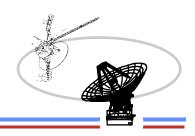
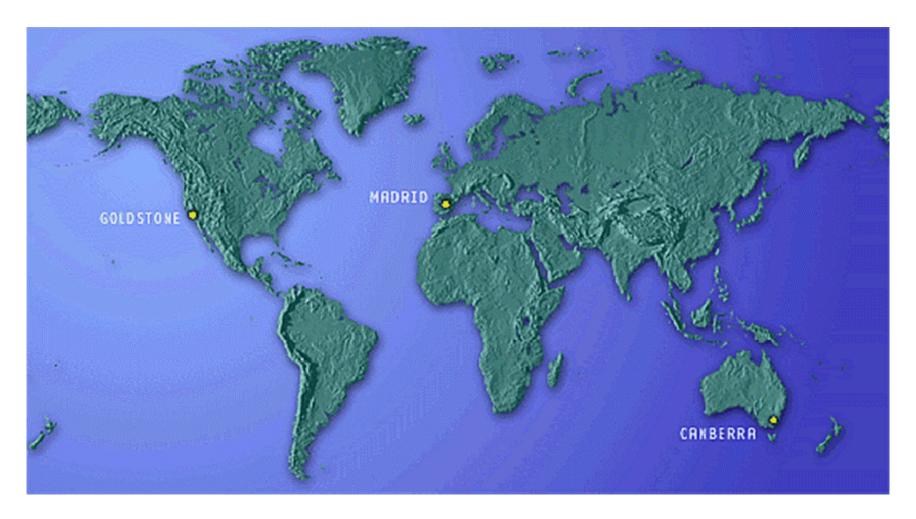


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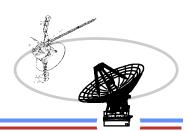
DSN Antenna Downtime Status and Forecast



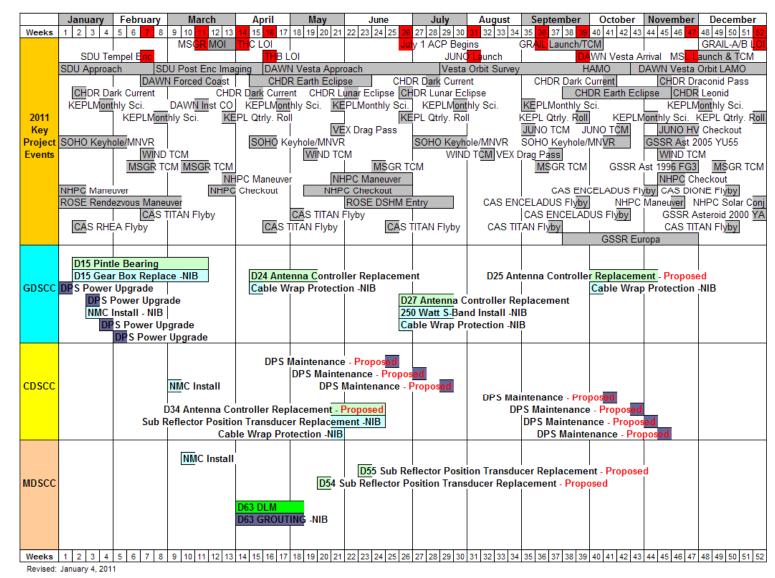
Wash.

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

Resource Allocation Planning Service

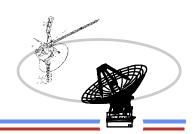


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- 2011 -

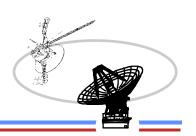




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	2011													
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY							
SPC 10	DPS Power Upgrade	01/04/2011 21:05	01/05/2011 12:05	1	01 - 01	4	5							
DSS 15	Gear Box Replacement-NIB	01/10/2011 00:00	03/20/2011 00:00	69	02 - 11	10	79							
DSS 15	Pintle Bearing	01/10/2011 00:00	03/20/2011 00:00	69	02 - 11	10	79							
SPC 10	DPS Power Upgrade	01/17/2011 18:30	01/18/2011 06:30	0	03 - 03	17	18							
SPC 10	DPS Power Upgrade	01/18/2011 19:00	01/19/2011 07:00	0	03 - 03	18	19							
SPC 10	NMC Installation - NIB	01/20/2011 19:15	01/21/2011 01:15	0	03 - 03	20	21							
SPC 10	DPS Power Upgrade	01/20/2011 19:15	01/21/2011 07:15	0	03 - 03	20	21							
SPC 10	DSP Power Upgrade	01/21/2011 18:30	01/22/2011 06:30	0	03 - 03	21	22							
SPC 10	DPS Power Upgrade	01/24/2011 19:30	01/25/2011 07:30	0	04 - 04	24	25							
SPC 10	DPS Power Upgrade	01/25/2011 19:30	01/26/2011 07:30	0	04 - 04	25	26							
SPC 10	DPS Power Upgrade	01/27/2011 19:50	01/28/2011 07:50	0	04 - 04	27	28							
SPC 10	DPS Power Upgrade	01/28/2011 18:45	01/29/2011 06:45	0	04 - 04	28	29							
SPC 10	DPS Power Upgrade	01/31/2011 19:45	02/01/2011 07:45	0	05 - 05	31	32							
SPC 40	NMC Installation	03/03/2011 07:45	03/04/2011 13:45	1	09 - 09	62	63							
SPC 60	NMC Installation	03/12/2011 21:15	03/13/2011 03:15	0	10 - 10	71	72							
DSS 63	Depot Level Maintenance	04/04/2011 00:00	05/08/2011 00:00	34	14 - 18	94	128							
DSS 63	Grouting - NIB	04/04/2011 00:00	05/08/2011 00:00	34	14 - 18	94	128							
DSS 24	Cable Wrap Protection - NIB	04/11/2011 00:00	04/14/2011 00:00	3	15 - 15	101	104							
DSS 24	Antenna Controller Replacement	04/11/2011 00:00	05/15/2011 00:00	34	15 - 19	101	135							
DSS 54	Subreflector Position Transducer Replacement - Proposed	05/17/2011 00:00	05/20/2011 00:00	3	20 - 20	137	140							



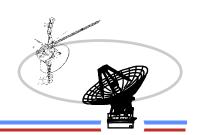


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DSN Downtime 2011 (Continued)

	2011													
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY							
DSS 34	Cable Wrap Protection - NIB	05/23/2011 00:00	05/26/2011 00:00	3	21 - 21	143	146							
DSS 34	Antenna Controller Replacement - Proposed	05/23/2011 00:00	06/19/2011 00:00	27	21 - 24	143	170							
DSS 34	Subreflector Position Transducer Replacement - NIB	05/23/2011 00:00	06/19/2011 00:00	27	21 - 24	143	170							
DSS 55	Subreflector Position Transducer Replacement - Proposed	06/07/2011 00:00	06/10/2011 00:00	3	23 - 23	158	161							
SPC 40	DPS Maintenance - Proposed	06/23/2011 20:00	06/24/2011 08:00	0	25 - 25	174	175							
DSS 27	Cable Wrap Protection - NIB	06/27/2011 00:00	06/30/2011 00:00	3	26 - 26	178	181							
DSS 27	250 Watt S-Band Install - NIB	06/27/2011 00:00	07/24/2011 00:00	27	26 - 29	178	205							
DSS 27	Antenna Controller Replacement	06/27/2011 00:00	07/24/2011 00:00	27	26 - 29	178	205							
SPC 40	DPS Maintenance - Proposed	07/04/2011 20:00	07/05/2011 08:00	0	27 - 27	185	186							
SPC 40	DPS Maintenance - Proposed	07/18/2011 20:00	07/19/2011 08:00	0	29 - 29	199	200							
DSS 25	Cable Wrap Protection - NIB	10/03/2011 00:00	10/06/2011 00:00	3	40 - 40	276	279							
DSS 25	Antenna Controller Replacement - Proposed	10/03/2011 00:00	11/06/2011 00:00	34	40 - 44	276	310							
SPC 40	DPS Maintenance - Proposed	10/10/2011 20:00	10/11/2011 08:00	0	41 - 41	283	284							
SPC 40	DPS Maintenance - Proposed	10/24/2011 20:00	10/25/2011 08:00	0	43 - 43	297	298							
SPC 40	DPS Maintenance - Proposed	10/31/2011 20:00	11/01/2011 08:00	0	44 - 44	304	305							
SPC 40	DPS Maintenance - Proposed	11/07/2011 20:00	11/08/2011 08:00	0	45 - 45	311	312							





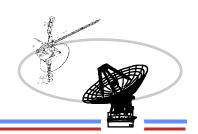
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Antenna Downtime Status and Forecast

The following are downtimes for 2011

□ DSS-15 downtime for Pintle Bearing is scheduled for January 10 – March 20, weeks 02 - 11 □ Elevation Gearbox Replacement is scheduled NIB □ ZDD is scheduled for February 28 ☐ Goldstone 12-hour Complex Wide DPS Power Upgrade Downtime is scheduled for Monday, Tuesday, Thursday and Friday, January 17, 18, 20, 21, week 03, January 24, 25, 27, 28, week 04 and January 31, week 05 ☐ Times are scheduled based on Stardust requirements prior to Tempel Encounter ☐ This needs to be completed by the end of January per AQMD requirements. ☐ An additional 15 hour downtime was scheduled for January 4, week 01 ☐ NMC 6-hour Complex Wide Downtime is scheduled at all complexes ☐ Goldstone is scheduled for January 20, 1915 – 0115, NIB to DPS Power Upgrade in week 03 □ Canberra is scheduled for March 3 DOY 62, 0745 – 1345, week 09 □ Madrid is scheduled for March 12 DOY 71, 2115 – 0315, week 10 ☐ Canberra 7 12-hour blocks of Complex Wide DSCC Power Substation (DPS) Maintenance Downtime is requested for April – September ☐ This is proposed during day shift (2000 – 0800) in weeks 25, 27, 29, 41, 43, 44 and 45



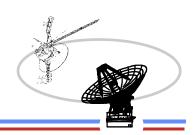


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Antenna Downtime Status and Forecast

Downtimes for 2011 (continued)
 DSS-63 downtime for Depot Level Maintenance is scheduled Downtime scheduled for April 4 – May 8, weeks 14 – 18 Grouting will be scheduled NIB
 BWG Antenna Controller Replacement is requested starting in April DSS-24 is scheduled for April 11 – May 15, weeks 15 – 19 DSS-34 is proposed for May 23 – June 19, weeks 21 – 24 Sub Reflector Position Transducer Replacement will be scheduled NIB DSS-27 is scheduled for June 27 – July 24, weeks 26 – 29 250 Watt S-Band Install will be scheduled NIB Note: The above downtimes must be in this order with a 1 week break between each DSS-25 is proposed for October 3 – November 6, weeks 40 – 44 Note: Cable Wrap Protection for each BWG ACR requires 3 days and will be NIB to the first week of the downtime
 Sub Reflector Position Transducer Replacement is requested for May and August DSS 54 is proposed for May 17, 18 and 19, DOY 137, 138 and 139, week 20 DSS 55 is proposed for June 7, 8 and 9, DOY 158, 159 and 160, week 23 This downtime can be scheduled as early as possible and can run back to back

Resource Allocation Planning Service

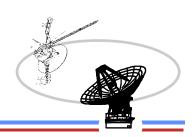


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	January	February	March	April	May	June	July	August	September	October	November	December
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Revised:	January 3, 201	1										

- 2012 -

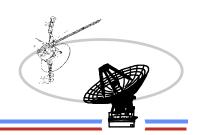




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		2012					
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 26	Cable Wrap Protection - NIB	03/12/2012 00:00	03/15/2012 00:00	3	43 - 43	72	75
DSS 26	Antenna Controller Replacement - Proposed	03/12/2012 00:00	04/08/2012 00:00	27	43 - 47	72	99
DSS 63	70m Tune-up/Calibration - NIB	05/07/2012 00:00	05/27/2012 00:00	20	19 - 21	128	148
DSS 63	Grouting - Proposed	05/07/2012 00:00	05/27/2012 00:00	20	19 - 21	128	148
DSS 14	70m Tune-up/Calibration - Proposed	05/28/2012 00:00	05/31/2012 00:00	3	22 - 22	149	152
DSS 25	Cable Wrap Protection - NIB	06/11/2012 00:00	06/14/2012 00:00	3	24 - 24	163	166
DSS 43	70m Tune-up/Calibration - NIB	06/11/2012 00:00	06/26/2012 00:00	15	24 - 26	163	178
DSS 43	Grouting - Proposed	06/11/2012 00:00	06/26/2012 00:00	15	24 - 26	163	178
DSS 25	Antenna Controller Replacement - Back-up Plan Proposed	06/11/2012 00:00	07/15/2012 00:00	34	24 - 28	163	197
DSS 54	AZ Track Replacement - Proposed	09/10/2012 00:00	10/21/2012 00:00	41	37 - 42	254	295
DSS 54	Cable Wrap Protection - NIB	10/22/2012 00:00	10/25/2012 00:00	3	43 - 43	296	299
DSS 54	Antenna Controller Replacement - Proposed	10/22/2012 00:00	11/25/2012 00:00	34	43 - 47	296	330





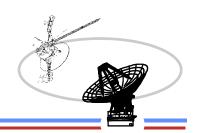
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Antenna Downtime Status and Forecast

The following are downtimes for 2012 – 2014

BWG Antenna Controller Replacement for 2012 – 2013
 □ DSS-26 is proposed for March 12 – April 8, weeks 11 – 14 □ DSS-25 is proposed for June 11 – July 15, weeks 24 – 28
☐ This is a backup for 2011 based on GRAIL launch schedule ☐ DSS-54 is proposed for October 22 – November 25, weeks 43 – 47 ☐ DSS 55 is proposed for Japuary 14 — February 17, 2013, weeks 03 — 07
□ DSS-55 is proposed for January 14 – February 17, 2013, weeks 03 – 07 Note: Cable Wrap Protection for each BWG ACR requires 3 days and will be NIB to the first week of the downtime
DSS-63 downtime for Grouting is requested once per year □ 2012 is proposed for May 7 – 27, weeks 19 – 21 □ Tune-up/Calibration will be scheduled NIB □ 2013 is proposed for September 2 – 17, weeks 36 – 38 □ Stand alone Grouting requires 15 days
DSS-14 downtime for Tune-up/Calibration is requested for May 28 – 31, 2012, week 22
DSS-43 downtime for Grouting is requested for 2012 ☐ This is proposed for June 11 – June 25, weeks 24 – 26 ☐ Tune-up/Calibration will be scheduled NIB





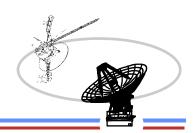
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Antenna Downtime Status and Forecast

The following are downtimes for 2012 – 2014 (continued)

AZ Track Replacement is requested for DSS-54, 24 and 26 beginning in the fall of 2012. The following sequence is proposed □ DSS-54 is proposed for September 10 – October 21, 2012, weeks 37 – 42 □ DSS-24 is proposed for April 22 – June 30, 2013, weeks 17 – 26 □ DSS-26 is proposed for March 31 – June 8, 2014 weeks 14 – 23 □ 80 kW Facility Preparation will be scheduled NIB March 31 – May 18, weeks14 – 20
DSS-43 HBA Upgrade Downtime is proposed for 2013 ☐ Downtime committee is proposing January 7 – August 11, weeks 02 – 32 ☐ ZDD will be scheduled prior to return to service
DSS-63 HBA Upgrade Downtime is proposed for 2014 □ Downtime committee is proposing March 10 – October 5, weeks 11– 40 □ ZDD will be scheduled prior to return to service

Resource Allocation Planning Service



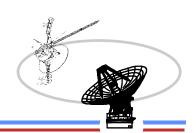
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Revised: January 3, 2011

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- 2013 -

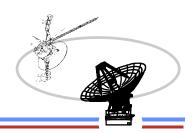




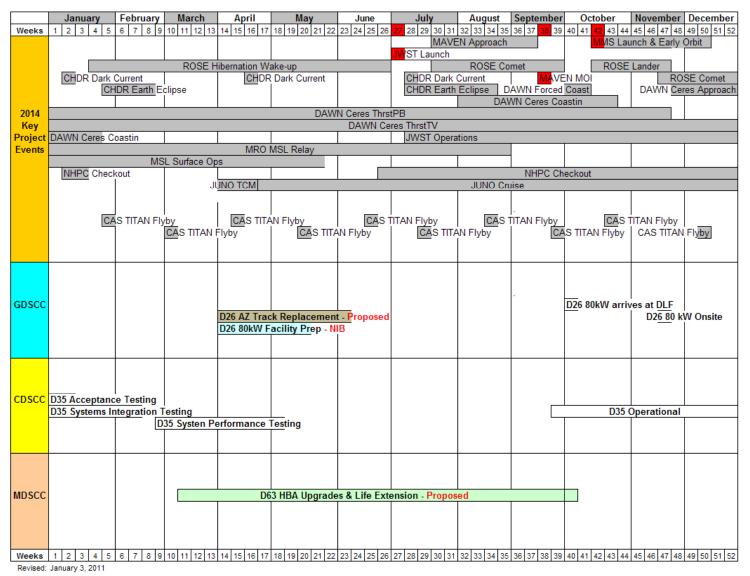
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	2013														
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY								
DSS 43	HBA Upgrades and Life Extension - Proposed	01/07/2013 00:00	08/11/2013 00:00	216	02 - 32	7	223								
DSS 55	Cable Wrap Protection - NIB	01/14/2013 00:00	01/17/2013 00:00	3	03 - 03	14	17								
DSS 55	Antenna Controller Replacement - Proposed	01/14/2013 00:00	02/17/2013 00:00	34	03 - 07	14	48								
DSS 24	AZ Track Replacement - Proposed	04/22/2013 00:00	06/30/2013 00:00	69	17 - 26	112	181								
DSS 63	Grouting - Proposed	09/02/2013 00:00	09/17/2013 00:00	15	36 - 38	245	260								

Resource Allocation Planning Service

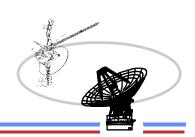


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- 2014 -

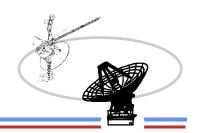




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		2014					
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 63	HBA Upgrades and Life Extension - Proposed	03/10/2014 00:00	10/05/2014 00:00	209	11 - 40	69	278
DSS 26	80 kW Facility Prep - NIB	03/31/2014 00:00	05/18/2014 00:00	48	14 - 20	90	138
DSS 26	AZ Track Replacement - Proposed	03/31/2014 00:00	06/08/2014 00:00	69	14 - 23	90	159

Resource Allocation Planning Service



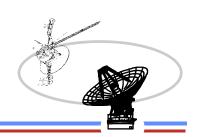
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Revised: January 3, 2011

	January F						ary	March	April May			June July			July	August Septe				otember October			November	December		
Weeks			3 4		6	7	3 9	10 11 12 13	14 15 16 17 18	19	20 21 22	23	24 2	25 26	27	28 29 30 31		33 34 35	36	37 38 39	40 41	42	43 44		49 50 51 52 53	
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Weeks	1	2	3 4	1 5	6	7	9	10 11 12 13	14 15 16 17 18	19	20 21 22	23	24 2	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	

- 2015 -

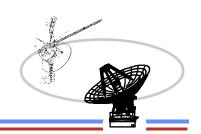




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		2015					
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 25	AZ Track Replacement - Proposed	03/31/2015 00:00	06/07/2015 00:00	68	14 - 23	90	158





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Antenna Downtime Status and Forecast

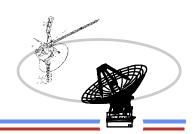
The following are downtimes for 2015 – 2016

- ☐ AZ Track Replacement is requested for DSS-25 and 55
 - \square DSS-25 is proposed for March 31 June 7, 2015, weeks 14 23
 - □ DSS-55 is proposed for February 1 April 10, 2016, weeks 05 14
 - □ 80 kW Facility Preparation is scheduled NIB for February 1 March 20, weeks 05 11

- 2016 -

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

Resource Allocation Planning Service

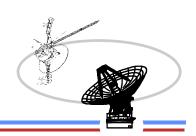


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	January	February	March	April	May	June	July	August	September	October	November	December
Weeks	1 2 3 4	5 6 7 8	March 9 10 11 12 13	14 15 16 17	18 19 20 21	22 23 24 25 26	27 28 29 30	31 32 33 34	35 36 37 38 39	40 41 42 43	44 45 46 47	December 48 49 50 51 52
2016 Key Project Events					E ∞oMars							
GDSCC												
CDSCC			D35 Install 80)kW			D35 80kV	N Test	D35 D	DR		
MDSCC			k Replacemer Facility Prep -							5 80kW to D	<u>D5</u>	5 80kW on site
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
Devised:	January 3, 201											

Revised: January 3, 2011





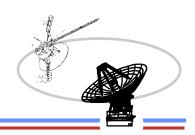
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		2016					
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 55	80 kW Facility Prep - NIB	02/01/2016 00:00	03/20/2016 00:00	48	05 - 11	32	80
DSS 55	AZ Track Replacement - Proposed	02/01/2016 00:00	04/10/2016 00:00	69	05 - 14	32	101

- 2017 -

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

Resource Allocation Planning Service

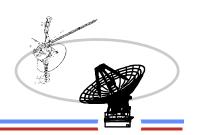


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		Jan	uary	1	Feb	ruai	ν	I	Marc	h		April	ı	M	ay		Jur	ne		J	uly		Au	qust	S	epte	embe	r O	ctobe	r	Nov	ember	D	ecemb	er
Weeks	1	2	3	4	5 6	7	8	9 10	11	12 13	14	15 16	17	18 19	20 21	22 2	23 24	4 25 2	26 2	7 28	29 3	0 31	32 3	33 34 3	35 3	6 37	38 39	40 4	41 42	43	44 45	46 47 4	18 49	ecemb 50 51	52
2017 Key Project Events																																			
GDSCC																									-										
CDSCC																																			
MDSCC										Insta				40.45	lan la						55 Tes			201041				555 DE				40 47	10.45	9 50 51	

Revised: January 3, 2011

Resource Allocation Planning Service

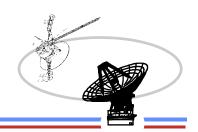


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Future assets new/upgrades

DSS-35 Installation and Operational 2013 – 2014 ☐ Modkit Installation October 1 – November 19, 2013, weeks 40 - 47 ☐ Acceptance Testing October 23, 2013 – January 8, 2014, weeks 43 – 2 ☐ System Integration Testing November 20, 2013 – February 13, 2014, weeks 47 – 07 ☐ Operations Systems Performance Testing February 27 – May 1, 2014, weeks 09 – 18 ☐ Operational September 26, 2014
DSS-26 80kW Installation 2014 − 2015 ■ 80kW arrive at DLF October, 2014, week 40 ■ 80kW arrive on-site November, 2014, week 47 ■ 80kW install January − June, 2015, weeks 02 − 25 ■ 80 kW test June − September, 2015, weeks 24 − 36 ■ DDR September, 2015, week 38
DSS-35 80kW Installation 2016 – A placeholder has been set awaiting dates
DSS-36 Installation and Operational 2016 – A placeholder has been set awaiting dates
DSS-55 80kW Installation 2016 − 2017 ■ 80kW Facility Prep − February 2016, weeks 05 − 10 ■ 80kW at DLF September, 2016, week 39 ■ 80kW on-site November, 2016, week 47 ■ 80kW install January − June, 2017, weeks 01 − 24 ■ 80kW test June − September, 2017, weeks 24 − 37 ■ DDR September, 2017, week 39





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Antenna Downtime Status and Forecast

			S-B	and	Х-В	and	Ka-E	Band	Ka 2	X-Band	
Complex	Station	Subnet	Down	Up	Down	Up	Down	Up	Na Z	ACQ AID	80kW
10	DSS-27	34HSB	✓	>	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10	DSS-24	34B1	~	>	>	>	N/A	N/A	<	>	N/A
40	DSS-34	34B1	<	>	>	~	>	N/A	~	~	N/A
60	DSS-54	34B1	~	>	~	>	>	N/A	~	~	N/A
10	DSS-25	34B2	N/A	N/A	>	>	>	12/12/10	N/A	N/A	N/A
10	DSS-26	34B2	N/A	N/A	>	>	>	N/A	N/A	N/A	10/01/15
40	DSS-35*	34B2	N/A	N/A	11/01/14	11/01/14	11/01/14	N/A	N/A	N/A	11/01/16
40	DSS-36*	34B2	N/A	N/A	11/01/16	11/01/16	11/01/16	N/A	N/A	N/A	N/A
60	DSS-55	34B2	N/A	N/A	~	>	>	N/A	N/A	N/A	10/01/17
10	DSS-15	34HEF	~	N/A	>	>	N/A	N/A	N/A	N/A	N/A
40	DSS-45	34HEF	~	>	>	>	N/A	N/A	N/A	N/A	N/A
60	DSS-65	34HEF	~	>	>	>	N/A	N/A	N/A	N/A	N/A
10	DSS-14	70M	>	>	Y	>	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-63	70M	✓	~	V	>	N/A	N/A	N/A	N/A	N/A

N/A = Capability Not Planned

xx/xx/xx = Capability Date Recently Changed

✓ ✓ = Capability Recently Exists

y = Capability Exists

* = To Be Commissioned

As of:

6/28/2010