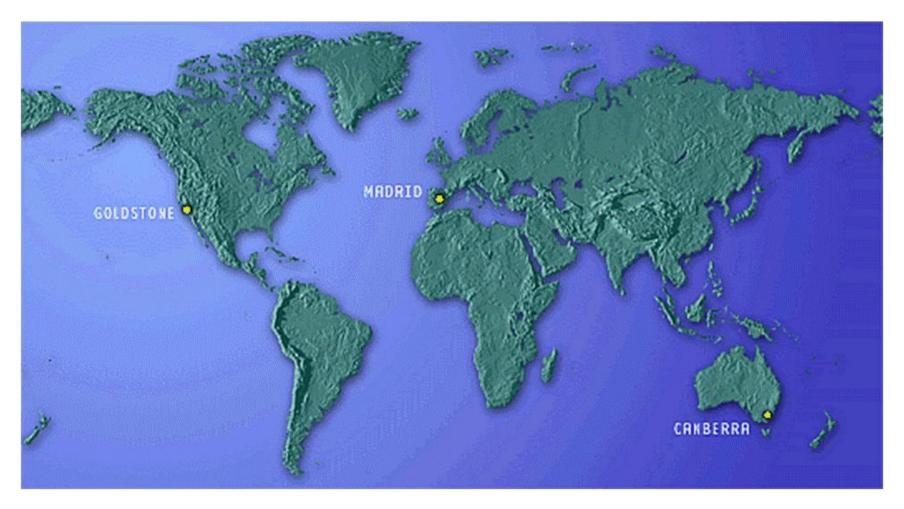


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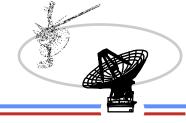
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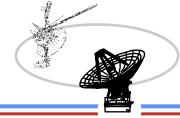
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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
Quad Leg Work	DSS-14	May 2014	Dec 2014	19, 29, 50	David Allen, Erik Holmgren	Quad Leg Work downtime requires a total of 12 prime shift days with tracking available off shift Week 50 has two days, Tues and Thurs. Dropped material through reflector panel, additional days were added in December downtime to make repairs and replace reflector panel. Work will be NIB to 70M Tune-up/Calibration.
NMC ALB SOAK	CDSCC GDSCC	Oct 2014 Oct 2014	Oct 2014 Oct 2014	41 44	Jim Buckley, Shirley Cizmar, Dave	CDSCC was completed. GDSCC was completed.
NMC SPS AM Install	GDSCC CDSCC MDSCC	April 2015 April 2015 April 2015	April 2015 April 2015 April 2015	16 17 18	Taylor	NMC SPS AM downtime was requested at the July downtime meeting scheduled for April 2015 timeframe
NMC D3.2 I&T, AT NMC D3.3 I&T AT, and SOAK	GDSCC CDSCC MDSCC	Dec 2014 May 2015 May 2015	Feb 2015 OCT 2015 Oct 2015			Requested four 4-6hour downtimes for NMC D3.2 I&T and AT from Nov 2014 – Feb 2015. Will start in December after Rosetta Landing and HYB2 Launch Requested three 4-6hour downtimes for D3.3 I&T, AT, and SOAK from mid 2014 to late 2015. The last downtime will be NMC D3.3 SOAK requested for Oct. 2015. RAP/Sched. is currently looking for best fit



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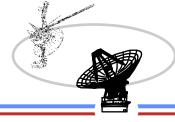


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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
HBA 10 DEG	DSS-63	Oct 2014	Oct 2014	40	David Munoz Mochon, Bernardo Lopez	Requested two additional nights in Oct. timeframe, HBA 10 DEG task in week 40 is complete.
Complex wide Electrical Maintenance	SPC-10	Oct 2014	Oct 2014 Feb	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 Week 41 Electrical Maintenance task is complete.
Power Transfer	DSS-24, 25, 26 (Apollo)	Feb 2015	Feb 2015	09	Hill Reus	This 16-hour Power Transfer downtime was requested by Hill Reus. It scheduled at Apollo Valley during off-shift hours
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. TXR RF Characterization in weeks 42 & 43 are complete.



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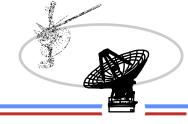
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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
Grouting	DSS-63	Oct 2014 May 2015 Aug 2015 Feb 2016 Jul 2016 Feb 2017	Nov 2014 May 2015 Aug 2015 Mar 2016 Aug 2016 Apr 2017	43 – 48 20 & 21 32 & 33 05 – 09 30 – 34 08 – 17	Dave Taylor, David Munoz Mochon, Bernardo Lopez, Asim Sehic	An additional week (43) was added to first grouting in 2014 in preparation for the DSN 50 th anniversary. Nov. 2014, S-Band Maser Replacement is NIB May 2015, 70m Tune-up and calibration is NIB May 2015 grouting. Groutings are only 2 weeks to allow support of NHPC May need to delay Grouting task in Feb by approximately 26 hours and July's Grouting by approximately 50 hours due to Cas. Activities. Five weeks is scheduled but may need additional time. Per mission requirements in 2017 have reduced time to 10 weeks and will place APCA downtime as stand alone in 2018. The SHMT will be worked on 11/3, Engineer will be there in early November.
80kW Installation	DSS-26	Oct 2014	June 2015	44 – 24	Erik Holmgren Pam Rothman, Daniel Olson	Downtime will start in week 44 of 2014 and end week 24 of 2015. 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.



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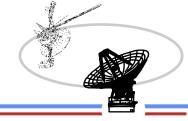
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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
70M Tune-up and calibration	DSS-43 DSS-43 DSS-63	Dec 1, 2014 Mar 18, 2015 Aug 18, 2015 May 2015	Dec 19, 2014 April 3, 2015 Aug 28, 2015 May 2015	49 – 51 12 – 14 34 – 35 20 & 21	Jose Perez Dave Taylor David Allen John Phillips	The Tune-up Calibrations are In preparation for NHPC Pluto Encounter Extended two extra days to install the new L-Band feed horn, and additional time. Subreflector, quad leg tasks and Fabrication replacement will be NIB Additional time added to replace time lost in 2014 during HBA John and Dave will compare tasks for DSS-14 & DSS-43. DSS-43 Tune-up was moved from week 8 & 9 to weeks 34 & 35 due to Dawn's safing event 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. Times slightly reduced at request due to missions requirements.
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 The complex submitted a list of six new downtimes they would like in 2015/2016. RAP/Sched is currently looking at options



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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
Antenna Inspections/ TXR RF Characterization	GDSCC CDSCC MDSCC	Apr 2015 Apr 2018 Jan 2016 Apr 2017	Apr 2015 Apr 2018 Jan 2016 Apr 2017	17 & 18 15 & 16 03 & 04 17 & 18	Dave Taylor Andrew Brooks Harout Matossian	2015 Antenna Inspections moved from weeks 13 & 14. Check with engineer to confirm if TXR RF Characterization is needed in 2015. Moved from week 1 & 2 due to CDSCC Holiday schedule. Unknown status at this time. Moved from weeks 16 & 17 due to Easter. Inspections require 12 hours, 8 hours NIB to maintenance with 4 hours following for TXR RF Characterization during inspections.
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 nd and 3 rd install. This is on track.
AZ Track Replacement	DSS-55	Aug 2015 Feb 2018	Oct 2015 Apr 2018	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



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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
APCA	DSS-14 DSS-43 DSS-63	Mar 7, 2016 Oct 30, 2017 Apr 30, 2018	Jun 10, 2016 Jan 19, 2018 Jul 20, 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	May 19 2016 May 24 2016 May 26 2016	May 19 2016 May 24 2016 May 26 2016	20 21	Anna Fan, Dave Taylor	Must be done in daylight, Downtimes moved from 1 12-hour block in weeks 14, 16, and 18 to 12-hour block in week 20 and 2 blocks in week 21 There is a connection to the power house. Two blocks in a 3 week period. Need to avoid InSight activities. There may be a Fire Detection issues. This might be combined with Powerhouse Commission into 1 task. A vendor has to been selected



Resource Allocation Planning Service



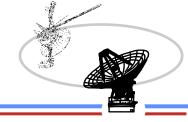
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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
Ka2 Tune-up	DSS-54	Jan 23, 2017	Feb 3, 2017	04 & 05	Wendy Hodgin	These downtimes are being moved to 2017 with DSS-54 being the first Tune-up. All Tune-ups will be standalone. These need to
	DSS-24	Mar 13, 2017	Mar 24, 2017	11 & 12		be completed prior to the end of June 2017. This is budget/resource driven There is a task to build 4th Ka2/S-Band
	DSS-34	May 14, 2017	May 26, 2017	20 & 21		capabilities.
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		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.
Pedestal Rehab	DSS-54	Nov 4, 2019	Apr 30, 2021	46 – 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.



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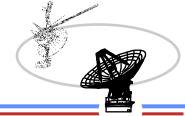


70m Major Downtimes 2014 - 2018

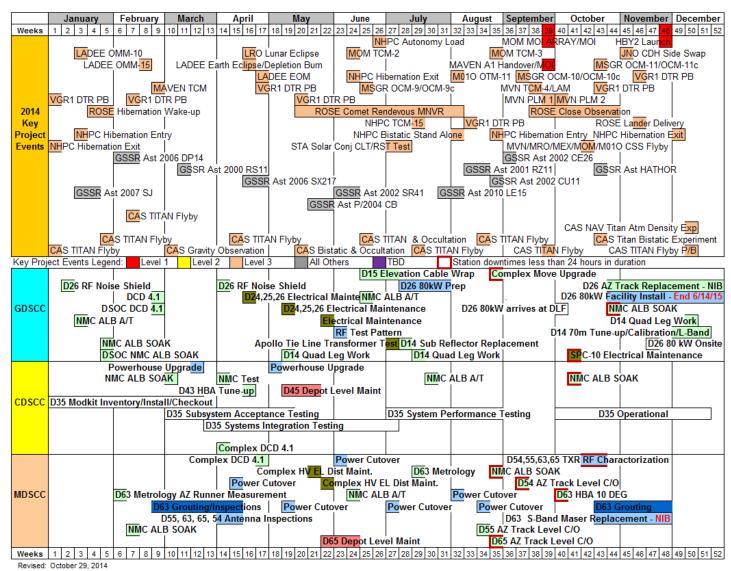
Downtime	Antenna	Start Date	End Date	Weeks	Status	Number of Days	Notes and next downtime date
70m Tune-up Calibration	DSS-14	Dec 1, 2014	Dec 19, 2014	49 – 51	Approved	18	Extended for additional tasks Next downtime March of 2016
APCA	DSS-14	Mar 7, 2016	Jun 10, 2016	10 – 23	Proposed	95	
70m Tune-up Calibration	DSS-43	Mar 16, 2015	Apr 3, 2015	12 – 14	Approved	18	Next downtime is August of 2017
70m Tune-up Calibration	DSS-43	Aug 18, 2015	Aug 28, 2015	34 – 35	Approved	10	Moved from week 8&9 due to Dawn safing event 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. May shift due to CAS activities
Grouting	DSS-63	Jul 25, 2016	Aug 26, 2016	30 – 34	Proposed	32	Next downtime is February of 2017. May shift due to CAS activities
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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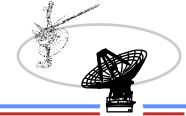


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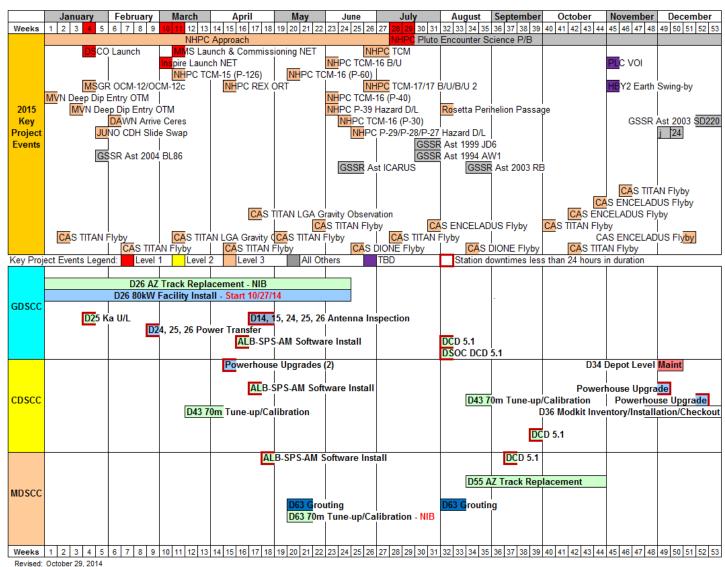


- 2014 -

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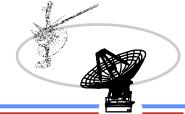


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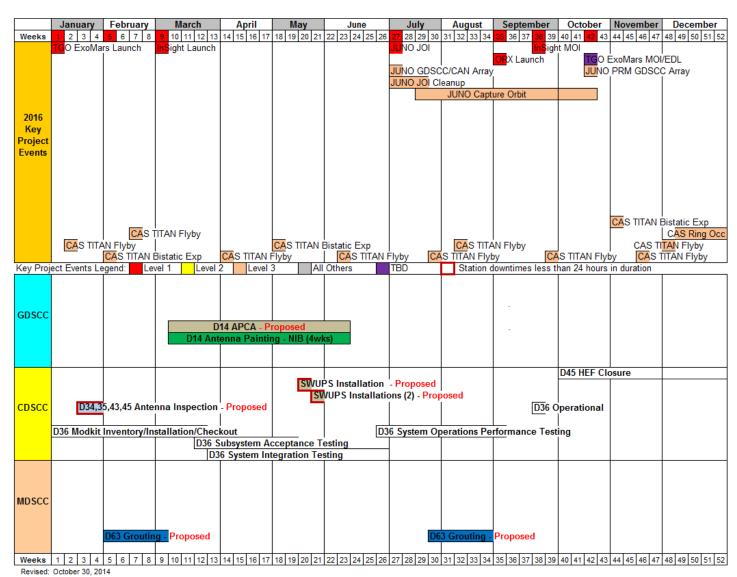


- 2015 -

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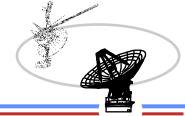


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Revised: October 30, 2014

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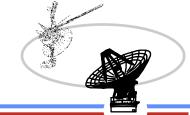
- 2017 -



- 2018 -

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

Resource Allocation Planning Service



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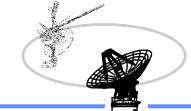
Revised: October 29, 2014

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Key Project Events																								
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- 2019 -



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



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	January	February	March	April	May	June	July	August	September	October 40 41 42 43 44	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
2020 Key Project Events										HYB2	P Earth Re-Er	try
Key Proje	ect Events Lege	end: Level	1 Level	2 Level	3 All Ot	hers	TBD	Station dow	ntimes less t	han 24 hours in o	duration	
GDSCC												
CDSCC												
					D54 Pedist	al Rehab en	d April 2021	- Proposed				
MDSCC					D54 S	ervo/XMTR I	Replacemen	t - NIB				
					L				<u> </u>			
		D53	Modkit Insta	Ilation, Syst	em Integration	and System	Level Testin	ng		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

- 2020 -

- 2021 -

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

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		January	February	March	April	May	June	July 26 27 28 29 30	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
	2021 Key Project Events												
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	GDSCC												
	CDSCC												
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ŀ	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



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	2014											
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY					
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 26	80kW Install	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					
DSS 14	70M Tune-up/Calibration	12/01/2014 15:00	12/19/2014 13:00	18	49 - 51	335	353					
DSS 14	Quad Leg Work	12/09/2014 14:00	12/11/2014 23:00	2	50 - 50	343	345					



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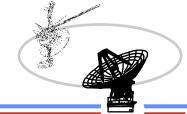
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		20:	15				
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 25	Ka U/L	01/20/2015 15:00	01/20/2015 23:00	0	04 - 04	20	20
DSS 25	Ka U/L	01/21/2015 15:00	01/21/2015 23:00	0	04 - 04	21	21
DSS 25	Ka U/L	01/22/2015 15:00	01/22/2015 23:00	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 24	Power Transfer	02/25/2015 23:00	02/26/2015 15:00	1	09 - 09	56	57
DSS 25	Power Transfer	02/25/2015 23:00	02/26/2015 15:00	1	09 - 09	56	57
DSS 26	Power Transfer	02/25/2015 23:00	02/26/2015 15:00	1	09 - 09	56	57
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



Resource Allocation Planning Service

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	2015											
Site	Details	Start End D		Duration (Days)	Weeks	Start DOY	End DOY					
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					
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 43	70m Tune-up/Callibration	08/17/2015 21:00	08/28/2015 06:00	10	34 - 35	229	240					
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					



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		20:	16				
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



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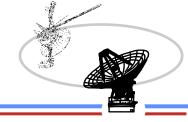
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	2017											
Site	Details	Start	Start End		Weeks	Start DOY	End DOY					
DSS 54	Ka2 Tune-up - Proposed	01/23/2017 07:00	02/03/2017 17:00	11	04 - 05	23	34					
DSS 63	Grouting	02/20/2017 06:00	04/28/2017 17:00	67	08 - 17	51	118					
DSS 24	Ka2 Tune-up - Proposed	03/13/2017 15:00	03/25/2017 00:00	11	11 - 12	72	84					
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 34	Ka2 Tune-up - Proposed	05/14/2017 21:00	05/26/2017 06:00	11	19 - 21	134	146					
DSS 43	APCA - Proposed	10/30/2017 21:00	01/19/2018 06:00	80	44 - 03	303	19					



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	2018											
Site	Details	Start	Start End		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	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					



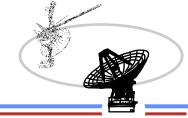
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	2019										
Site Details		Start End		Duration (Days)	Weeks	Start DOY	End DOY				
DSS 54	Pedestal Rehab	11/04/2019 06:00	04/30/2021 17:00	543	45 - 17	308	120				
DSS 54	Servo Replacement - NIB	11/04/2019 06:00	04/30/2021 17:00	543	45 - 17	308	120				
DSS 54	Transmitter Replacement - NIB	11/04/2019 06:00	04/30/2021 17:00	543	45 - 17	308	120				



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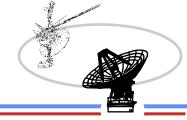
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Future assets new/upgrades

- ☐ 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



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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	~	•	~	~	N/A	N/A	7	~	N/A
10	DSS-25	34B2	N/A	N/A	~	~	•	۲	N/A	N/A	N/A
10	DSS-26	34B2	N/A	N/A	~	~	•	N/A	N/A	N/A	10/01/15
10	DSS-15	34HEF	~	7	~	~	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	~	~	~	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	~	~	~	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: 10/1/2014