/2019 03:00 0 22 - 22 149 150 DSS 24 Ant Insp/TXR RF Characterization - Proposed 05/30/2019 15:00 05/31/2019 03:00 0 22 - 22 149 150 DSS 35 LNA Maintenance 06/03/2019 21:00 06/06/2019 21:00 3 23 - 23 154 157 DSS 63 LNA Maintenance 07/29/2019 00:00 08/03/2019 00:00 5 31 - 31 210 215	DSS 14	Ant Insp/TXR RF Characterization - Proposed	05/20/2019 15:00	05/21/2019 03:00	0	21 - 21	140	141			
DSS 24 Ant Insp/TXR RF Characterization - Proposed 05/23/2019 15:00 05/24/2019 03:00 0 21 - 21 143 144 DSS 14 Ant Insp/TXR RF Characterization - Proposed 05/27/2019 15:00 05/28/2019 03:00 0 22 - 22 147 148 DSS 26 Ant Insp/TXR RF Characterization - Proposed 05/28/2019 15:00 05/29/2019 03:00 0 22 - 22 148 149 DSS 25 Ant Insp/TXR RF Characterization - Proposed 05/29/2019 15:00 05/30/2019 03:00 0 22 - 22 149 150 DSS 24 Ant Insp/TXR RF Characterization - Proposed 05/30/2019 15:00 05/31/2019 03:00 0 22 - 22 150 151 DSS 35 LNA Maintenance 06/03/2019 21:00 06/06/2019 21:00 3 23 - 23 154 157 DSS 25 LNA Maintenance 06/10/2019 00:00 06/13/2019 00:00 3 24 - 24 161 164 DSS 63 LNA Maintenance 07/29/2019 00:00 08/03/2019 00:00 5 31 - 31 210 215	DSS 26	Ant Insp/TXR RF Characterization - Proposed	05/21/2019 15:00	05/22/2019 03:00	0	21 - 21	141	142			
DSS 14 Ant Insp/TXR RF Characterization - Proposed 05/27/2019 15:00 05/28/2019 03:00 0 22 - 22 147 148 DSS 26 Ant Insp/TXR RF Characterization - Proposed 05/28/2019 15:00 05/29/2019 03:00 0 22 - 22 148 149 DSS 25 Ant Insp/TXR RF Characterization - Proposed 05/29/2019 15:00 05/30/2019 03:00 0 22 - 22 149 150 DSS 24 Ant Insp/TXR RF Characterization - Proposed 05/30/2019 15:00 05/31/2019 03:00 0 22 - 22 150 151 DSS 35 LNA Maintenance 06/03/2019 21:00 06/06/2019 21:00 3 23 - 23 154 157 DSS 25 LNA Maintenance 06/10/2019 00:00 06/13/2019 00:00 3 24 - 24 161 164 DSS 63 LNA Maintenance 07/29/2019 00:00 08/03/2019 00:00 5 31 - 31 210 215	DSS 25	Ant Insp/TXR RF Characterization - Proposed	05/22/2019 15:00	05/23/2019 03:00	0	21 - 21	142	143			
DSS 26 Ant Insp/TXR RF Characterization - Proposed 05/28/2019 15:00 05/29/2019 03:00 0 22 - 22 148 149 DSS 25 Ant Insp/TXR RF Characterization - Proposed 05/29/2019 15:00 05/30/2019 03:00 0 22 - 22 149 150 DSS 24 Ant Insp/TXR RF Characterization - Proposed 05/30/2019 15:00 05/31/2019 03:00 0 22 - 22 150 151 DSS 35 LNA Maintenance 06/03/2019 21:00 06/06/2019 21:00 3 23 - 23 154 157 DSS 25 LNA Maintenance 06/10/2019 00:00 06/13/2019 00:00 3 24 - 24 161 164 DSS 63 LNA Maintenance 07/29/2019 00:00 08/03/2019 00:00 5 31 - 31 210 215	DSS 24	Ant Insp/TXR RF Characterization - Proposed	05/23/2019 15:00	05/24/2019 03:00	0	21 - 21	143	144			
DSS 25 Ant Insp/TXR RF Characterization - Proposed 05/29/2019 15:00 05/30/2019 03:00 0 22 - 22 149 150 DSS 24 Ant Insp/TXR RF Characterization - Proposed 05/30/2019 15:00 05/31/2019 03:00 0 22 - 22 150 151 DSS 35 LNA Maintenance 06/03/2019 21:00 06/06/2019 21:00 3 23 - 23 154 157 DSS 25 LNA Maintenance 06/10/2019 00:00 06/13/2019 00:00 3 24 - 24 161 164 DSS 63 LNA Maintenance 07/29/2019 00:00 08/03/2019 00:00 5 31 - 31 210 215	DSS 14	Ant Insp/TXR RF Characterization - Proposed	05/27/2019 15:00	05/28/2019 03:00	0	22 - 22	147	148			
DSS 24 Ant Insp/TXR RF Characterization - Proposed 05/30/2019 15:00 05/31/2019 03:00 0 22 - 22 150 151 DSS 35 LNA Maintenance 06/03/2019 21:00 06/06/2019 21:00 3 23 - 23 154 157 DSS 25 LNA Maintenance 06/10/2019 00:00 06/13/2019 00:00 3 24 - 24 161 164 DSS 63 LNA Maintenance 07/29/2019 00:00 08/03/2019 00:00 5 31 - 31 210 215	DSS 26	Ant Insp/TXR RF Characterization - Proposed	05/28/2019 15:00	05/29/2019 03:00	0	22 - 22	148	149			
DSS 35 LNA Maintenance 06/03/2019 21:00 06/06/2019 21:00 3 23 - 23 154 157 DSS 25 LNA Maintenance 06/10/2019 00:00 06/13/2019 00:00 3 24 - 24 161 164 DSS 63 LNA Maintenance 07/29/2019 00:00 08/03/2019 00:00 5 31 - 31 210 215	DSS 25	Ant Insp/TXR RF Characterization - Proposed	05/29/2019 15:00	05/30/2019 03:00	0	22 - 22	149	150			
DSS 25 LNA Maintenance 06/10/2019 00:00 06/13/2019 00:00 3 24 - 24 161 164 DSS 63 LNA Maintenance 07/29/2019 00:00 08/03/2019 00:00 5 31 - 31 210 215	DSS 24	Ant Insp/TXR RF Characterization - Proposed	05/30/2019 15:00	05/31/2019 03:00	0	22 - 22	150	151			
DSS 63 LNA Maintenance 07/29/2019 00:00 08/03/2019 00:00 5 31 - 31 210 215	DSS 35	LNA Maintenance	06/03/2019 21:00	06/06/2019 21:00	3	23 - 23	154	157			
	DSS 25	LNA Maintenance	06/10/2019 00:00	06/13/2019 00:00	3	24 - 24	161	164			
DSS 63 Pedestal Metrology - NIB 07/29/2019 22:00 07/30/2019 05:00 0 31 - 31 210 211	DSS 63	LNA Maintenance	07/29/2019 00:00	08/03/2019 00:00	5	31 - 31	210	215			
	DSS 63	Pedestal Metrology - NIB	07/29/2019 22:00	07/30/2019 05:00	0	31 - 31	210	211			



Resource Allocation Planning Service

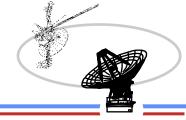


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	2019										
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY				
DSS 63	Pedestal Metrology - NIB	07/30/2019 22:00	07/31/2019 05:00	0	31 - 31	211	212				
DSS 54	Pedestal Metrology	08/13/2019 22:00	08/14/2019 05:00	0	33 - 33	225	226				
DSS 54	Pedestal Metrology	08/14/2019 22:00	08/15/2019 05:00	0	33 - 33	226	227				
DSS 55	Pedestal Metrology	08/26/2019 22:00	08/27/2019 05:00	0	35 - 35	238	239				
DSS 55	Pedestal Metrology	08/27/2019 22:00	08/28/2019 05:00	0	35 - 35	239	240				
DSS 65	Decommissioned	10/01/2019 00:00	01/01/2050 00:00	11050	40 - 52	274	1				
DSS 54	Pedestal Rehab	11/04/2019 06:00	04/30/2021 17:00	543	45 - 17	308	120				
DSS 54	Servo Replacement - NIB	11/04/2019 06:00	04/30/2021 17:00	543	45 - 17	308	120				
DSS 54	Transmitter Replacement - NIB	11/04/2019 06:00	04/30/2021 17:00	543	45 - 17	308	120				
DSS 24	LNA Maintenance	12/02/2019 00:00	12/05/2019 00:00	3	49 - 49	336	339				





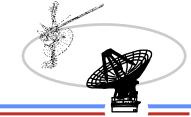


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	2020											
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY					
DSS 36	Ant Insp/TXR RF Characterization - Proposed	01/20/2020 22:00	01/21/2020 10:00	0	04 - 04	20	21					
DSS 43	Ant Insp/TXR RF Characterization - Proposed	01/21/2020 22:00	01/22/2020 10:00	0	04 - 04	21	22					
DSS 34	Ant Insp/TXR RF Characterization - Proposed	01/22/2020 22:00	01/23/2020 10:00	0	04 - 04	22	23					
DSS 35	Ant Insp/TXR RF Characterization - Proposed	01/23/2020 22:00	01/24/2020 10:00	0	04 - 04	23	24					
DSS 36	Ant Insp/TXR RF Characterization - Proposed	01/27/2020 22:00	01/28/2020 10:00	0	05 - 05	27	28					
DSS 43	Ant Insp/TXR RF Characterization - Proposed	01/28/2020 22:00	01/29/2020 10:00	0	05 - 05	28	29					
DSS 34	Ant Insp/TXR RF Characterization - Proposed	01/29/2020 22:00	01/30/2020 10:00	0	05 - 05	29	30					
DSS 35	Ant Insp/TXR RF Characterization - Proposed	01/30/2020 22:00	01/31/2020 10:00	0	05 - 05	30	31					
DSS 63	El Bearing Replacement	03/16/2020 06:00	06/12/2020 17:00	88	12 - 24	76	164					
DSS 14	CEC XMTR Replacement	06/15/2020 16:00	09/19/2020 00:00	95	25 - 38	167	263					



Resource Allocation Planning Service

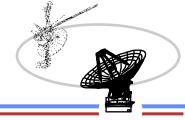


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Future assets new/upgrades

- □ DSS-36 Installation and Operational 2016
 - ☐ Modkit inventory/install/checkout November 23,2015 March 21, 2016 Weeks 48 12
 - □ Acceptance testing March 22, 2016 May 13, 2016 weeks 12 19
 - □ System Integration Testing March 29, 2014 June 30, 2016 Weeks 13 26
 - □ Operations System Performance Testing June 30, 2016 August 29, 2016 weeks 26 35
 - □ Operational date October 1, 2016

Resource Allocation Planning Service



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DSN Resource Implementation Planning Matrix by Complex											
Complex	Station	Subnet	S-B Down	and Up	X-B Down	and Up	Ka-E Down	Band Up	Ka Phase 2	X-Band ACQ	80KW
10	DSS-23*	34B2	N/A	N/A	10/01/24	10/01/24	10/01/24	10/01/24	N/A	N/A	10/01/24
10	DSS-24	34B1	>	Y	•	y	N/A	N/A	*	~	N/A
10	DSS-25	34B2	N/A	N/A	~	>	>	>	N/A	N/A	N/A
10	DSS-26	34B2	09/01/17	09/01/17	>	>	>	N/A	N/A	N/A	>
10	DSS-15	34HEF	>	>	>	>	N/A	N/A	N/A	N/A	N/A
10	DSS-14	70M	>	>	>	>	N/A	N/A	N/A	N/A	N/A
40	DSS-33*	34B2	N/A	N/A	10/01/22	10/01/22	10/01/22	N/A	N/A	N/A	10/01/22
40	DSS-34	34B1	>	>	~	>	y	N/A	y	~	N/A
40	DSS-35	34B2	N/A	N/A	~	>	~	N/A	N/A	N/A	N/A
40	DSS-36*	34B1	10/01/16	10/01/16	10/01/16	10/01/16	10/01/16	N/A	N/A	N/A	N/A
40	DSS-45	34HEF	y	~	~	~	N/A	N/A	N/A	N/A	N/A
40	DSS-43	70M	>	۲	~	>	N/A	N/A	N/A	N/A	N/A
60	DSS-53*	34B2	N/A	N/A	10/01/20	10/01/20	10/01/20	N/A	N/A	N/A	10/01/20
60	DSS-54	34B1	y	~	~	~	~	N/A		~	N/A
60	DSS-55	34B2	N/A	N/A	~	>	y	N/A	N/A	N/A	N/A
60	DSS-56*	34B1	10/01/19	10/01/19	10/01/19	10/01/19	10/01/19	N/A	10/01/19	10/01/19	N/A
60	DSS-65	34HEF	>	y	~	y	N/A	N/A	N/A	N/A	N/A
60	DSS-63	70M	>	>	>	>	N/A	N/A	N/A	N/A	N/A
N/A = Not Applicable or Capability Not Planned xx/xx/xx = Capability Date Recently Changed As of: 10/5/2								10/5/2015			
✓ ✓ ✓ = Ca	✓ ✓ ✓ = Capability Recently Exists					✓ = Capal	oility Exists		* =	To Be Con	missioned