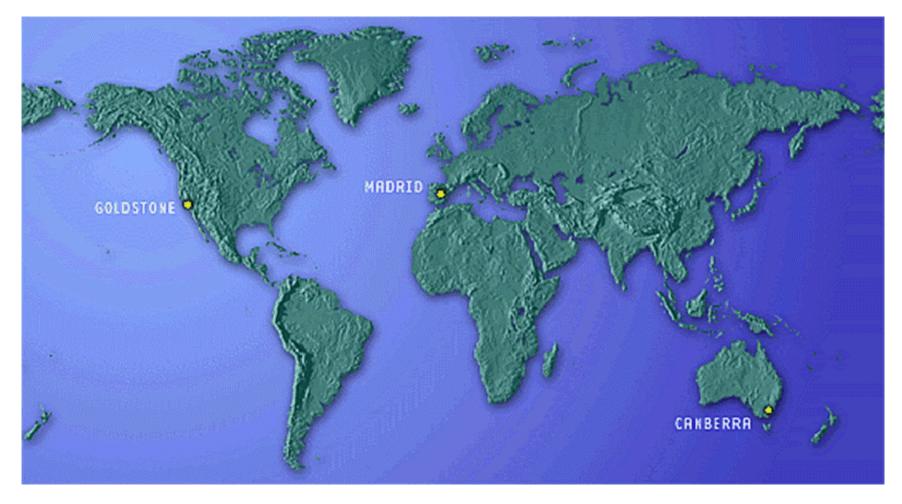
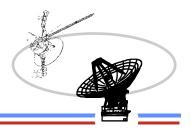


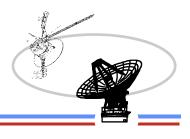
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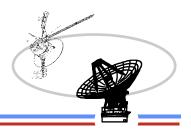
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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
Complex downtime for Power House Commission	CDSCC	Jan 2013	Jun 2013	03, 04, 05, 09, 13, 21, 22, 25	John Phillips, Rob Mehrkish	Prime shift hours are requested for 3 hours each 5 blocks in May, spilt between weeks 21and 22 Week 21 and 22 have been completed 2 blocks in June, week 25
Complex downtime for G86 Power Cutover	GDSCC	Feb 2013	Sep 2013	08, 14, 17, 22, 25, 29, 33, 37	Hill Reus, Richard Fleig, Tony Medeiros	Request 16 hours each block Week 29 hours changed to start off shift due to project activities in that week. Week 32 rescheduled for week 33 due to JUNO activities and extension of DSS-63 grouting into week 32 Week 37 was cancelled, weeks 25, 29 and 33 remain to be completed
Complex downtime for NMC Automated Link Build (ALB)	GDSCC CDSCC	Mar 2013 July 2013	Oct 2013 July 2013	10, 12, 17, 24, 32, 38, 42 30	Jim Buckley, Dave Taylor, Shirley Cizmar	Request 6 – 8 hours each block – days/times flexible Week 10 scheduled Mar 4 for 7 hours Week 12 scheduled Mar 18 for 7 hours Week 15 released to G86 Week 17 scheduled Apr 24 for 8 hours and Apr 28 for 8 hours to replace time released to G86 in week 15 Initially added to week 32 then moved to week 30 for 8 hours
HBA Prep Metrology – HBA Joints T/S & AZ Runner Measurements	DSS-63	Apr 16, 2013 Jun 27 2013	Apr 16, 2013 June 27 2013	16 26	Tim Sink	Added week 16 DOYs, 106, 107, 108 for HBA Joints T/S (completed) Week 26 DOY's 175, 176 and 178 for AZ Runner Measurements



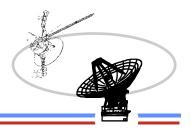
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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
AZ Track Replacement DSS-55, 25 Primary task	DSS-24 DSS-26 DSS-55	Apr 29, 2013 Mar 10, 2014 Mar 9,	Jul 12, 2013 Jun 20, 2014 Jun 26,	18 – 28 11 – 26 11 – 21	Pam Rothman, Asim Sehic Hal	ZDD is required NIB during DSS-24 downtime Added Gain Select Installation NIB on a Best Efforts Basis (BEB
changed from Reconfig. Prep to AZ Track Replacement	DSS-25	2015 Jan 29, 2018	2015 Apr 9, 2018	05 – 14	Ahlstrom	XX/Ka Installation is scheduled NIB during DSS-25 downtime is proposed
Gain Select Installation	DSS-26	May 28, 2013	Jun 4, 2013	22 & 23	Chris Link, Juan Ocampo, Harout Matossian	Install, test and accept all the components for the gain select task. NIB to G86 Power on DOY 148 and prime with maintenance on DOY 151 Demo scheduled NIB to Power Robustness in week 23 - Completed
	DSS-34	Jun 24 2013	Jul 14 2013	26 – 28		For each week this maintenance will be NIB to DSS-34 Gain Select
	DSS-25	Jun 2013	Jun 2013	24 – 26		Weeks 24 and 26 downtimes will be prime with DSS-25 Maintenance NIB, week 25 NIB to Maint.
	DSS-65	Jun 2013	Jun 2013	25 – 27		For each week this downtime will be NIB to DSS- 65 Maintenance
	DSS-45	Jul 2013	Jul 2013	27 – 29		For each week this maintenance will be NIB to DSS-45 Gain Select
	DSS-54	Sep 2013	Oct 2013	39 - 41		For each week this downtime will be NIB to DSS- 54 Maintenance



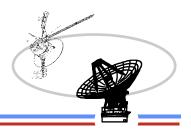
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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
Power Robustness	GDSCC	Jun 2013	Jun 2013	23	Hill Reus, Chris Jeffries	Request 2 10 hour blocks Daylight hours only STB Demo scheduled for Gain Select Installation
BWG Antenna Controller Replacement	DSS-55	Jun 10, 2013	Jul 19, 2013	24 – 29	Anna Fan, Barzia Tehrani Juan Ocampo	Depot Level Maintenance NIB Added Gain Select Installation NIB (BEB) Study requested for extended into into week 30
Grouting	DSS-63	2013 2014 2014 2015 2015 2016 2016	2013 2014 2014 2015 2015 2016 2016	29 - 32 $10 - 13$ $45 - 48$ $19 & 20$ $32 & 33$ $18 - 21$ $44 - 47$	Pam Rothman, Dave Taylor, David Munoz Bernardo Lopez, Asim Sehic	An additional 5 days added. Need to be done prior to JUNO TCM. DLM Maintenance - NIB Requesting 2 additional groutings each in 2014 – 2016 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 If HBA Upgrade is not approved for 2017, 2 additional grouting will be scheduled in 2017, 9 months apart
Antenna Efficiency Measurement	DSS-55	Jun 22, 2013	Jun 26, 2013	30	Pete Hames	Request 5 days (10 hours each) of daylight to test and make sure that the antenna is meeting performance levels, for all aspects of antenna efficiency, as specified in 810-005.



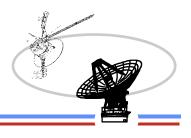
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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
HEF Maser Replacement	DSS-15 DSS-65 DSS-45	Aug 19, 2013 Aug 2015 Oct 2015	Nov 9, 2013 Nov 2015 Jan 2016	34 - 45 34 - 43 44 - 04	Anna Fan, Chris Link	Replacing Maser LNA with HEMT LNA 250W S-Band & Depot Level Maintenance NIB Shifted from weeks 32-43 to weeks 34-45 Added Gain Select Installation NIB (BEB) Proposed date. No Depot Level Maintenance at this time Proposed date. No Depot Level Maintenance at this time
Complex downtime for acceptance testing and NMC Automated Link Build (ALB) SOAK	GDSCC MDSCC CDSCC	Jan 2014 Feb 2014 Mar 2014	Jan 2014 Feb 2014 Mar 2014	03 07 10	Jim Buckley, Shirley Cizmar, Dave Taylor	Request 6 – 8 hours per block at each complexAdditional downtime Requested early 2014Request received to move to Jan instead of MarRequest was received to move from week 05 tomid FebRequest to move NMC ALB SOAK to Mar insteadof Jan
Complex downtime for SPC-60 Power Cutover	MDSCC	Dec 2013	May 2014	50 2013 03, 07, 11, 15, 19 2014	Anna Fan, Rob Mehrkish, Javier Lopez- Perea	Request 12 hours blocks of prime shift hours, but hours are negotiable. Maintenance blocks for DSS-54, 55, and 65 are NIB for 8-hours to proposed downtimes in week 50 of 2013, and weeks 03, 07,11, 15, and 19 of 2014.



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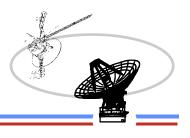
Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
DCD 4.1 software	GDSCC and DSOC	Jan 8, 2014	Jan 9, 2014	02	Anna Fan, Susan Zia	These are proposed dates at this time
	CDSCC	Jan 2014	Feb 2014	03, 08		
	MDSCC	Mar 6, 2014	Mar 6, 2014	10		
Depot Level Maintenance	DSS-45 DSS-65 DSS-34	Jan 2014 April 2014 Jan 2015	Feb 2014 May 2014 Feb 2015	05 – 08 17 - 20 05 - 08	John Phillips, David Munoz Mochon John Phillips	Recurring task to optimize antennas Requested Feb 2013
Antenna Inspections	MDSCC	Mar 2014 Aug 2017	Mar 2014 Aug 2017	12 & 13 35 & 36	Anna Fan, Neil Bucknam	These are proposed dates at this time
70M Tune-up and calibration	DSS-14	Dec 1, 2014	Dec 15, 2014	49 & 50	John	These are proposed dates at this time and are In preparation for NHPC Pluto Encounter
	DSS-43	Mar 9, 2015	Mar 21, 2015	11 & 12	Phillips	



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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
Antenna Inspections	GDSCC	May 2015 Apr 2018	May 2015 Apr 2018	22 & 23 15 & 16	Anna Fan, Neil Bucknam, Daniel Olson	These are proposed dates at this time
Antenna Inspections	CDSCC	Jan 2016	Jan 2016	1&2	Anna Fan, Dave Taylor, Neil Bucknam, Daniel Olson	2016 – During DSS-45 Maser Replacement
HEF Transmitter Replacement	DSS-15 DSS-45 DSS-65	Oct 3, 2016 Jan 16, 2017 Sep 11, 2017	Jan 13, 2017 Apr 8, 2017 Dec 1, 2017	40 - 02 03 - 14 37 - 48	Wendy Hodgin	These are proposed dates at this time



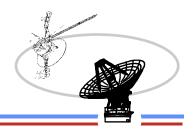


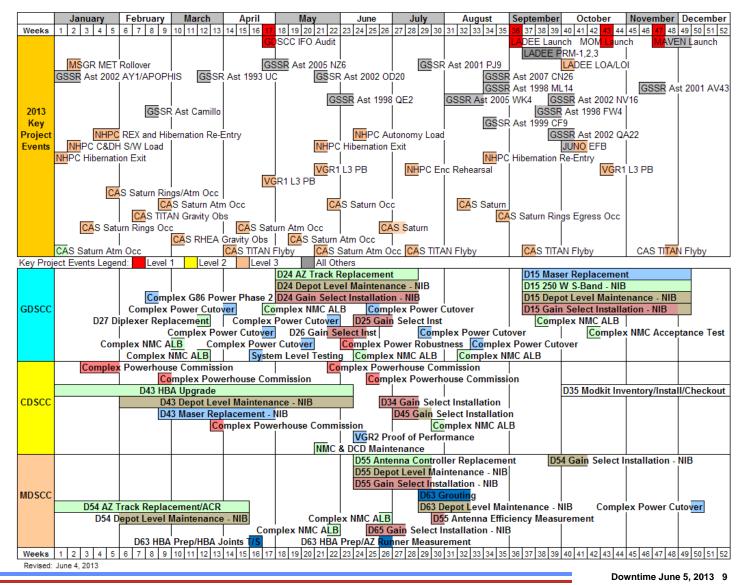
Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
SWUPS Installation	CDSCC	Nov 2, 2016 Nov 16, 2016 Nov 30, 2016	Nov 3, 2016 Nov 17, 2016 Dec 1, 2016	44 46 48	Pete Hames	These blocks are proposed at this time 12 hour blocks for each downtime Must be done in daylight. There is a connection to the power house.
HBA Upgrade and Life Extension	DSS-63	Jan 30, 2017	Sep 8, 2017	05 – 36	Dave Taylor, Bernard o Lopez	This is proposed at this time Maser Replacement is NIB Tentative date, may move to 2018
Pedestal Rehab	DSS-54	Jan 8, 2018	Sep 28, 2018	02 – 39	Ben Saldua	This is proposed at this time This date may change based on need Ka2 Tune-up is NIB weeks 36 & 37 and scheduled prior to JWST launch in 2018
XX/Ka Installation	DSS-24	Apr 30, 2018	Jul 9, 2018	18 - 27	Wendy Hodgin	This is proposed at this time
Ka2 Tune-up	DSS-24	May 1, 2018	May 13, 2018	18 & 19	Wendy Hodgin	Both Ka2 Tune-ups must be scheduled prior to JWST launch in October 2018, budget/resource driven
Ka2 Tune-up	DSS-34	May 28, 2018	Jun 4, 2018	22 & 23		



- 2013 -

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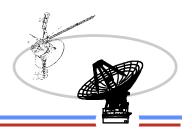


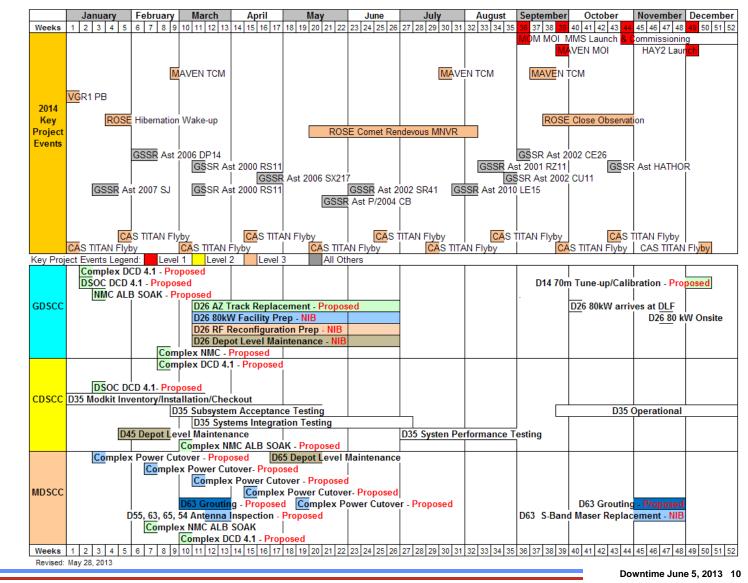




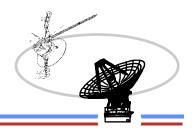
- 2014 -

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

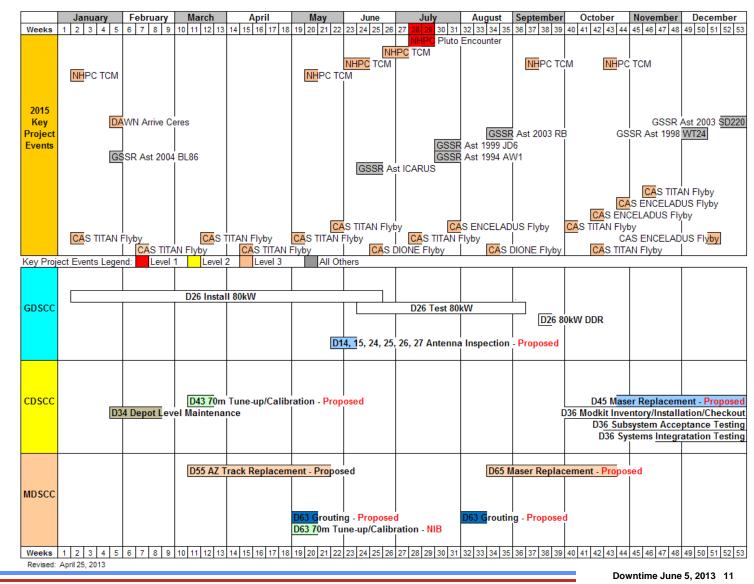






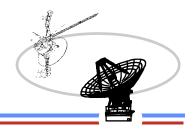


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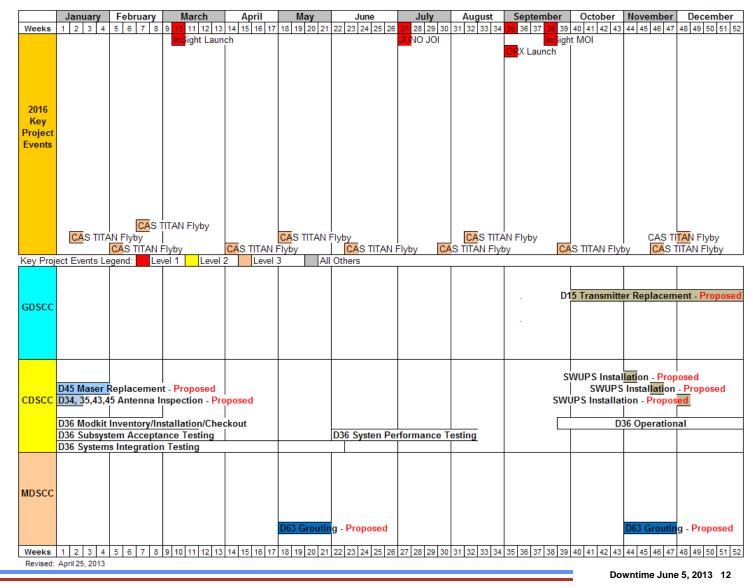


- 2015 -



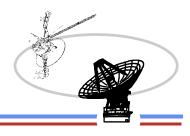


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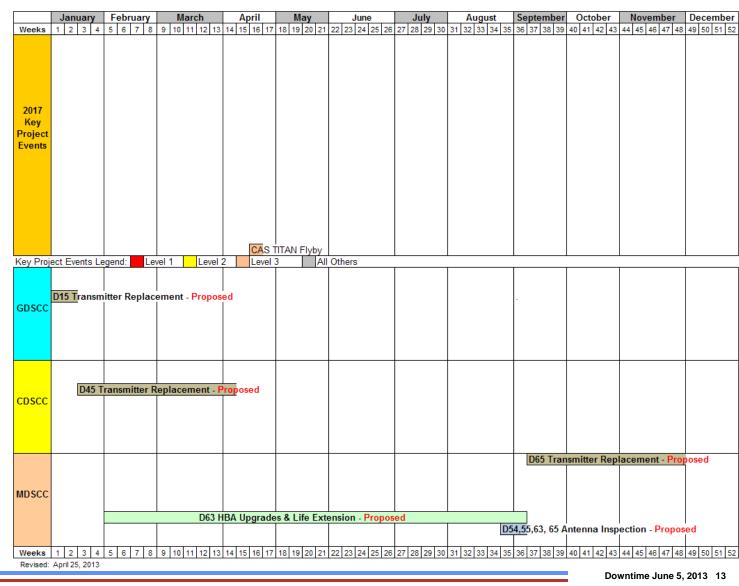


- 2016 -





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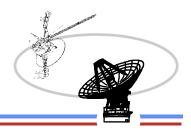


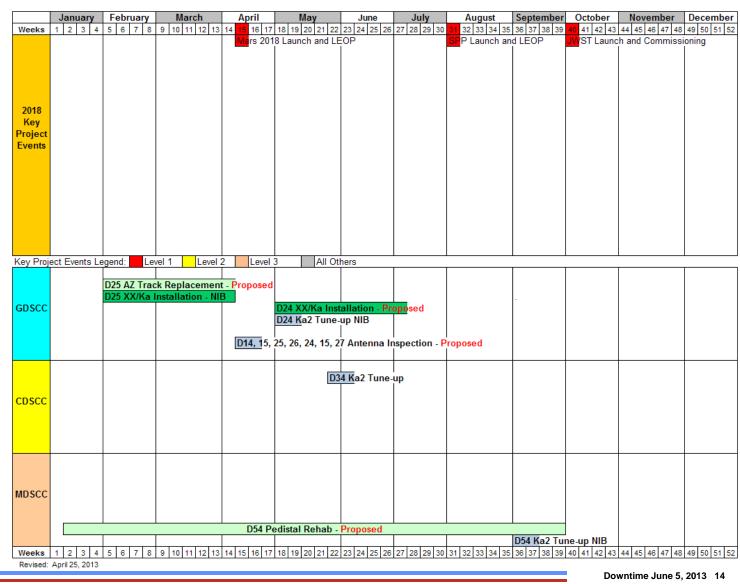
- 2017 -



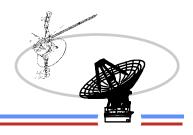
- 2018 -

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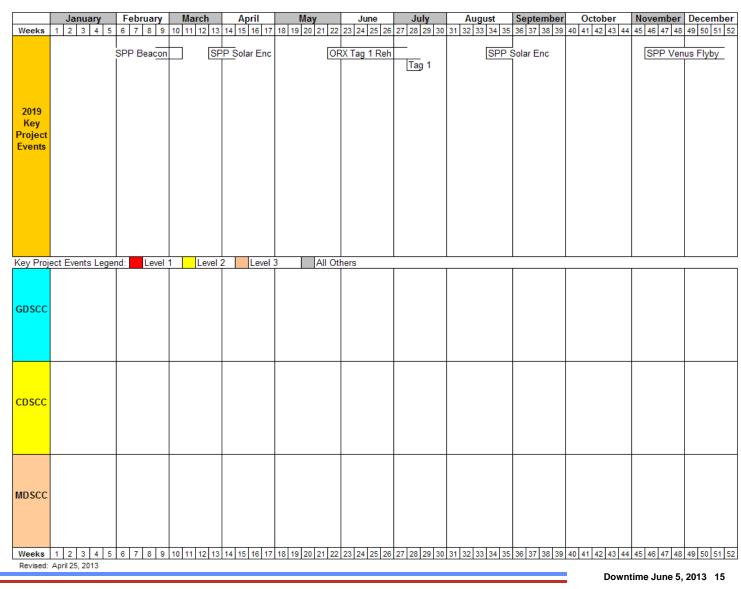








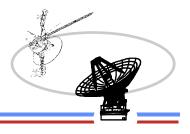
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- 2019 -

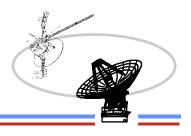
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Interplanetary Network Directorate (IND) Deep Space Network (DSN) Resource Allocation Planning Service



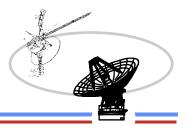
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		2013					
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 43	Depot Level Maintenance - NIB	02/04/2013 00:00	06/10/2013 07:00	126	06 - 24	35	161
DSS 24	AZ Track Replacement	04/29/2013 15:00	07/13/2013 00:00	74	18 - 28	119	194
DSS 24	Depot Level Maintenance - NIB	04/29/2013 15:00	07/13/2013 00:00	74	18 - 28	119	194
DSS 24	Gain Select Installation - NIB	04/29/2013 15:00	07/13/2013 00:00	74	18 - 28	119	194
DSS 26	Gain Select Installation	05/31/2013 13:25	05/31/2013 22:50	0	22 - 22	151	151
SPC 10	Power Robustness	06/03/2013 15:00	06/04/2013 03:00	0	23 - 23	154	155
DSS 26	Gain Select Installation Eng Demo - NIB	06/04/2013 15:00	06/04/2013 18:05	0	23 - 23	155	155
SPC 10	Power Robustness	06/04/2013 15:00	06/05/2013 03:00	0	23 - 23	155	156
DSS 55	Antenna Controller Replacement	06/10/2013 05:00	07/19/2013 19:10	40	24 - 29	161	200
DSS 55	Depot Level Maintenance - NIB	06/10/2013 05:00	07/19/2013 19:10	40	24 - 29	161	200
DSS 55	Gain Select Installation - NIB	06/10/2013 05:00	07/19/2013 19:10	40	24 - 29	161	200
SPC 10	NMC Automated Link Build	06/15/2013 04:35	06/15/2013 10:35	0	24 - 24	166	166
DSS 25	Gain Select Installation	06/12/2013 15:00	06/12/2013 23:00	0	24 - 24	163	163
SPC 40	Powerhouse Commission	06/17/2013 05:05	06/17/2013 08:05	0	25 - 25	168	168
SPC 40	Powerhouse Commission	06/18/2013 05:40	06/18/2013 08:40	0	25 - 25	169	169
DSS 65	Gain Select Installation - NIB	06/18/2013 06:30	06/18/2013 14:30	0	25 - 25	169	169
SPC 10	G86 Complex Power Cutover	06/19/2013 13:00	06/20/2013 05:00	1	25 - 25	170	171
DSS 25	Gain Select Installation - NIB	06/19/2013 15:00	06/19/2013 23:00	0	25 - 25	170	170
SPC 40	Powerhouse Commission	06/20/2013 18:45	06/20/2013 21:45	0	25 - 25	171	171
DSS 63	HBA Prep AZ Runner Measurement	06/24/2013 22:00	06/25/2013 06:00	0	26 - 26	175	176
DSS 63	HBA Prep AZ Runner Measurement	06/25/2013 22:00	06/26/2013 06:00	0	26 - 26	176	177
DSS 34	Gain Select Installation	06/25/2013 22:00	06/26/2013 08:05	0	26 - 26	176	177
DSS 25	Gain Select Installation	06/26/2013 11:15	06/26/2013 23:00	0	26 - 26	177	177



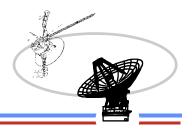
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		2013					
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 63	HBA Prep AZ Runner Measurement	06/27/2013 20:05	06/28/2013 04:05	0	26 - 26	178	179
DSS 65	Gain Select Installation - NIB	06/27/2013 07:30	06/27/2013 16:35	0	26 - 26	178	178
SPC 60	NMC Automated Link Build	06/27/2013 22:25	06/28/2013 06:00	0	26 - 26	178	179
DSS 65	Gain Select Installation - NIB	07/02/2013 07:20	07/02/2013 15:20	0	27 - 27	183	183
DSS 34	Gain Select Installation	07/02/2013 22:00	07/03/2013 07:40	0	27 - 27	183	184
DSS 45	Gain Select Installation	07/03/2013 22:00	07/04/2013 06:00	0	27 - 27	184	185
DSS 34	Gain Select Installation	07/09/2013 22:00	07/10/2013 06:00	0	28 - 28	190	191
DSS 45	Gain Select Installation	07/10/2013 21:05	07/11/2013 09:55	1	28 - 28	191	192
DSS 63	Depot Level Maintenance - NIB	07/15/2013 06:00	08/09/2013 17:00	25	29 - 32	196	221
DSS 63	Grouting	07/15/2013 06:00	08/09/2013 17:00	25	29 - 32	196	221
SPC 10	G86 Complex Power Cutover	07/16/2013 07:45	07/16/2013 23:45	1	29 - 29	197	197
DSS 45	Gain Select Installation	07/17/2013 21:45	07/18/2013 06:40	0	29 - 29	198	199
DSS 55	Antenna Efficiency Measurement	07/22/2013 06:00	07/22/2013 16:00	0	30 - 30	203	203
DSS 55	Antenna Efficiency Measurement	07/23/2013 06:00	07/23/2013 16:00	0	30 - 30	204	204
DSS 55	Antenna Efficiency Measurement	07/24/2013 06:00	07/24/2013 16:00	0	30 - 30	205	205
DSS 55	Antenna Efficiency Measurement	07/25/2013 06:00	07/25/2013 16:00	0	30 - 30	206	206
DSS 55	Antenna Efficiency Measurement	07/26/2013 06:00	07/26/2013 16:00	0	30 - 30	207	207
SPC 40	NMC Automated Link Build	07/28/2013 14:45	07/28/2013 19:45	0	30 - 30	209	209
SPC 10	NMC Automated Link Build	08/05/2013 02:05	08/05/2013 09:45	0	32 - 32	217	217
SPC 10	G86 Complex Power Cutover	08/15/2013 10:50	08/16/2013 02:50	1	33 - 33	227	228
DSS 15	250W S-Band - NIB	09/09/2013 15:00	12/07/2013 00:00	88	37 - 49	252	341
DSS 15	Depot Level Maintenance - NIB	09/09/2013 15:00	12/07/2013 00:00	88	37 - 49	252	341



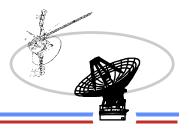
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	2013										
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY				
DSS 15	Gain Select Installation - NIB	09/09/2013 15:00	12/07/2013 00:00	88	37 - 49	252	341				
DSS 15	Maser Replacement	09/09/2013 15:00	12/07/2013 00:00	88	37 - 49	252	341				
SPC 10	G86 Complex Power Cutover	09/10/2013 13:00	09/11/2013 05:00	1	37 - 37	253	254				
SPC 10	NMC Automated Link Build	09/19/2013 00:00	09/19/2013 08:00	0	38 - 38	262	262				
DSS 54	Gain Select Installation - NIB	09/27/2013 06:00	09/27/2013 14:00	0	39 - 39	270	270				
DSS 54	Gain Select Installation - NIB	10/04/2013 06:00	10/04/2013 14:00	0	40 - 40	277	277				
DSS 54	Gain Select Installation - NIB	10/11/2013 06:00	10/11/2013 14:00	0	41 - 41	284	284				
SPC 10	NMC Automated Link Build - Acceptance Test	10/17/2013 00:00	10/17/2013 08:00	0	42 - 42	290	290				
SPC 60	Complex Power Cutover	12/09/2013 05:00	12/09/2013 17:00	0	50 - 50	343	343				



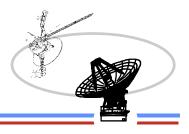
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		2014					
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
GCF 20	DCD 4.1 - Proposed	01/08/2014 23:10	01/09/2014 05:10	0	02 - 02	8	9
SPC 10	DCD 4.1 - Proposed	01/08/2014 23:10	01/09/2014 05:10	0	02 - 02	8	9
SPC 60	Complex Power Cutover - Proposed	01/14/2014 05:00	01/14/2014 17:00	0	03 - 03	14	14
GCF 20	DCD 4.1 - Proposed	01/15/2014 21:00	01/16/2014 05:00	0	03 - 03	15	16
SPC 10	NMC ALB SOAK - Proposed	01/15/2014 23:10	01/16/2014 05:10	0	03 - 03	15	16
DSS 45	Depot Level Maintenance	01/27/2014 21:00	02/21/2014 05:00	24	05 - 08	27	52
SPC 60	Complex Power Cutover - Proposed	02/14/2014 05:00	02/14/2014 17:00	0	07 - 07	45	45
SPC 60	NMC Automated Link Build - SOAK Proposed	02/16/2014 06:00	02/16/2014 14:00	0	07 - 07	47	47
SPC 10	NMC Automated Link Build - Proposed	02/18/2014 00:00	02/18/2014 08:00	0	08 - 08	49	49
SPC 40	DCD 4.1 - Proposed	02/20/2014 23:00	02/21/2014 05:00	0	08 - 08	51	52
DSS 63	Grouting - Proposed	03/03/2014 06:00	03/28/2014 17:00	25	10 - 13	62	87
SPC 40	NMC Automated Link Build - SOAK Proposed	03/05/2014 21:00	03/06/2014 05:00	0	10 - 10	64	65
SPC 60	DCD 4.1 - Proposed	03/06/2014 07:00	03/06/2014 13:00	0	10 - 10	65	65
SPC 60	Complex Power Cutover - Proposed	03/10/2014 05:00	03/10/2014 17:00	0	11 - 11	69	69
DSS 26	80 kW Facility Prep - NIB	03/10/2014 15:00	06/27/2014 00:00	108	11 - 26	69	178
DSS 26	AZ Track Replacement - Proposed	03/10/2014 15:00	06/27/2014 00:00	108	11 - 26	69	178
DSS 26	Depot Level Maintenance - NIB	03/10/2014 15:00	06/27/2014 00:00	108	11 - 26	69	178
DSS 26	RF Reconfiguration Prep - NIB	03/10/2014 15:00	06/27/2014 00:00	108	11 - 26	69	178
DSS 55	Antenna Inspection - Proposed	03/17/2014 07:00	03/17/2014 23:00	1	12 - 12	76	76
DSS 65	Antenna Inspection - Proposed	03/18/2014 07:00	03/18/2014 23:00	1	12 - 12	77	77
DSS 63	Antenna Inspection - Proposed	03/19/2014 07:00	03/19/2014 23:00	1	12 - 12	78	78
DSS 54	Antenna Inspection - Proposed	03/20/2014 07:00	03/20/2014 23:00	1	12 - 12	79	79
DSS 55	Antenna Inspection - Proposed	03/24/2014 07:00	03/24/2014 15:00	0	13 - 13	83	83



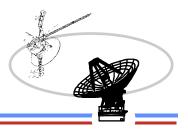
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	2014										
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY				
DSS 65	Antenna Inspection - Proposed	03/25/2014 07:00	03/25/2014 15:00	0	13 - 13	84	84				
DSS 54	Antenna Inspection - Proposed	03/26/2014 07:00	03/26/2014 15:00	0	13 - 13	85	85				
SPC 60	Complex Power Cutover - Proposed	04/08/2014 05:00	04/08/2014 17:00	0	15 - 15	98	98				
DSS 65	Depot Level Maintenance	04/21/2014 07:00	05/16/2014 16:00	25	17 - 20	111	136				
SPC 60	Complex Power Cutover - Proposed	05/09/2014 05:00	05/09/2014 17:00	0	19 - 19	129	129				
DSS 63	Grouting - Proposed	11/03/2014 06:00	11/28/2014 17:00	25	45 - 48	307	332				
DSS 63	S-Band Maser Replacement - NIB	11/03/2014 06:00	11/28/2014 17:00	25	45 - 48	307	332				
DSS 14	70M Tune-up/Calibration - Proposed	12/01/2014 15:00	12/15/2014 00:00	13	49 - 51	335	349				



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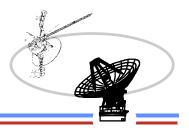
2015									
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY		
DSS 34	Depot Level Maintenance	01/26/2015 21:00	02/20/2015 05:00	24	05 - 08	26	51		
DSS 55	AZ Track Replacement - Proposed	03/09/2015 06:00	05/22/2015 17:00	74	11 - 21	68	142		
DSS 43	70m Tune-up/Callibration - Proposed	03/09/2015 21:00	03/21/2015 06:00	11	11 - 12	68	80		
DSS 63	70m Tune-up/Calibration - NIB	05/04/2015 06:00	05/17/2015 17:00	13	19 - 20	124	137		
DSS 63	Grouting - Proposed	05/04/2015 06:00	05/17/2015 17:00	13	19 - 20	124	137		
DSS 14	Antenna Inspection - Proposed	05/25/2015 15:00	05/26/2015 06:00	1	22 - 22	145	146		
DSS 26	Antenna Inspection - Proposed	05/26/2015 15:00	05/27/2015 06:00	1	22 - 22	146	147		
DSS 25	Antenna Inspection - Proposed	05/27/2015 15:00	05/28/2015 06:00	1	22 - 22	147	148		
DSS 15	Antenna Inspection - Proposed	05/28/2015 15:00	05/29/2015 06:00	1	22 - 22	148	149		
DSS 27	Antenna Inspection - Proposed	05/29/2015 15:00	05/30/2015 06:00	1	22 - 22	149	150		
DSS 14	Antenna Inspection - Proposed	06/01/2015 15:00	06/02/2015 00:00	0	23 - 23	152	153		
DSS 26	Antenna Inspection - Proposed	06/02/2015 15:00	06/03/2015 00:00	0	23 - 23	153	154		
DSS 24	Antenna Inspection - Proposed	06/03/2015 15:00	06/04/2015 06:00	1	23 - 23	154	155		
DSS 15	Antenna Inspection - Proposed	06/04/2015 15:00	06/05/2015 00:00	0	23 - 23	155	156		
DSS 27	Antenna Inspection - Proposed	06/05/2015 15:00	06/05/2015 23:00	0	23 - 23	156	156		
DSS 63	Grouting - Proposed	08/03/2015 05:00	08/16/2015 17:00	14	32 - 33	215	228		
DSS 65	Maser Replacement - Proposed	08/17/2015 06:00	10/23/2015 17:00	67	34 - 43	229	296		
DSS 45	Maser Replacement - Proposed	10/26/2015 21:00	01/29/2016 06:00	94	44 - 04	299	29		



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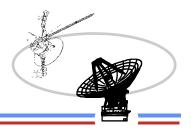
	2016										
Site	Details	Start End		Duration (Days)	Weeks	Start DOY	End DOY				
DSS 43	Antenna Inspection - Proposed	01/04/2016 22:00	01/05/2016 14:00	1	01 - 01	4	5				
DSS 34	Antenna Inspection - Proposed	01/05/2016 22:00	01/06/2016 14:00	1	01 - 01	5	6				
DSS 45	Antenna Inspection - Proposed	01/06/2016 22:00	01/07/2016 14:00	1	01 - 01	6	7				
DSS 35	Antenna Inspection - Proposed	01/07/2016 22:00	01/08/2016 14:00	1	01 - 01	7	8				
DSS 43	Antenna Inspection - Proposed	01/11/2016 22:00	01/12/2016 06:00	0	02 - 02	11	12				
DSS 34	Antenna Inspection - Proposed	01/12/2016 22:00	01/13/2016 06:00	0	02 - 02	12	13				
DSS 63	Grouting - Proposed	05/02/2016 06:00	05/29/2016 17:00	27	18 - 21	123	150				
DSS 15	Transmitter Replacement - Proposed	10/03/2016 15:00	01/13/2017 00:00	101	40 - 02	277	13				
DSS 63	Grouting - Proposed	10/31/2016 06:00	11/25/2016 17:00	25	44 - 47	305	330				
SPC 40	SWUPS Installation - Proposed	11/02/2016 21:00	11/03/2016 09:00	0	44 - 44	307	308				
SPC 40	SWUPS Installation - Proposed	11/16/2016 21:00	11/17/2016 09:00	0	46 - 46	321	322				
SPC 40	SWUPS Installation - Proposed	11/30/2016 21:00	12/01/2016 09:00	0	48 - 48	335	336				





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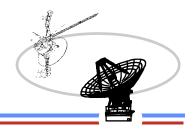
	2017										
Site	Details	Start End		Duration (Days)	Weeks	Start DOY	End DOY				
DSS 45	Transmitter Replacement - Proposed	01/16/2017 21:00	04/08/2017 06:00	81	03 - 14	16	98				
DSS 63	HBA Upgrade and Life Extension - Proposed	01/30/2017 06:00	09/08/2017 17:00	221	05 - 36	30	251				
DSS 55	Antenna Inspection - Proposed	08/28/2017 07:00	08/28/2017 23:00	1	35 - 35	240	240				
DSS 65	Antenna Inspection - Proposed	08/29/2017 07:00	08/29/2017 23:00	1	35 - 35	241	241				
DSS 63	Antenna Inspection - Proposed	08/30/2017 07:00	08/30/2017 23:00	1	35 - 35	242	242				
DSS 54	Antenna Inspection - Proposed	08/31/2017 07:00	08/31/2017 23:00	1	35 - 35	243	243				
DSS 55	Antenna Inspection - Proposed	09/04/2017 07:00	09/04/2017 15:00	0	36 - 36	247	247				
DSS 63	Antenna Inspection - Proposed	09/05/2017 07:00	09/05/2017 15:00	0	36 - 36	248	248				
DSS 54	Antenna Inspection - Proposed	09/07/2017 07:00	09/07/2017 15:00	0	36 - 36	250	250				
DSS 65	Transmitter Replacement - Proposed	09/11/2017 06:00	12/01/2017 17:00	81	37 - 48	254	335				



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	2018									
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY			
DSS 54	Pedistal Rehab	01/08/2018 06:00	09/28/2018 17:00	263	02 - 39	8	271			
DSS 25	AZ Track Replacement - Proposed	01/29/2018 15:00	04/07/2018 00:00	67	05 - 14	29	97			
DSS 25	XX/Ka Installation - NIB	01/29/2018 15:00	04/07/2018 00:00	67	05 - 14	29	97			
DSS 14	Antenna Inspection - Proposed	04/08/2018 15:00	04/09/2018 06:00	1	14 - 15	98	99			
DSS 26	Antenna Inspection - Proposed	04/09/2018 15:00	04/10/2018 06:00	1	15 - 15	99	100			
DSS 25	Antenna Inspection - Proposed	04/10/2018 15:00	04/11/2018 06:00	1	15 - 15	100	101			
DSS 15	Antenna Inspection - Proposed	04/11/2018 15:00	04/12/2018 06:00	1	15 - 15	101	102			
DSS 27	Antenna Inspection - Proposed	04/12/2018 15:00	04/13/2018 06:00	1	15 - 15	102	103			
DSS 14	Antenna Inspection - Proposed	04/15/2018 15:00	04/16/2018 00:00	0	15 - 16	105	106			
DSS 26	Antenna Inspection - Proposed	04/16/2018 15:00	04/17/2018 00:00	0	16 - 16	106	107			
DSS 24	Antenna Inspection - Proposed	04/17/2018 15:00	04/18/2018 06:00	1	16 - 16	107	108			
DSS 27	Antenna Inspection - Proposed	04/18/2018 15:00	04/19/2018 00:00	0	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 - Proposed	04/30/2018 15:00	07/07/2018 00:00	67	18 - 27	120	188			
DSS 34	Ka2 Tune-up - Proposed	06/04/2018 21:00	06/16/2018 06:00	6	23 - 24	149	156			
DSS 54	Ka2 Tune-up - NIB	09/03/2018 06:00	09/17/2018 17:00	14	36 - 38	246	260			



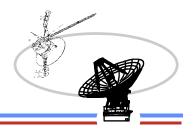


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Future assets new/upgrades

- DSS-35 Installation and Operational 2013 2014
 - □ Modkit Installation October 1, 2013 March 14, 2014 weeks 40 11
 - □ Acceptance Testing February 25, 2014 May 12, 2013, weeks 09 20
 - □ System Integration Testing March 14, 2014 June 30, 2014 weeks 11 27
 - Operations Systems Performance Testing June 30, 2014 August 28, 2014, weeks 27 – 35
 - Department 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-36 Installation and Operational 2016 A placeholder has been set awaiting dates





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Antenna Downtime Status and Forecast

DSN Resource Implementation Planning Matrix by Complex

			S-B	and	X-Band		Ka-Band		Ka	X-Band	80KW
Complex	Station	Subnet	Down	Up	Down	Up	Down	Up	Phase 2	ACQ AID	OURW
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
10	DSS-25	34B2	N/A	N/A	>	~	~	✓	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	✓	10/26/13	>	~	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	10/01/19	10/01/19	10/01/19	N/A	N/A	N/A	N/A
40	DSS-34	34B1	~	~	>	~	~	N/A	~	~	N/A
40	DSS-35*	34B2	N/A	N/A	09/29/14	09/29/14	09/29/14	N/A	N/A	N/A	N/A
40	DSS-36*	34B2	N/A	N/A	09/26/16	09/26/16	09/26/16	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-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	09/28/20	09/28/20	09/28/20	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 A	pplicable o	or Capabili	ty Not Plan	ned	xx/xx/xx = Capability Date Recently Changed			As of: 4/4/2013			
✓ ✓ ✓ = Ca	apability Re	cently Exi	sts		✓ = Capability Exists			* = To Be Commissioned			