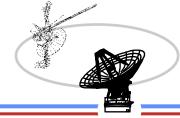
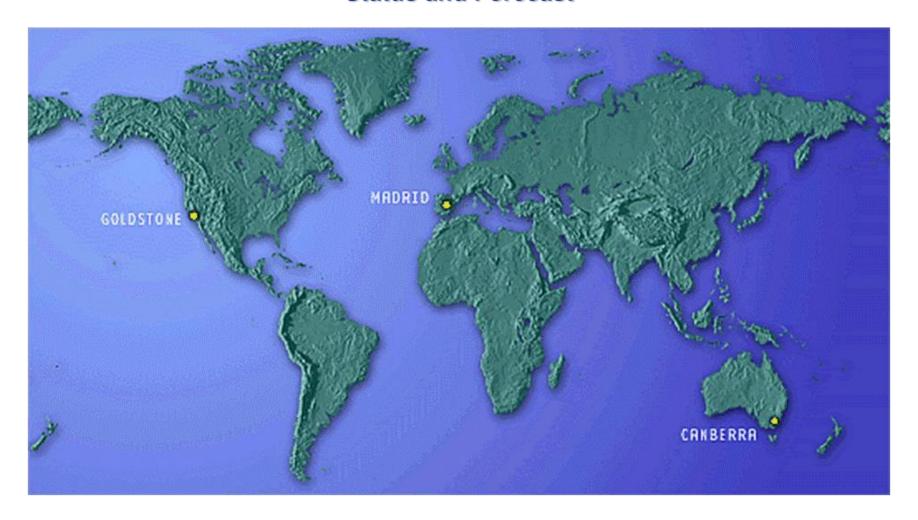


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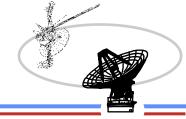


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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
Pedestal Metrology	DSS-63	Feb 2015 Feb 2016 Feb 2017	Aug 2015 July 2016 Aug 2017	34 4 & 32 7 & 34	David Munoz Muchon Bernardo Lopez	Back-to-back nights needed to measure pedestal stability twice a year in Summer and Winter, through Summer 2017. The 2016 downtimes could not co-exist with grouting consequently they are proposed for weeks 4 and 32.
	DSS-54/55	Jun 2015	Sept 2015	26, 30, 36		Moved DSS-54 Metrology from week 31 to week 36. Will measure pedestal stability twice a year in Summer and Winter, through Summer 2019. Weeks 26 and 30 have been completed, will rebaseline DSS-55 after the AZ Track Replacement task.
NMC D3.2 SPS 1.4 I&T, AT Install/SOAK And D3.3 Install/SOAK NMC 4-MSPA I&T, AT SOAK Install, Ops Install	CDSCC GDSCC GDSCC CDSCC MDSCC	Feb 2015 April 2015 May 2015 Feb 2016 May 2016 May 2016	Dec 2015 Dec 2015 Dec 2015 Aug 2016 Aug 2016 June 2016	23, 24, 31, 46 16, 19, 30, 41 22, 32, 50 6, 15, 30 11 & 31 19 & 23	Jim Buckley Shirley Cizmar, Dave Taylor	Weeks 16,19, 22, 23, 24 and 30 were completed. Week 46 and 50 changed from SOAK to D3.3 install. These tasks may tolerate night hours. Requesting 8 hour downtimes in 2016 for NMC 4-MSPA tasks. Week 13 task at CDSCC moved to week 11.



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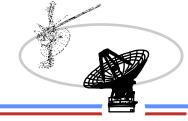


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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
Complex downtime for Power House Commission	CDSCC	Aug 2015 Oct 2015 Dec 2015 April 2016	Aug 2015 Oct 2015 Dec 2015 April 2016	33415014	John Phillips, Cameron Lyon Dave Taylor	Requires at least 4 6-hour downtime between Aug 2015 and April 2016, possibly during night hours.
Antenna Inspections/ TXR RF Characterization	CDSCC MDSCC GDSCC	Jan 2016 Apr 2017 Mar 2018	Jan 2016 Apr 2017 Mar 2018	03 & 04 17 & 18 09 & 10	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.



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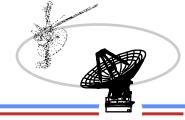


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Downtime`	Antenna	Start Date	End Date	Weeks	POC	Notes
Shimming	DSS-63	Jul 2016 Mar 2018	Aug 2016 Nov 2018	30 – 31 11 – 45	Dave Taylor, David Munoz Mochon, Bernardo Lopez, Asim Sehic	Bad weather could cause a slip of the task and could require an additional week for demos during DSS-14 APCA downtime. July is shortened due to Cas. Grouting has been changed to Shimming 2017 grouting, has moved to 2018 and extended to 35 weeks in conjunction with the APCA. This will be the first attempt for the 120 degree regrout. There will be discussions about using weekends however, it is not currently in the budget Grout and APCA will be combined as 1 activity with the weeks divided between the activities.
Depot Level Maintenance	DSS-63 DSS-43 DSS-34	Aug 3, 2015 Aug 18, 2015 Nov 2015	Aug 14, 2015 Sep 9, 2015 Dec 2015	32 & 33 34 – 36 49 – 51	Paul Richter Bernardo Lopez, John Phillips	DSS-63 DLM changed from grouting activity. DSS-43 Tune-up/Calibration changed to DLM and extended 1 extra week to 36. DSS-34 moved to December time frame and extended 2 weekdays into week 51 Exciter Obsolescence will be NIB to DLM.
UWV Feed Update	DSS-35	Nov 2015	Nov 2015	45– 46	Chris Link	Install UWV Feed Update components from DSS- 13 at DSS-35 and test.



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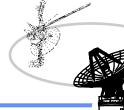


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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
DCD v.5.1 software installation Network DCD Switchover	GDSCC/ DSOC MDSCC CDSCC DSOC	Aug, 2015 Sep 2015 Sep 2015 Oct 2015	Aug 2015 Sep 2015 Sep 2015 Oct 2015	32 37 40 44	Anna Fan, Sheila Garrett	All complexes require installation of DCD 5.1. with a minimum of 6 hours. Beginning with Goldstone, with 30 day separation from the MDSCC install, lastly the CDSCC install. Requires a 2 week separation from the 2 nd and 3 rd install. Network wide DCD equipment switchover to operations from the Data Center
AZ Track Replacement	DSS-55	Aug 2015 Apr 2018	Nov 2015 Jun 2018	34 – 47 14 – 23	Pam Rothman Daniel Olson	Begin DOY 230 vice 229 due to CAS activities. Requested to extend to week 47 This is NIB to XX/Ka Installation.
XKR Feed Cone Ladder	DSS-14	Sept 2015	Sept 2015	39	David Allen	Requesting 3 days to install the XKR Feed Cone Ladder. This will include the hoist mount install.
Power Plant Controller Replacement	SPC-60	Sept 2015	Nov 2015	39, 42, 47		Requested a minimum of 15 days apart



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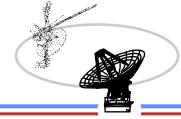


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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
Power Transfer	DSS-26 DSS-25 DSS-24	Oct 2015	Oct 2015	42 43 44	Richard Fleig	This 16-hour Power Transfer downtime was requested by OE Each antenna will be scheduled in separate weeks Prefer dayshift but can work night, no weekends.
G86 Power Work	GDSCC	Dec 2015	Dec 2015	51	David Lloyd	Requesting annual 16 hour downtime for G86 Power Work
Comm & PPC Integration	DSS-26	Oct 2015	Oct 2015	44	Tom Grey	Requested 8 hours
Kirk Key Removal	DSS-28	Dec 2015	Dec 2015	49	Tom Grey	Requested 4 hours
APCA	DSS-14 DSS-43 DSS-63	Feb, 2016 Oct 30, 2017 Mar 2018	May 2016 Feb 9, 2018 Nov 2018	04 – 19 44 – 06 11 – 45	Anna Fan, Barzia Tehrani	Moved to weeks 04-19 to finish early in preparation for JNO JOI. Suggest doing a demo with JNO prior to RTS. DSS-43 extended an additional 3 weeks on the back end. DSS-63 will be in conjunction to the HBA Grouting and is extended to 35 weeks.
SWUPS Installation	CDSCC	May 19 2016 May 24 2016 May 26 2016	May 19 2016 May 24 2016 May 26 2016	202121	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 a Fire Detection issues.



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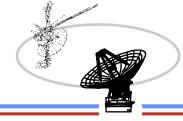


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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
Follow the Sun Ops Test	Network wide, SPC- 10, 40, 60	Jan 2017	Jan 2017	03	Shirley Cizmar	Require 12 hour complex downtime for testing the Follow the sun (FtS) remote Ops. All 3 complexes concurrent.
Follow the Sun Ops Test	Network wide, SPC- 10, 40, 60	March 2017	March 2017	10		Require 12 hour complex downtime for testing the Follow the sun (FtS) remote Ops. All 3 complexes concurrent.
Follow the Sun SOAK	Network wide, SPC- 10, 40, 60	May 2017	May 2017	19		Require 14 hour complex downtime for testing the Follow the sun (FtS) remote Ops. All 3 complexes concurrent.
Ka2 Tune-up	DSS-54	Jan 23, 2017 Mar 13,	Feb 3, 2017 Mar 24,	04 & 05 11 & 12	Wendy Hodgin	These downtimes are being moved to 2017 with DSS-54 being the first Tune-up. All Tune-ups will be standalone. These need to be completed prior to the end of June 2017. This is budget/resource driven
	DSS-34	2017 May 14, 2017	2017 May 26, 2017	20 & 21		There is a task to build 4th Ka2/S-Band capabilities. This needs to be done 6 months prior to TESS Launch.
L-Band Install	DSS-14	Jun 2017	Jun 2017	25 & 26		Install the L-Band. Exciter install will be NIB



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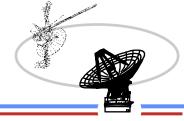
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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
XX/Ka Installation	DSS-25	Mar 2018 Feb 2019	Jun 2018 Apr 2019	10 – 23 06 – 17	Wendy Hodgin	XX/Ka requires 14 weeks - AZ Track will be NIB in weeks 14 – 23. Needs to happen as soon after JNO end of mission as possible. DSS-24 is not funded at this time, but still in the plan to proceed with downtime. Moving to early 2019 for 12 weeks.
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
El Bearing Replacement	DSS-63	Apr 20, 2020	Jul 10, 2020	17 – 28	Asim Sehic	This downtime was request on 11/14/2014. There are about 5-6 years of bearing life left based on last inspection.







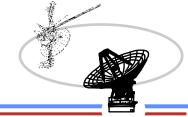


70m Major Downtimes 2015 - 2020

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
Depot Level Maintenance	DSS-43	Aug 17, 2015	Sep 4, 2015	34 – 36	Approved	17	Renamed to Depot Level Maintenance Next downtime is October of 2017
APCA	DSS-43	Oct 30, 2017	Feb 9, 2018	44 – 06	Proposed	101	LNA is scheduled NIB in week 02 of 2018
Depot Level Maintenance	DSS-63	Aug 3, 2015	Aug 14, 2015	32 – 33	Approved	12	Next downtime is July of 2016
Shimming	DSS-63	Jul 25, 2016	Aug 5, 2016	30 – 31	Approved	11	Next downtime is March of 2018.
Grouting/APCA	DSS-63	Mar 12, 2018	Nov 9, 2018	11 – 45	Proposed	243	Next downtime is April of 2020
El Bearing Replacement	DSS-63	Apr 20, 2020	Jul 10, 2020	17 – 27	Proposed	446	







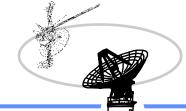
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Antenna	Start Date	End Date	Week	STATUS	Number of Days	2015 LNAs	Number of months since last LNA
DSS-43	Jan	Jan	01	Approved	5	Mar, Jun, Oct, Nov, Dec of 2015	10 months
DSS-63	Jan	Jan	03	Approved	5	Jan, Nov of 2015 During grouting	13 months
DSS-14	Jan	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	June	June	25	Approved	3	May 2015	13 months
DSS-54	Jul	Jul	29	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	45	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







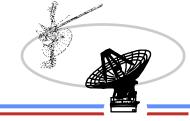


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Antenna	Start Date	End Date	Week	STATUS	Number of Days	Notes for 2017 LNAs	Number of months since last LNA
DSS-43	Mar	Mar	08/09	Proposed	5	NIB to Exciter Obsolescence	14 months
DSS-14	Mar	Mar	13	Proposed	5	Stand Alone	14 months
DSS-63	May	May	19	Proposed	5	Stand Alone	16 months
DSS-24	July	July	27	Proposed	3	Stand Alone	10 months
DSS-54	Oct	Oct	41	Proposed	3	Stand Alone	15 months



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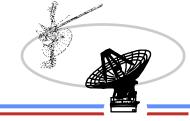


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Antenna	Start Date	End Date	Week	STATUS	Number of Days	Notes for 2018 LNAs	Number of months since last LNA
DSS-43	Jan	Jan	02	Proposed	5	NIB to APCA	10 months
DSS-55	Feb	Feb	05	Proposed	3	Stand Alone	13 months
DSS-14	Jan	Jan	06	Proposed	5	Stand Alone	13 months
DSS-34	Mar	Mar	09	Proposed	3	Stand Alone	14 months
DSS-35	Apr	Apr	16	Proposed	50 hours	Stand Alone	14 months
DSS-63	June	June	23	Proposed	5	NIB to APCA/Grouting	13 months
DSS-24	Sept	Sept	39	Proposed	3	Stand Alone	14 months
DSS-54	Nov	Nov	47	Proposed	3	Stand Alone	13 months



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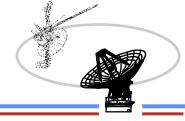


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Antenna	Start Date	End Date	Week	STATUS	Number of Days	Notes for 2019 LNAs	Number of months since last LNA
DSS-43	Mar	Mar	10	Proposed	5	Stand Alone	14 months
DSS-34	May	May	18	Proposed	3	Stand Alone	14 months
DSS-14	May	May	19	Proposed	5	Stand Alone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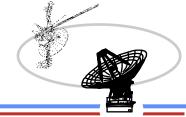


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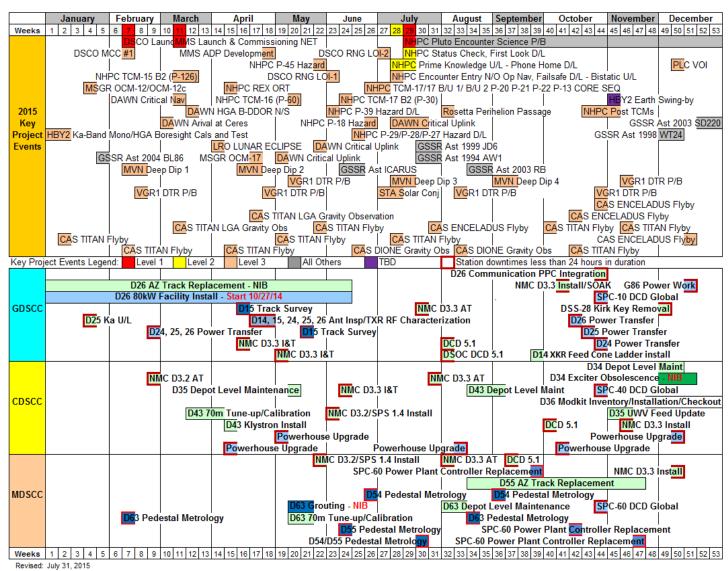
Exciter Obsolescence Install 2016

Antenna	Start Date	End Date	Week	Status	# of Days	Notes
DSS-34	Nov 30, 2015	Dec 15, 2015	49	Approved	12	NIB to DLM
DSS-24	May 9, 2016	May 13,, 2016	19	Approved	5	DSS-24 LNA NIB
DSS-54	Jul 18, 2016	Jul 22, 2016	29	Approved	5	DSS-54 LNA 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 7, 2016	Nov 11, 2016	45	Approved	5	DSS-65 LNA NIB
DSS-55	Dec 12, 2016	Dec 16, 2016	50	Approved	5	DSS-55 LNA NIB
DSS-43	Feb 27 , 2017	Mar 3, 2017	9	Proposed	5	NIB to L-Band
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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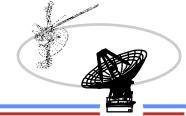


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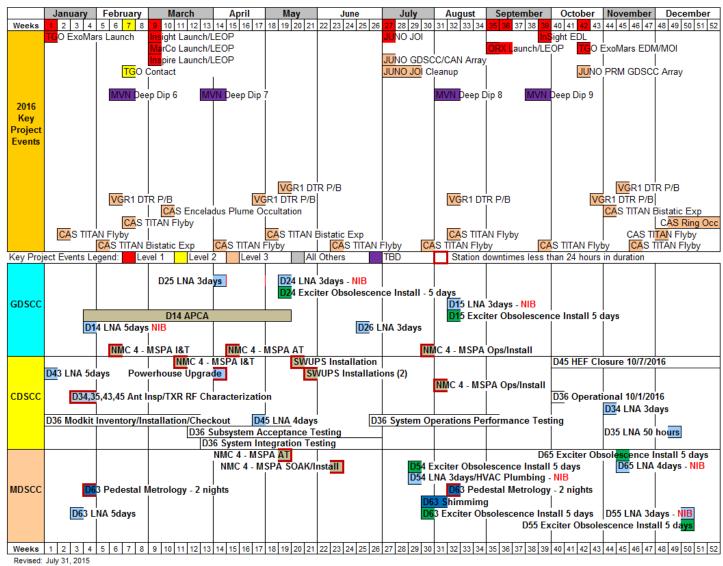


- 2015 -

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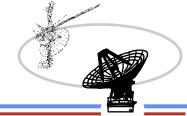


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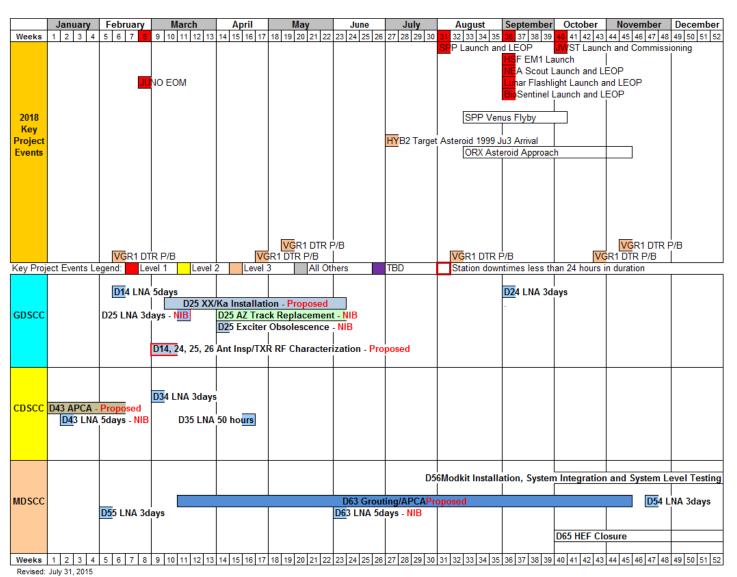
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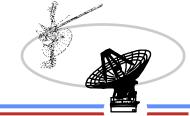
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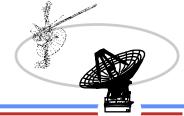
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MDSCC					_				D54 Pe	distal Rehab e	nd April 2021	- Proposed
					D55 L	NA 3days		D63 LNA 5days	3 1	D54 Servo/X	MTR Replac	ement - NIB
							D.C.	 	diam Comi		- d Cood-on 1	I T4'-
							D5.	3 Modkit Installa	ation, Syster 	n integration ai	na System Le	evel lesting
Weeks	1 2 3 4 5	6 7 8 9	10 11 12 11	3 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
Weeks	1 2 3 4 5	6 7 8 9	10 11 12 13	3 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

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Revised: August 3, 2015

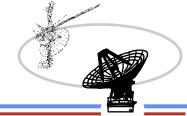
	January	February	March	April	May 18 19 20 21 22	June	July	August	September	October	November	December 49 50 51 52 53
Weeks	1 2 3 4 5	6 7 8 9	10 11 12 13	14 15 16 17	18 19 20 21 22	23 24 25 26	27 28 29 30	31 32 33 34 35	36 37 38 39	40 41 42 43 44	45 46 47 48	49 50 51 52 53
							Mars 2020 La	aunch		HYB2	 Earth Re-Er 	itry
							SPP Ven	us Flyby		IV	I IARS 2020 M	20 Approach
					SF	P Venus Fly						
2020												
Key												
Project												
Events												
					VGR1 DTR F	P/B					VGR1 DTR F	P/B
			R1 DTR P/B	VG	R1 DTR P/B			VGR1 DTR F			DTR P/B	
Key Proj	ect Events Leger	nd: Level '	1 Level 2	2 Level 3	3 All Ot	ners	TBD	Station dow	ntimes less tl	han 24 hours in c	luration	
00000												
GDSCC												
CDSCC												
				-	2 F.I.D. 1							
				D6	3 El Bearing Re	placement	- Proposed					
					DEA Dodiet	al Dahah an	d April 2021	Droposed				
MDSCC							a April 2021 Replacement					
WDSCC					D34 3	CIVO/AWITK I	tepiacemen	I - MID				
		D53	Modkit Insta	llation, Syste	em Integration	and System	Level Testin	q		D53 (Dperational	1
				,	g			J				
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 -

- 2021 -

Interplanetary Network Directorate (IND) Deep Space Network (DSN)

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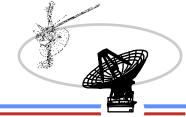


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		January	February	March	April	May	June	July	August	September	October	November	December
ļ	Weeks	1 2 3 4 5	6 7 8 9	10 11 12 13	14 15 16 17	18 19 20 21	22 23 24 25	26 27 28 29 30	31 32 33 34	35 36 37 38 39	40 41 42 43	44 45 46 47	48 49 50 51 52
	2021 Key Project Events								HS F EM2 La	sunch			
			<u> </u>					TDD	0: ::		041		
-	Key Proj	ect Events Lege	end: Level	1 Level	2 Level	3 All	Others	TBD	Station	lowntimes less t	han 24 hours	in duration	
	GDSCC												
	CDSCC												
	MDSCC	D54 Pedistal F D54 Se	ervo/XMTR R	eplacement	- NIB		on and Syst	em Level Testin	g		D53 Ор е	erational	
	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



Resource Allocation Planning Service



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DSN Downtime 2015

SPC 10 DC	Details epot Level Maintenance CD V5.1 GOC DCD V5.1	Start 08/03/2015 05:00 08/07/2015 08:35	End 08/14/2015 17:00	Duration (Days)	Weeks	Start DOY	End DOY
SPC 10 DC	CD V5.1		08/14/2015 17:00	12			
$\overline{}$		08/07/2015 08:35		12	32 - 33	215	226
CCE 20 DS/	SOC DCD V5.1		08/07/2015 14:35	0	32 - 32	219	219
GCF 20 D30		08/07/2015 08:35	08/07/2015 14:35	0	32 - 32	219	219
SPC 60 NN	MC D3.3 AT	08/09/2015 00:00	08/09/2015 05:25	0	32 - 32	221	221
SPC 40 Cor	omplex Powerhouse Upgrade	08/14/2015 20:00	08/15/2015 02:00	0	33 - 33	226	227
DSS 43 De	epot Level Maintenance	08/17/2015 21:00	09/04/2015 06:00	17	34 - 36	229	247
DSS 55 AZ	? Track Replacement	08/18/2015 06:00	11/20/2015 17:00	94	34 - 47	230	324
DSS 63 Peo	edestal Metrology	08/19/2015 23:00	08/20/2015 05:00	0	34 - 34	231	232
DSS 63 Peo	edestal Metrology	08/20/2015 23:00	08/21/2015 05:00	0	34 - 34	232	233
DSS 54 Peo	edestal Metrology	09/02/2015 21:00	09/03/2015 03:25	0	36 - 36	245	246
DSS 54 Peo	edestal Metrology	09/03/2015 21:00	09/04/2015 05:30	0	36 - 36	246	247
SPC 60 DC	CD V5.1	09/11/2015 21:55	09/12/2015 03:55	0	37 - 37	254	255
DSS 14 XKI	(R Feed Cone Ladder Installation	09/21/2015 15:00	09/24/2015 02:00	2	39 - 39	264	267
SPC 60 Pov	ower Plant Controller Replacement	09/25/2015 06:00	09/25/2015 14:00	0	39 - 39	268	268
SPC 40 DC	CD V5.1	10/03/2015 14:25	10/03/2015 20:15	0	40 - 40	276	276
SPC 40 Cor	omplex Powerhouse Upgrade	10/07/2015 21:00	10/08/2015 03:00	0	41 - 41	280	281
SPC 10 NN	MC D3.3 Install/SOAK	10/11/2015 00:00	10/11/2015 08:00	0	41 - 41	284	284
DSS 26 Pov	ower Transfer	10/15/2015 19:05	10/16/2015 11:05	1	42 - 42	288	289
SPC 60 Pov	ower Plant Controller Replacement	10/16/2015 06:00	10/16/2015 14:00	0	42 - 42	289	289
	ower Transfer	10/20/2015 15:00	10/21/2015 07:00	1	43 - 43	293	294
GCF 20 DC	CD Equipment Switchover	10/26/2015 14:00	10/26/2015 18:00	0	44 - 44	299	299
SPC 60 DC	CD Equipment Switchover	10/26/2015 14:00	10/26/2015 18:00	0	44 - 44	299	299
SPC 10 DC	CD Equipment Switchover	10/26/2015 14:00	10/26/2015 18:00	0	44 - 44	299	299

Downtime August 4, 2015 22



Resource Allocation Planning Service

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		2015					
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
SPC 40	DCD Equipment Switchover	10/26/2015 14:00	10/26/2015 18:00	0	44 - 44	299	299
DSS 26	Communication PPC Integration	10/26/2015 18:00	10/27/2015 02:00	0	44 - 44	299	300
DSS 24	Power Transfer	10/28/2015 15:00	10/29/2015 07:00	1	44 - 44	301	302
DSS 35	UWV Feed Update	11/02/2015 00:00	11/13/2015 05:00	11	45 - 46	306	317
SPC 40	NMC D3.3 Install	11/12/2015 00:00	11/12/2015 08:00	0	46 - 46	316	316
SPC 60	Power Plant Controller Replacement	11/18/2015 06:00	11/18/2015 14:00	0	47 - 47	322	322
DSS 34	Depot Level Maintenance	11/30/2015 21:00	12/15/2015 05:00	14	49 - 51	334	349
DSS 34	Exciter Obsolescence Install-NIB	11/30/2015 21:00	12/15/2015 05:00	14	49 - 51	334	349
DSS 28	Kirk Key Removal	12/01/2015 15:00	12/01/2015 19:00	0	49 - 49	335	335
SPC 40	Complex Powerhouse Upgrade	12/11/2015 21:00	12/12/2015 03:00	0	50 - 50	345	346
SPC 60	NMC D3.3 Install	12/12/2015 03:00	12/12/2015 09:00	0	50 - 50	346	346
SPC 10	G86 Power Work	12/17/2015 14:00	12/18/2015 06:00	1	51 - 51	351	352



Resource Allocation Planning Service

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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	01/08/2016 16:30	5	01 - 01	4	8
DSS 63	LNA Maintenance	01/18/2016 00:00	01/22/2016 17:00	5	03 - 03	18	22
DSS 43	Ant Insp/TXR RF Characterization	01/18/2016 22:00	01/19/2016 10:00	0	03 - 03	18	19
DSS 34	Ant Insp/TXR RF Characterization	01/19/2016 22:00	01/20/2016 10:00	0	03 - 03	19	20
DSS 45	Ant Insp/TXR RF Characterization	01/20/2016 22:00	01/21/2016 10:00	0	03 - 03	20	21
DSS 35	Ant Insp/TXR RF Characterization	01/21/2016 22:00	01/22/2016 10:00	0	03 - 03	21	22
DSS 14	LNA Maintenance - NIB	01/25/2016 00:00	01/29/2016 23:00	5	04 - 04	25	29
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 19:00	01/26/2016 05:00	0	04 - 04	25	26
DSS 63	Pedestal Metrology	01/26/2016 19:00	01/27/2016 05:00	0	04 - 04	26	27
DSS 43	Ant Insp/TXR RF Characterization	01/26/2016 22:00	01/27/2016 10:00	0	04 - 04	26	27
DSS 34	Ant Insp/TXR RF Characterization	01/27/2016 22:00	01/28/2016 10:00	0	04 - 04	27	28
DSS 45	Ant Insp/TXR RF Characterization	01/28/2016 22:00	01/29/2016 10:00	0	04 - 04	28	29
DSS 35	Ant Insp/TXR RF Characterization	01/29/2016 22:00	01/30/2016 10:00	0	04 - 04	29	30
SPC 10	NMC 4 - MSPA I&T	02/13/2016 00:00	02/13/2016 08:00	0	06 - 06	44	44
SPC 40	NMC 4 - MSPA I&T	03/18/2016 00:00	03/18/2016 08:00	0	11 - 11	78	78
DSS 25	LNA Maintenance	04/04/2016 00:00	04/07/2016 23:00	4	14 - 14	95	98
SPC 40	Complex Powerhouse Upgrade	04/06/2016 21:00	04/07/2016 03:00	0	14 - 14	97	98
SPC 10	NMC 4 - MSPA AT	04/15/2016 00:00	04/15/2016 08:00	0	15 - 15	106	106
DSS 45	LNA Maintenance	04/25/2016 00:00	04/29/2016 00:00	4	17 - 17	116	120
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 00:00	05/14/2016 08:00	0	19 - 19	135	135
-	<u>'</u>					Downtime A	Lugust 4, 2015 2



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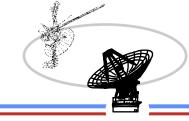
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		2016					
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
SPC 40	SWUPS Installation	05/19/2016 21:00	05/20/2016 09:00	0	20 - 20	140	141
SPC 40	SWUPS Installation	05/24/2016 21:00	05/25/2016 09:00	0	21 - 21	145	146
SPC 40	SWUPS Installation	05/26/2016 21:00	05/27/2016 09:00	0	21 - 21	147	148
SPC 60	NMC 4 - MSPA SOAK/Install	06/10/2016 00:00	06/10/2016 08:00	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	LNA Maintenance/HVAC Plumbing - NIB	07/18/2016 00:00	07/23/2016 00:00	5	29 - 29	200	205
DSS 54	Exciter Obsolescence Install	07/18/2016 06:00	07/23/2016 17:00	5	29 - 29	200	205
DSS 63	Exciter Obsolescence Install-NIB	07/25/2016 06:00	07/30/2016 17:00	5	30 - 30	207	212
DSS 63	Shimming	07/25/2016 06:00	08/05/2016 17:00	11	30 - 31	207	218
SPC 10	NMC 4 -MSPA Ops Install	07/30/2016 00:00	07/30/2016 08:00	0	30 - 30	212	212
SPC 40	NMC 4 - MSPA OPs Install	08/06/2016 00:00	08/06/2016 08:00	0	31 - 31	219	219
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-Proposed	08/08/2016 15:00	08/13/2016 00:00	4	32 - 32	221	226
DSS 63	Pedestal Metrology	08/08/2016 22:00	08/09/2016 05:00	0	32 - 32	221	222
DSS 63	Pedestal Metrology	08/09/2016 20:00	08/10/2016 05:00	0	32 - 32	222	223
DSS 45	Decommissioned	10/01/2016 00:00	01/01/2050 00:00	12145	39 - 52	275	1
DSS 34	LNA Maintenance	10/31/2016 00:00	11/03/2016 00:00	3	44 - 44	305	308
DSS 65	LNA Maintenance - NIB	11/07/2016 00:00	11/11/2016 00:00	4	45 - 45	312	316
DSS 65	Exciter Obselescence Install	11/07/2016 06:00	11/12/2016 17:00	5	45 - 45	312	317
DSS 35	LNA Maintenance	12/05/2016 00:00	12/09/2016 00:00	4	49 - 49	340	344
DSS 55	LNA Maintenance - NIB	12/12/2016 00:00	12/15/2016 00:00	3	50 - 50	347	350
DSS 55	Exciter Obsolescence Install	12/12/2016 06:00	12/17/2016 17:00	5	50 - 50	347	352



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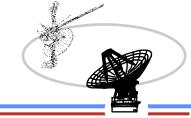
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		2017					
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
SPC 10	Follow the Sun Ops Testing	01/21/2017 14:00	01/22/2017 02:00	0	03 - 03	21	22
SPC 40	Follow the Sun Ops Testing	01/21/2017 14:00	01/22/2017 02:00	0	03 - 03	21	22
SPC 60	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 - Proposed	01/23/2017 07:00	02/03/2017 17:00	11	04 - 05	23	34
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	Exciter Obsolescence Install - Proposed	02/26/2017 21:00	03/03/2017 21:00	5	08 - 09	57	62
DSS 43	LNA - NIB	02/26/2017 21:00	03/03/2017 21:00	5	08 - 09	57	62
SPC 60	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 10	Follow the Sun Ops Testing	03/09/2017 12:00	03/10/2017 00:00	0	10 - 10	68	69
DSS 24	Ka2 Tune-up - Proposed	03/13/2017 15:00	03/25/2017 00:00	11	11 - 12	72	84
DSS 14	LNA Maintenance	03/27/2017 00:00	03/31/2017 23:00	5	13 - 13	86	90
DSS 55	Ant Insp/TXR RF Characterization - Proposed	04/24/2017 07:00	04/24/2017 19:00	0	17 - 17	114	114
DSS 65	Ant Insp/TXR RF Characterization - Proposed	04/25/2017 07:00	04/25/2017 19:00	0	17 - 17	115	115
DSS 63	Ant Insp/TXR RF Characterization - Proposed	04/26/2017 07:00	04/26/2017 19:00	0	17 - 17	116	116
DSS 54	Ant Insp/TXR RF Characterization - Proposed	04/27/2017 07:00	04/27/2017 19:00	0	17 - 17	117	117
DSS 55	Ant Insp/TXR RF Characterization - Proposed	05/01/2017 07:00	05/01/2017 19:00	0	18 - 18	121	121
DSS 65	Ant Insp/TXR RF Characterization - Proposed	05/02/2017 07:00	05/02/2017 19:00	0	18 - 18	122	122
DSS 63	Ant Insp/TXR RF Characterization - Proposed	05/03/2017 07:00	05/03/2017 19:00	0	18 - 18	123	123
DSS 54	Ant Insp/TXR RF Characterization - Proposed	05/04/2017 07:00	05/04/2017 19:00	0	18 - 18	124	124
DSS 63	LNA Maintanance	05/08/2017 00:00	05/13/2017 00:00	5	19 - 19	128	133
SPC 10	Follow the Sun Ops SOAK	05/13/2017 12:00	05/14/2017 02:00	1	19 - 19	133	134
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Resource Allocation Planning Service

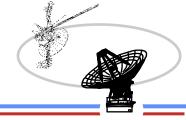


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		2017					
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
SPC 40	Follow the Sun Ops SOAK	05/13/2017 12:00	05/14/2017 02:00	1	19 - 19	133	134
SPC 60	Follow the Sun Ops SOAK	05/13/2017 12:00	05/14/2017 02:00	1	19 - 19	133	134
DSS 34	Ka2 Tune-up - Proposed	05/15/2017 21:00	05/26/2017 06:00	10	20 - 21	135	146
DSS 14	Exciter Obsolescence - NIB	06/19/2017 15:00	06/24/2017 23:00	5	25 - 25	170	175
DSS 14	L-Band Replacement	06/19/2017 15:00	06/30/2017 23:00	11	25 - 26	170	181
DSS 24	LNA Maintenance	07/03/2017 00:00	07/06/2017 00:00	3	27 - 27	184	187
DSS 63	Pedestal Metrology	08/21/2017 22:00	08/22/2017 05:00	0	34 - 34	233	234
DSS 63	Pedestal Metrology	08/22/2017 22:00	08/23/2017 05:00	0	34 - 34	234	235
DSS 54	LNA Maintenance	10/09/2017 00:00	10/12/2017 00:00	3	41 - 41	282	285
DSS 43	APCA - Proposed	10/30/2017 21:00	02/09/2018 06:00	101	44 - 06	303	40



Resource Allocation Planning Service



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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 55	LNA Maintenance	01/29/2018 00:00	02/03/2018 00:00	5	05 - 05	29	34
DSS 14	LNA Maintenance	02/05/2018 00:00	02/09/2018 23:00	5	06 - 06	36	40
DSS 14	Ant Insp/TXR RF Characterization - Proposed	02/26/2018 15:00	02/27/2018 03:00	0	09 - 09	57	58
DSS 34	LNA Maintenance	02/26/2018 21:00	03/01/2018 21:00	3	09 - 09	57	60
DSS 26	Ant Insp/TXR RF Characterization - Proposed	02/27/2018 15:00	02/28/2018 03:00	0	09 - 09	58	59
DSS 25	Ant Insp/TXR RF Characterization - Proposed	02/28/2018 15:00	03/01/2018 03:00	0	09 - 09	59	60
DSS 24	Ant Insp/TXR RF Characterization - Proposed	03/01/2018 15:00	03/02/2018 03:00	0	09 - 09	60	61
DSS 14	Ant Insp/TXR RF Characterization - Proposed	03/05/2018 15:00	03/06/2018 03:00	0	10 - 10	64	65
DSS 26	Ant Insp/TXR RF Characterization - Proposed	03/06/2018 15:00	03/07/2018 03:00	0	10 - 10	65	66
DSS 25	XX/Ka Installation	03/06/2018 15:00	06/08/2018 00:00	93	10 - 23	65	159
DSS 24	Ant Insp/TXR RF Characterization - Proposed	03/07/2018 15:00	03/08/2018 03:00	0	10 - 10	66	67
DSS 25	Ant Insp/TXR RF Characterization - Proposed	03/09/2018 15:00	03/10/2018 03:00	0	10 - 10	68	69
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 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



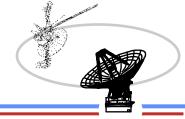


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2019									
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY		
DSS 24	XX/Ka Installation - Proposed	02/04/2019 15:00	04/26/2019 00:00	80	06 - 17	35	116		
DSS 43	LNA Maintenance	03/04/2019 21:00	03/09/2019 21:00	5	10 - 10	63	68		
DSS 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 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	3	31 - 31	210	215		
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		



Resource Allocation Planning Service

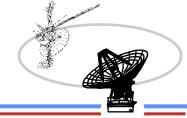


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2020									
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY		
DSS 63	El Bearing Replacement	4/20/2020 7:00	7/10/2021 17:00	446	17 - 27	111	191		



Resource Allocation Planning Service



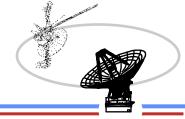
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Future assets new/upgrades

- □ 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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S-Band X-Band Ka-Band Ka X-Band Ka X-Band Ra Ra X-Band Ra Ra X-Band Ra Ra Ra Ra Ra Ra Ra R	DSN Resource Implementation Planning Matrix by Complex											
Complex Station Subnet Down Up Down Up Down Up Phase 2 ACQ 10 DsS-23 34B2 N/A N/A 10/01/24 10/01/24 10/01/24 N/A N/A N/A 10/01/24 10 DsS-24 34B1												80KW
10 DSS-24 34B1	Complex	Station	Subnet	Down	Up	Down	Up	Down	Up	Phase 2	ACQ	
10 DSS-25 34B2 N/A N/A N/A V V N/A	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-26 34B2 N/A N/A V V N/A	10	DSS-24	34B1	>	>	>	>	N/A	N/A	>	>	N/A
10 DSS-15 34HEF	10	DSS-25	34B2	N/A	N/A	>	>	>	>	N/A	N/A	N/A
10 DSS-14 70M	10	DSS-26	34B2	N/A	N/A	>	•	y	N/A	N/A	N/A	•
40 DSS-33 34B2 N/A N/A 10/01/22 10/01/22 N/A N/A N/A N/A 10/01/22 40 DSS-34 34B1	10	DSS-15	34HEF	>	~	>	~	N/A	N/A	N/A	N/A	N/A
40 DSS-34 34B1	10	DSS-14	70M	*	~	>	~	N/A	N/A	N/A	N/A	N/A
40 DSS-35 34B2 N/A N/A V V N/A	40	DSS-33 ²	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-36 ³ 34B1 10/01/16 10/01/16 10/01/16 10/01/16 N/A	40	DSS-34	34B1	y	~	>	~	~	N/A	~	~	N/A
40 DSS-45 34HEF	40	DSS-35	34B2	N/A	N/A	>	~	~	N/A	N/A	N/A	N/A
40 DSS-43 70M ✓ ✓ ✓ N/A	40	DSS-363	34B1	10/01/16	10/01/16	10/01/16	10/01/16	10/01/16	N/A	N/A	N/A	N/A
60 DSS-53 34B2 N/A N/A 10/01/20 10/01/20 N/A N/A N/A N/A 10/01/20 60 DSS-54 34B1	40	DSS-45	34HEF	*	~	٠	¥	N/A	N/A	N/A	N/A	N/A
60 DSS-54 34B1	40	DSS-43	70M	>	~	>	~	N/A	N/A	N/A	N/A	N/A
60 DSS-55 34B2 N/A N/A V V N/A N/A N/A N/A N/A N/A 60 DSS-56 34B1 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 V V N/A N/A N/A N/A N/A N/A 60 DSS-63 70M V V N/A 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: 7/27/2015	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-56 ³ 34B1 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	60	DSS-54	34B1	*	~	>	~	~	N/A	*	~	N/A
60 DSS-65 34HEF ✓ ✓ N/A N/A <td>60</td> <td>DSS-55</td> <td>34B2</td> <td>N/A</td> <td>N/A</td> <td>></td> <td>•</td> <td>></td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td>	60	DSS-55	34B2	N/A	N/A	>	•	>	N/A	N/A	N/A	N/A
60 DSS-63 70M N/A = Not Applicable or Capability Not Planned XX/XX/XX = Capability Date Recently Changed As of: 7/27/2015	60	DSS-563	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
N/A = Not Applicable or Capability Not Planned xx/xx/xx = Capability Date Recently Changed As of: 7/27/2015	60	DSS-65	34HEF	>	>	>	>	N/A	N/A	N/A	N/A	N/A
	60	DSS-63	70M	>	>	>	>	N/A	N/A	N/A	N/A	N/A
✓ ✓ ✓ = Capability Recently Exists ✓ = Capability Exists * = To Be Commissioned	N/A = Not Applicable or Capability Not Planned					xx/xx/xx = Capability Date Recently Changed			d As of: 7/27/2015			
	✓ ✓ ✓ = Capability Recently Exists				✓ = Capal	bility Exists		* =	* = To Be Commissioned			