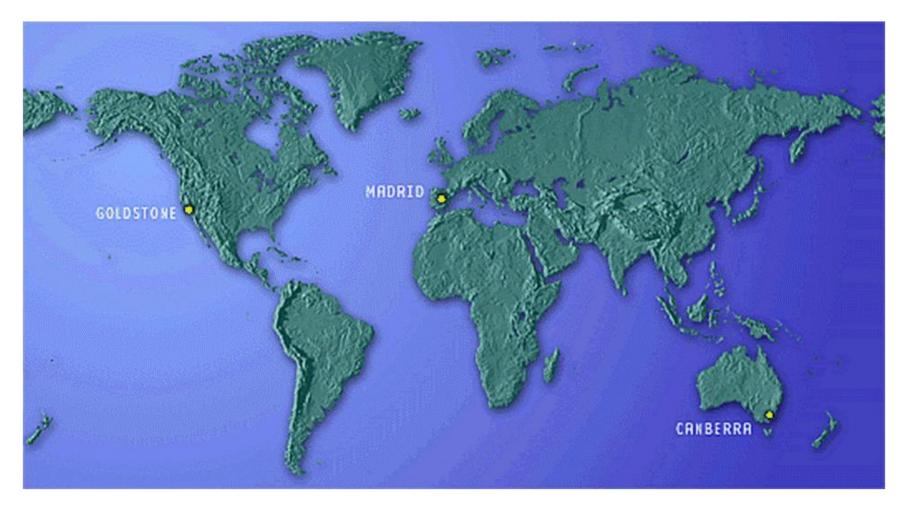


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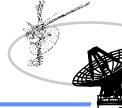
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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
Complex downtime for SPC-60 Power Cutover	MDSCC	Apr 2014	Aug 2014	15, 19, 23, 27, 32, 34	Anna Fan, Craig Phillips, Javier Lopez- Perea	Weeks 15,19, 23, 27 & 32 have been completed. Week 34 is the last downtime for this task. They may have to compress time between specific dates and hours for each downtime. UPSs are up and tested. There is power in the control bldg – Completed
Quad Leg Work	DSS-14	May 2014	Dec 2014	19, 29, 50	David Allen, Erik Holmgren	Quad Leg Work downtime requires a total of 12 prime shift days with tracking available off shift Weeks 19 & 29, with five days M – F each week were completed, Week 50 has two days, Tues and Thurs. Dropped material through reflector panel. Additional days added in December downtime to make repairs and replace reflector panel.
Replace Sub Reflector Cable	DSS-14	Jul 2014	Jul 2014	28	Jeff Mason	Request 5 days. Tracking available during night hours after the first 2 nights. As of 7/21 test were being conducted on new cable due to errors. Cable is unstable. Cable is not in fabrication. It will be replaced during December downtime.
Move Upgrade	GDSCC	Aug 2014	Aug 2014	35	Mike Rafferty	Upgrading the MOVE system at SPC-10 Completed



## Resource Allocation Planning Service



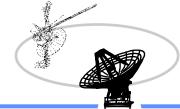
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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
AZ Track Level C/O	DSS-55 DSS-65 DSS-54	Aug 2014	Sept 2014	34 35 37	Renee Miller, Bernardo Lopez	34M antenna requires 10 hour blocks each year 1 each week during week nights, avoiding weekends DSS-55, 65 are completed. Bernardo will check for these check outs and why the other complexes do not do this. Block of additional time added for Pintle bearing survey
NMC ALB A/T and SOAK	MDSCC CDSCC GDSCC	Aug 2014 Oct 2014 Oct 2014	Aug 2014 Oct 2014 Oct 2014	35 41 44	Jim Buckley, Shirley Cizmar, Dave Taylor	With the upcoming Level-1 MAVEN and MOM events in which Goldstone and Canberra will be under MCC, the NMC Dev Team would like to begin SOAK installation at Madrid in order to use the standard 30 day SOAK period. GDSCC and CDSCC will be installed after the Level-1 events are completed. Will check status after MDSCC SOAK to see if they can move forward with the remaining two SOAKs.
NMC SPS AM Install	GDSCC CDSCC MDSCC	April 2015	April 2015	16 17 18		NMC SPS AM downtime was requested at the July downtime meeting for April 2015 timeframe
HBA 10 DEG	DSS-63	Oct 2014	Oct 2014	40	David Munoz Mochon, Bernardo Lopez	Requested two additional nights in Oct. timeframe,



## Resource Allocation Planning Service





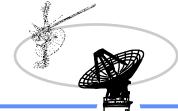
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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
Complex wide Electrical Maintenance	SPC-10	Oct 2014	Oct 2014	41	David Lloyd	Week 34 12-hour downtime was moved to week 41 due to MOM activities Could work on Quad Leg during this time.
TXR RF Characterization	MDSCC	Oct 2014	Oct 2014	42 & 43	Harout Matossian	With insufficient manpower to perform the TXR RF Characterization and the 70M DLM tasks that also starts in week 43, we prefer to schedule the TXR task in the normal 9 hour dayshift timeframe on antenna maintenance days.  Need to find out if this needs to be done in April during GDSCC antenna Inspections.
Grouting	DSS-63	Oct 2014 May 2015 Aug 2015 Feb 2016 Jul 2016 Feb 2017	Nov 2014 May 2015 Aug 2015 Mar 2016 Aug 2016 Apr 2017	43 – 48 20 & 21 32 & 33 05 – 09 30 – 34 08 – 17	Dave Taylor, David Munoz Mochon, Bernardo Lopez, Asim Sehic	An additional week (43) was added to first grouting in 2014 in preparation for the DSN 50 <sup>th</sup> anniversary. Nov. 2014, S-Band Maser Replacement NIB May 2015, 70m Tune-up and calibration NIB 2015 groutings are only 2 weeks to allow support of NHPC  Per mission requirements in 2017 have reduced time to 10 weeks and will place APCA downtime as stand alone in 2018. No issues at this time. The SHMT will be worked on 11/3, Engineer will be there in early November.



## Resource Allocation Planning Service



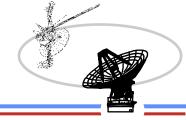


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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
80kW Prep	DSS-26	Oct 2014	June 2015	44 – 24	Erik Holmgren Pam Rothman, Daniel Olson	Downtime will start in week 44 and end week 24. Downtime will end in preparation the NHPC Pluto encounter in mid July. AZ Track will be NIB to the 80kW facility prep. Unknown if 80kW is ready. Could be a personnel availability problem.
70M Tune-up and calibration	DSS-14 DSS-43 DSS-43 DSS-63	Dec 1, 2014 Feb 16, 2015 Mar 18, 2015 May 2015	Dec 17, 2014 Feb 27, 2015 April 3, 2015 May 2015	49 – 51 08 & 09 12 – 14 20 & 21	Jose Perez Dave Taylor David Allen John Phillips	These are In preparation for NHPC Pluto Encounter DSS-14 extended to install the new L-Band feed horn.  Additional time added to replace time lost in 2014 during HBA  This is scheduled NIB to May Grouting Tasks for these downtimes should be similar for each complex.
Ka U/L Engineering Test	DSS-25	Jan 2015	Jan 2015	4	Andre Jongeling	The Engineers are requesting 4 daylight days T-F 8 hours each to complete this task. Monday is a holiday.





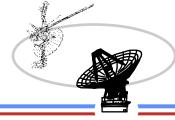


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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
Complex downtime for Power House Commission	CDSCC	Apr 2015 Dec 2015	Apr 2015 Dec 2015	15 49 & 52	John Phillips, Craig Phillips, Dave Taylor	Moved from Mar to April 2015 (Apr 9 & 10). Begins after Cassini pass  Moved from August to December. This is a placeholder until the complex confirms. Possible PLC VOI Conflict These could change. Will talk with John Phillips and Cameron Lyon, could be money issues.
Antenna Inspections	GDSCC	Apr 2015 Apr 2018	Apr 2015 Apr 2018	17 & 18 15 & 16	Dave Taylor Andrew Brooks	2015 Antenna Inspections moved from weeks 13 & 14. Check with engineer for TXR RF Characterization needed in 2015.
DCD v.5.1 software installation	GDSCC/ DSOC MDSCC CDSCC	Aug, 2015 Sep 2015 Sep 2015	Aug 2015 Sep 2015 Sep 2015	32 37 39	Anna Fan, Sheila Garrett	All complexes require installation of DCD 5.1. A minimum of 6 hours is required. Goldstone installation is first, 30 day separation from the next install which will be CDSCC or MDSCC, a minimum of 2 week separation from the 2 <sup>nd</sup> and 3rd install. This is on track.
AZ Track Replacement	DSS-55	Aug 2015	Oct 2015	34 – 44 05 - 14	Pam Rothman, Asim Sehic	Downtime will begin one day late on DOY 230 vice 229 due to Cassini activities.  This is still a go.  This is NIB to XX/Ka Installation
	200 20	2018	2018	00 14		This is this to work motalisation



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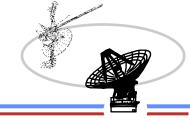


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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
Depot Level Maintenance	DSS-34	Nov 2015	Dec 2015	49 & 50	John Phillips	DSS-34 moved to December time frame with CDSCC concurrence
Antenna Inspections	CDSCC	Jan 2016	Jan 2016	03 & 04	Dave Taylor Andrew Brooks	Moved from week 1 & 2 due to CDSCC Holiday schedule. Unknown status at this time.
APCA	DSS-14 DSS-43 DSS-63	March 2016 Nov 2017 Feb 2018	June 2016 Jan 2018 April 2018	10 – 23 44 – 03 18 – 29	Anna Fan, Barzia Tehrani	DSS-14 extended an additional 2 weeks Antenna Painting added for 4 weeks during downtime DSS-43 extended to 12 weeks  DSS-63 APCA is now stand alone and moved to 2018 at this time.
SWUPS Installation	CDSCC	Apr 5 2016 Apr 20 2016 May 4 2016	Apr 5 2016 Apr 20 2016 May 4 2016	14 16 18	Anna Fan, Dave Taylor	Must be done in daylight. There is a connection to the power house.  Two blocks in a 3 week period. Need to avoid InSight activities. Dave will get a list of the tasks being performed during this downtime. There may al be Fire Detection issues.
Antenna Inspections	MDSCC	Apr 2017	Apr 2017	17 & 18	Dave Taylor Andrew Brooks	Moved from weeks 16 & 17 due to Easter



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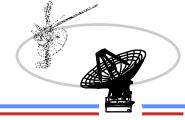


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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
XX/Ka Installation	DSS-25	Jan 2018	April 2018	01 – 14	Wendy Hodgin	XX/Ka requires 14 weeks - AZ Track will be NIB in weeks 05-14
	DSS-24	Apr 30, 2018	Jul 9, 2018	18 – 27		Ka2 Tune-up is NIB weeks 18 & 19 and scheduled prior to JWST launch in 2018 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.
Ka2 Tune-up	DSS-24	Apr 30, 2018	May 13, 2018	18 & 19	Wendy Hodgin	This is NIB to XX/Ka Installation
	DSS-34	May 28, 2018	Jun 4, 2018	22 & 23		
	DSS-54	Sep 3, 2018	Sep 16, 2018	36 & 37		This now scheduled as a prime activity All Ka2 Tune-ups (DSS-24, 34 and 54) must be scheduled prior to JWST launch in October 2018, If JWST launch slips, tune-ups may be slipped also. This is budget/resource driven There is a task to build 4th Ka2/S-Band capabilities.



## Resource Allocation Planning Service



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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
Pedestal Rehab	DSS-54	Feb 2019	Oct 2019	06 – 43	Bernardo Lopez	This downtime has moved tentatively to 2019. More information will follow. There are issues with DSS-54 Ka2 and the pedestal. Suggest moving to DSS-53 pedestal instead of DSS-56. JWST will need Ka2 during launch and LEOP (first 4 months of support)  This Rehab could take 15 – 18 months to complete. 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 after DSS-56 is operational.



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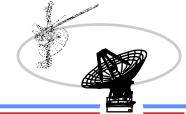
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### 70m Major Downtimes 2014 - 2018

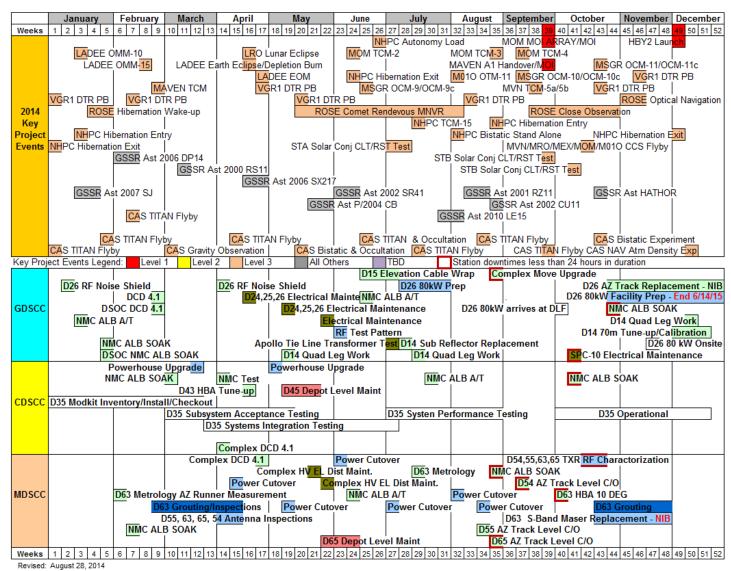
Downtime	Antenna	Start Date	End Date	Weeks	Status	Number of Days	Notes
70m Tune-up Calibration	DSS-14	Dec 1, 2014	Dec 17, 2014	49 – 51	Approved	16	Next downtime is March of 2016
APCA	DSS-14	Mar 7, 2016	Jun 10, 2016	10 – 23	Proposed	95	
70m Tune-up Calibration	DSS-43	Feb 16, 2015	Feb 27, 2015	08 – 09	Approved	10	Next downtime is 2 weeks later
70m Tune-up Calibration	DSS-43	Mar 16, 2015	Apr 3, 2015	12 – 14	Approved	18	Next downtime is October of 2017
APCA	DSS-43	Oct 30, 2017	Jan 19, 2018	44 – 03	Proposed	80	
Grouting S-Band Maser Replacement	DSS-63	Oct 20, 2014	Nov 28, 2014	43 – 48	Approved NIB to Grouting	39	Next downtime is May of 2015
Grouting 70m Tune-up Calibration	DSS-63	May 11, 2015	May 24, 2015	20 – 21	Approved NIB to grouting	13	Next down time is August of 2015
Grouting	DSS-63	Aug 3, 2015	Aug 16, 2015	32 – 33	Approved	14	Next downtime is February of 2016
Grouting	DSS-63	Feb 1, 2016	Mar 3, 2016	05 – 09	Proposed	32	Next downtime is July of 2016
Grouting	DSS-63	Jul 25, 2016	Aug 26, 2016	30 – 34	Proposed	32	Next downtime is February of 2017
Grouting	DSS-63	Feb 20, 2017	Apr 28, 2017	08 – 17	Proposed	67	Next downtime is April of 2018
APCA	DSS-63	Apr 30, 2018	July 20, 2018	18 – 29	Proposed	80	



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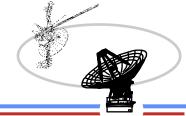


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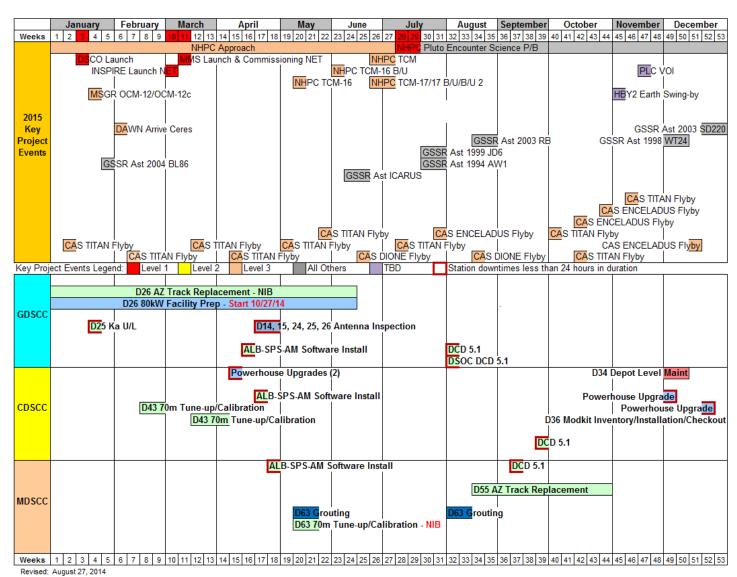


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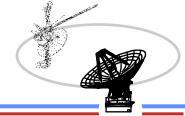


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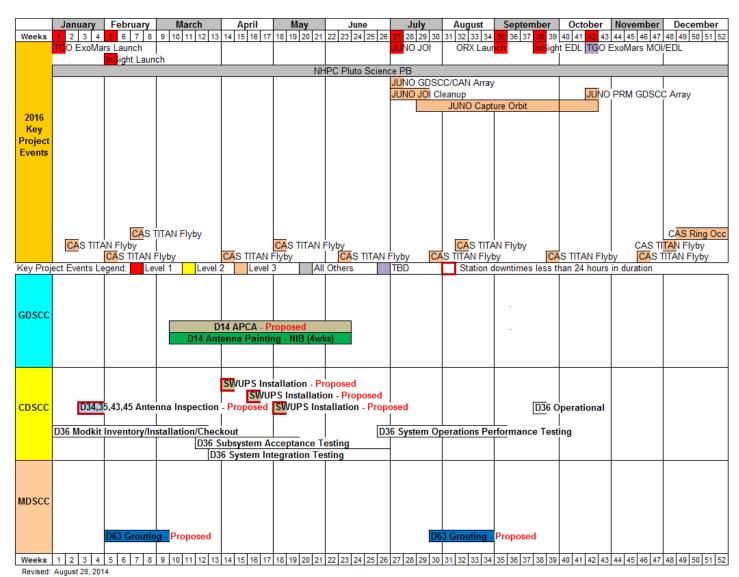


- 2015 -

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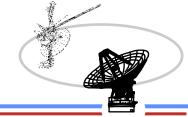


- 2016 -

- 2017 -

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

## Resource Allocation Planning Service

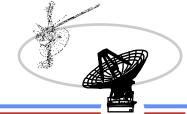


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Revised: August 27, 2014

# Interplanetary Network Directorate (IND) Deep Space Network (DSN) Resource Allocation Planning Service



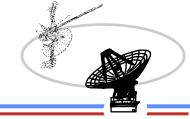
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Revised: August 27, 2014

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- 2018 -

## Resource Allocation Planning Service



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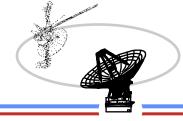
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- 2019 -



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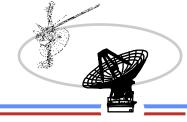


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	2014										
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY				
DSS 54	AZ Track Level C/O	09/11/2014 20:45	09/12/2014 07:00		37 - 37	254	255				
DSS 63	HBA 10 DEG	10/01/2014 22:45	10/02/2014 07:00	0	40 - 40	274	275				
DSS 63	HBA 10 DEG	10/02/2014 22:40	10/03/2014 07:00	0	40 - 40	275	276				
SPC 10	Complex Electrical Maintenance	10/08/2014 12:25	10/09/2014 00:25	0	41 - 41	281	282				
SPC 40	NMC ALB SOAK	10/09/2014 13:20	10/09/2014 19:15	0	41 - 41	282	282				
DSS 55	TXR RF Characterization	10/13/2014 06:00	10/13/2014 15:00	0	42 - 42	286	286				
DSS 54	TXR RF Characterization	10/14/2014 06:00	10/14/2014 15:00	0	42 - 42	287	287				
DSS 63	TXR RF Characterization	10/16/2014 06:00	10/16/2014 15:00	0	42 - 42	289	289				
DSS 65	TXR RF Characterization	10/17/2014 06:00	10/17/2014 15:00	0	42 - 42	290	290				
DSS 55	TXR RF Characterization	10/20/2014 06:00	10/20/2014 15:00	0	43 - 43	293	293				
DSS 63	Grouting	10/20/2014 06:00	11/28/2014 17:00	39	43 - 48	293	332				
DSS 63	S-Band Maser Replacement - NIB	10/20/2014 06:00	11/28/2014 17:00	39	43 - 48	293	332				
DSS 65	TXR RF Characterization	10/21/2014 06:00	10/21/2014 15:00	0	43 - 43	294	294				
DSS 63	TXR RF Characterization	10/23/2014 06:00	10/23/2014 15:00	0	43 - 43	296	296				
DSS 54	TXR RF Characterization	10/24/2014 06:00	10/24/2014 15:00	0	43 - 43	297	297				
DSS 26	80kW Prep	10/27/2014 15:00	06/13/2015 00:00	228	44 - 24	300	164				
DSS 26	AZ Track Replacement - NIB	10/27/2014 15:00	06/13/2015 00:00	228	44 - 24	300	164				
SPC 10	NMC ALB SOAK	11/01/2014 05:20	11/01/2014 09:40	0	44 - 44	305	305				
DSS 14	70M Tune-up/Calibration	12/01/2014 15:00	12/17/2014 16:00	16	49 - 51	335	351				
DSS 14	Quad Leg Work	12/09/2014 14:00	12/11/2014 23:00	2	50 - 50	343	345				



Resource Allocation Planning Service



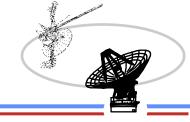
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2015										
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY			
DSS 25	Ka U/L	01/20/2015 15:00	01/20/2015 23:00	0	04 - 04	20	20			
DSS 25	Ka U/L	01/21/2015 15:00	01/21/2015 23:00	0	04 - 04	21	21			
DSS 25	Ka U/L	01/22/2015 15:00	01/22/2015 23:00	0	04 - 04	22	22			
DSS 25	Ka U/L	01/23/2015 15:00	01/23/2015 23:00	0	04 - 04	23	23			
DSS 43	70m Tune-up/Callibration	02/16/2015 21:00	02/27/2015 06:00	10	08 - 09	47	58			
DSS 43	70m Tune-up/Callibration	03/18/2015 01:00	04/03/2015 06:00	16	12 - 14	77	93			
SPC 40	Complex Powerhouse Upgrade	04/09/2015 21:00	04/10/2015 03:00	0	15 - 15	99	100			
SPC 40	Complex Powerhouse Upgrade	04/10/2015 21:00	04/11/2015 03:00	0	15 - 15	100	101			
SPC 10	ALB-SPS-AM Softaware install	04/15/2015 06:00	04/15/2015 12:00	0	16 - 16	105	105			
DSS 14	Antenna Inspection	04/20/2015 15:00	04/21/2015 03:00	0	17 - 17	110	111			
DSS 26	Antenna Inspection	04/21/2015 15:00	04/22/2015 03:00	0	17 - 17	111	112			
DSS 24	Antenna Inspection	04/22/2015 15:00	04/23/2015 03:00	0	17 - 17	112	113			
DSS 25	Antenna Inspection	04/22/2015 15:00	04/23/2015 03:00	0	17 - 17	112	113			
SPC 40	ALB-SPS-AM Softaware install	04/23/2015 13:00	04/23/2015 19:00	0	17 - 17	113	113			
DSS 15	Antenna Inspection	04/23/2015 15:00	04/24/2015 03:00	0	17 - 17	113	114			
DSS 14	Antenna Inspection	04/27/2015 15:00	04/28/2015 03:00	0	18 - 18	117	118			
DSS 26	Antenna Inspection	04/28/2015 15:00	04/29/2015 03:00	0	18 - 18	118	119			
DSS 25	Antenna Inspection	04/29/2015 15:00	04/30/2015 03:00	0	18 - 18	119	120			
DSS 24	Antenna Inspection	04/29/2015 15:00	04/30/2015 03:00	0	18 - 18	119	120			
SPC 60	ALB-SPS-AM Softaware install	04/29/2015 22:00	04/30/2015 04:00	0	18 - 18	119	120			
DSS 15	Antenna Inspection	04/30/2015 15:00	05/01/2015 03:00	0	18 - 18	120	121			
DSS 63	70m Tune-up/Calibration - NIB	05/11/2015 06:00	05/24/2015 17:00	13	20 - 21	131	144			
DSS 63	Grouting	05/11/2015 06:00	05/24/2015 17:00	13	20 - 21	131	144			



## Resource Allocation Planning Service

Jet Propulsion Laboratory
California Institute of Technology



2015										
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY			
DSS 25	Ka U/L	01/20/2015 15:00	01/20/2015 23:00	0	04 - 04	20	20			
DSS 25	Ka U/L	01/21/2015 15:00	01/21/2015 23:00	0	04 - 04	21	21			
DSS 25	Ka U/L	01/22/2015 15:00	01/22/2015 23:00	0	04 - 04	22	22			
DSS 25	Ka U/L	01/23/2015 15:00	01/23/2015 23:00	0	04 - 04	23	23			
DSS 43	70m Tune-up/Callibration	02/16/2015 21:00	02/27/2015 06:00	10	08 - 09	47	58			
DSS 43	70m Tune-up/Callibration	03/18/2015 01:00	04/03/2015 06:00	16	12 - 14	77	93			
SPC 40	Complex Powerhouse Upgrade	04/09/2015 21:00	04/10/2015 03:00	0	15 - 15	99	100			
SPC 40	Complex Powerhouse Upgrade	04/10/2015 21:00	04/11/2015 03:00	0	15 - 15	100	101			
SPC 10	ALB-SPS-AM Softaware install	04/15/2015 06:00	04/15/2015 12:00	0	16 - 16	105	105			
DSS 14	Antenna Inspection	04/20/2015 15:00	04/21/2015 03:00	0	17 - 17	110	111			
DSS 26	Antenna Inspection	04/21/2015 15:00	04/22/2015 03:00	0	17 - 17	111	112			
DSS 24	Antenna Inspection	04/22/2015 15:00	04/23/2015 03:00	0	17 - 17	112	113			
DSS 25	Antenna Inspection	04/22/2015 15:00	04/23/2015 03:00	0	17 - 17	112	113			
SPC 40	ALB-SPS-AM Softaware install	04/23/2015 13:00	04/23/2015 19:00	0	17 - 17	113	113			
DSS 15	Antenna Inspection	04/23/2015 15:00	04/24/2015 03:00	0	17 - 17	113	114			
DSS 14	Antenna Inspection	04/27/2015 15:00	04/28/2015 03:00	0	18 - 18	117	118			
DSS 26	Antenna Inspection	04/28/2015 15:00	04/29/2015 03:00	0	18 - 18	118	119			
DSS 25	Antenna Inspection	04/29/2015 15:00	04/30/2015 03:00	0	18 - 18	119	120			
DSS 24	Antenna Inspection	04/29/2015 15:00	04/30/2015 03:00	0	18 - 18	119	120			
SPC 60	ALB-SPS-AM Softaware install	04/29/2015 22:00	04/30/2015 04:00	0	18 - 18	119	120			
DSS 15	Antenna Inspection	04/30/2015 15:00	05/01/2015 03:00	0	18 - 18	120	121			
DSS 63	70m Tune-up/Calibration - NIB	05/11/2015 06:00	05/24/2015 17:00	13	20 - 21	131	144			
DSS 63	Grouting	05/11/2015 06:00	05/24/2015 17:00	13	20 - 21	131	144			



## Resource Allocation Planning Service

Jet Propulsion Laboratory
California Institute of Technology

	2015												
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY						
DSS 63	Grouting	08/03/2015 05:00	08/16/2015 17:00	14	32 - 33	215	228						
SPC 10	DCD V5.1	08/05/2015 17:00	08/05/2015 23:00	0	32 - 32	217	217						
GCF 20	DSOC DCD V5.1	08/05/2015 17:00	08/05/2015 23:00	0	32 - 32	217	217						
DSS 55	AZ Track Replacement	08/18/2015 06:00	10/30/2015 17:00	73	34 - 44	230	303						
SPC 60	DCD V5.1	09/09/2015 07:00	09/09/2015 13:00	0	37 - 37	252	252						
SPC 40	DCD V5.1	09/24/2015 22:00	09/25/2015 04:00	0	39 - 39	267	268						
DSS 34	Depot Level Maintenance	11/30/2015 21:00	12/11/2015 05:00	10	49 - 50	334	345						
SPC 40	Complex Powerhouse Upgrade	12/04/2015 21:00	12/05/2015 09:00	0	49 - 49	338	339						
SPC 40	Complex Powerhouse Upgrade	12/21/2015 21:00	12/22/2015 03:00	0	52 - 52	355	356						



## Resource Allocation Planning Service

Jet Propulsion Laboratory
California Institute of Technology

	2016											
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY					
DSS 43	Antenna Inspection - Proposed	01/19/2016 22:00	01/20/2016 14:00	1	03 - 03	19	20					
DSS 34	Antenna Inspection - Proposed	01/20/2016 22:00	01/21/2016 14:00	1	03 - 03	20	21					
DSS 45	Antenna Inspection - Proposed	01/21/2016 22:00	01/22/2016 14:00	1	03 - 03	21	22					
DSS 35	Antenna Inspection - Proposed	01/21/2016 22:00	01/22/2016 14:00	1	03 - 03	21	22					
DSS 43	Antenna Inspection - Proposed	01/26/2016 22:00	01/27/2016 06:00	0	04 - 04	26	27					
DSS 34	Antenna Inspection - Proposed	01/27/2016 22:00	01/28/2016 06:00	0	04 - 04	27	28					
DSS 45	Antenna Inspection - Proposed	01/28/2016 22:00	01/29/2016 06:00	0	04 - 04	28	29					
DSS 63	Grouting - Proposed	02/01/2016 06:00	03/04/2016 17:00	32	05 - 09	32	64					
DSS 14	Antenna Painting 4wks NIB	03/07/2016 15:00	06/11/2016 00:00	95	10 - 23	67	163					
DSS 14	APCA - Proposed	03/07/2016 15:00	06/11/2016 00:00	95	10 - 23	67	163					
SPC 40	SWUPS Installation - Proposed	04/05/2016 21:00	04/06/2016 09:00	0	14 - 14	96	97					
SPC 40	SWUPS Installation - Proposed	04/20/2016 21:00	04/21/2016 09:00	0	16 - 16	111	112					
SPC 40	SWUPS Installation - Proposed	05/04/2016 21:00	05/05/2016 09:00	0	18 - 18	125	126					
DSS 63	Grouting - Proposed	07/25/2016 06:00	08/26/2016 17:00	32	30 - 34	207	239					



## Resource Allocation Planning Service

Jet Propulsion Laboratory
California Institute of Technology

	2017												
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY						
DSS 63	Grouting	02/20/2017 06:00	04/28/2017 17:00	67	08 - 17	51	118						
DSS 55	Antenna Inspection - Proposed	04/24/2017 07:00	04/24/2017 23:00	1	17 - 17	114	114						
DSS 65	Antenna Inspection - Proposed	04/25/2017 07:00	04/25/2017 23:00	1	17 - 17	115	115						
DSS 63	Antenna Inspection - Proposed	04/26/2017 07:00	04/26/2017 23:00	1	17 - 17	116	116						
DSS 54	Antenna Inspection - Proposed	04/27/2017 07:00	04/27/2017 23:00	1	17 - 17	117	117						
DSS 55	Antenna Inspection - Proposed	05/01/2017 07:00	05/01/2017 15:00	0	18 - 18	121	121						
DSS 65	Antenna Inspection - Proposed	05/02/2017 07:00	05/02/2017 15:00	0	18 - 18	122	122						
DSS 54	Antenna Inspection - Proposed	05/05/2017 07:00	05/05/2017 15:00	0	18 - 18	125	125						
DSS 43	APCA - Proposed	10/30/2017 21:00	01/19/2018 06:00	80	44 - 03	303	19						



## Resource Allocation Planning Service

Jet Propulsion Laboratory
California Institute of Technology

	2018											
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY					
DSS 25	XX/Ka Installation	01/04/2018 15:00	04/07/2018 00:00	92	01 - 14	4	97					
DSS 25	AZ Track Replacement - NIB	01/29/2018 15:00	04/07/2018 00:00	67	05 - 14	29	97					
DSS 14	Antenna Inspection	04/09/2018 15:00	04/10/2018 06:00	1	15 - 15	99	100					
DSS 26	Antenna Inspection	04/10/2018 15:00	04/11/2018 06:00	1	15 - 15	100	101					
DSS 25	Antenna Inspection	04/11/2018 15:00	04/12/2018 06:00	1	15 - 15	101	102					
DSS 15	Antenna Inspection	04/12/2018 15:00	04/13/2018 06:00	1	15 - 15	102	103					
DSS 14	Antenna Inspection	04/16/2018 15:00	04/17/2018 00:00	0	16 - 16	106	107					
DSS 26	Antenna Inspection	04/17/2018 15:00	04/18/2018 00:00	0	16 - 16	107	108					
DSS 24	Antenna Inspection	04/18/2018 15:00	04/19/2018 06:00	1	16 - 16	108	109					
DSS 24	Ka2 Tune-up - NIB	04/30/2018 15:00	05/13/2018 00:00	12	18 - 19	120	133					
DSS 24	XX/Ka Installation	04/30/2018 15:00	07/07/2018 00:00	67	18 - 27	120	188					
DSS 63	APCA	04/30/2018 21:00	07/20/2018 06:00	80	18 - 29	120	201					
DSS 34	Ka2 Tune-up - Proposed	05/28/2018 21:00	06/04/2018 06:00	6	22 - 23	148	155					
DSS 54	KA2 Tune-up	09/03/2018 07:00	09/14/2018 17:00	11	36 - 37	246	257					



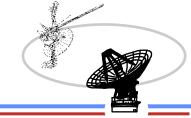
## Resource Allocation Planning Service

Jet Propulsion Laboratory
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	2019										
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY				
DSS 54	Pedestal Rehab	02/05/2019 06:00	10/26/2019 17:00	263	06 - 43	36	299				



### Resource Allocation Planning Service



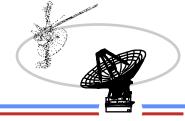
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### Future assets new/upgrades

DSS-35 Installation and Operational 2013 – 2014 Modkit Installation October 1, 2013 – March 21, 2014 weeks 47 – 12 Acceptance Testing March 5, 2014 – May 6, 2013, weeks 10 – 19 System Integration Testing March 14, 2014 – June 30, 2014 weeks 13 – 27 Operations Systems Performance Testing June 30, 2014 – August 28, 2014, weeks 27 - 35 Operational October 1, 2014 DSS-26 80kW Installation 2014 – 2015 80kW arrive at DLF February 9, 2015 DDR September, 2015, week 38 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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### Antenna Downtime Status and Forecast

### DSN Resource Implementation Planning Matrix by Complex

			S-B	and	Х-В	and	Ka-E	Band	Ka	X-Band	80KW
Complex	Station	Subnet	Down	Up	Down	Up	Down	Up	Phase 2	ACQ AID	OUITA
10	DSS-23*	34B2	N/A	N/A	10/01/24	10/01/24	10/01/24	10/01/24	N/A	N/A	N/A
10	DSS-24	34B1	١	>	١	١	N/A	N/A	7	•	N/A
10	DSS-25	34B2	N/A	N/A	۲	۲	۲	۲	N/A	N/A	N/A
10	DSS-26	34B2	N/A	N/A	۲	۲	۲	N/A	N/A	N/A	10/01/15
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	N/A
40	DSS-34	34B1	~	>	~	~	~	N/A	~	~	N/A
40	DSS-35*	34B2	N/A	N/A	10/01/14	10/01/14	10/01/14	N/A	N/A	N/A	N/A
40	DSS-36*	34B2	N/A	N/A	10/01/16	10/01/16	10/01/16	N/A	N/A	N/A	N/A
40	DSS-45	34HEF	`	•	~	~	N/A	N/A	N/A	N/A	N/A
40	DSS-43	70M	•	•	•	•	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	N/A
60	DSS-54	34B1	>	>	>	>	>	N/A	>	~	N/A
60	DSS-55	34B2	N/A	N/A	<b>y</b>	<b>y</b>	<b>y</b>	N/A	N/A	N/A	N/A
60	DSS-56*	34B2	N/A	N/A	10/01/19	10/01/19	10/01/19	N/A	N/A	N/A	N/A
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

N/A = Not Applicable or Capability Not Planned

xx/xx/xx = Capability Date Recently Changed

✓ ✓ = Capability Recently Exists

✓ = Capability Exists

\* = To Be Commissioned

As of: 8/1/2014