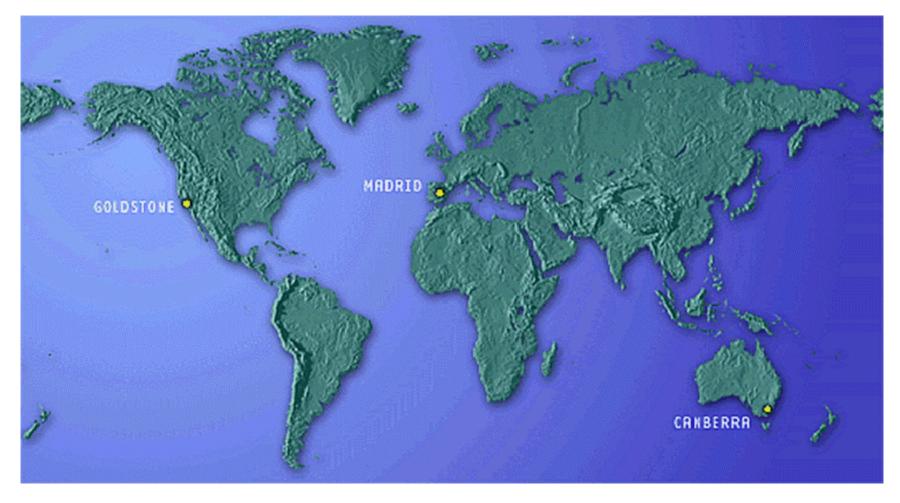
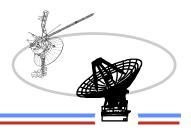


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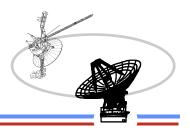






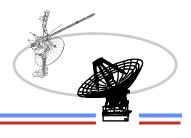
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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
Complex downtime for Power House Commission	CDSCC	Jan 2013	Jun 2013	03, 04, 05, 09, 13, 21, 22, 25	John Phillips, Rob Mehrkish	Prime shift hours are requested for 3 hours each 5 blocks in May, spilt between weeks 21 and 22 All Power House tasks have been completed All current Power House tasks completed, However, looking to schedule more in 2014 weeks $1 - 10$
Complex downtime for G86 Power Cutover	GDSCC	Feb 2013	Sep 2013	08, 14, 17, 22, 25, 29, 33	Hill Reus, Richard Fleig, Tony Medeiros	Request 16 hours each block Week 33 remains to be completed. NMC ALB work will be NIB to G86 downtimes based on power availability.
Complex downtime for NMC Automated Link Build (ALB)	GDSCC CDSCC	Mar 2013 July 2013	Oct 2013 July 2013	10, 12, 17, 24, 32, 38, 43,49 30	Jim Buckley, Dave Taylor, Shirley Cizmar	Request 6 – 8 hours each block – days/times flexible. Moved week 42 NMC ALB task to week 43 due to LADEE contention and viewperiod. An additional request for NMC ALB A/T was added in week 49. Weeks 32, 38, 43, and 49 remain to be completed.
Complex downtime for NMC Automated Link Build and (ALB) SOAK	GDSCC MDSCC CDSCC	Jan 2014 Feb 2014 Mar 2014	Jan 2014 Feb 2014 Mar 2014	03 & 08 07 10	Jim Buckley, Shirley Cizmar, Dave Taylor	Request 6 – 8 hours per block at each complex Additional downtime Requested early 2014 Request received to move to Jan instead of Mar Request was received to move from week 05 to mid Feb Request to move NMC ALB SOAK to Mar instead of Jan



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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
AZ Track Replacement	DSS-26 DSS-55 DSS-25	Mar 10, 2014 Mar 9, 2015 Jan 29, 2018	Aug 31, 2014 Jun 26, 2015 Apr 9, 2018	11 – 35 11 – 21 05 – 14	Pam Rothman, Asim Sehic Hal Ahlstrom Asim Sehic	80kW Facility prep, RF Reconfig Prep and DLM are NIB. DSS-26 downtime has been extended through week 35 XX/Ka Installation is scheduled NIB during DSS-25 downtime is proposed
Gain Select Installation	DSS-34 DSS-45 DSS-54	Jun 24 2013 Jul 2013 Sep 2013	Jul 14 2013 Jul 2013 Oct 2013	26 – 28 27 – 29 39 - 41	Chris Link, Juan Ocampo, Harout Matossian	For each week this maintenance will be NIB to DSS-34 Gain Select – Completed July 24/31. Demo pass scheduled for 8/1. For each week this maintenance will be NIB to DSS-45 Gain Select – Completed. Demo pass scheduled for 8/13 For each week this downtime will be NIB to DSS- 54 Maintenance. Demo pass scheduled for 10/7
HBA Prep Metrology – AZ Runner Measurement	DSS-63	Jun 27 2013	June 27 2013	26	Tim Sink	Week 26 DOY's 175, 176 and 178 for AZ Runner Measurements – Current task was completed. Requesting 4 additional nights (3 consecutive) 12 hours each Jan/Feb timeframe

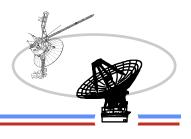


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# Antenna Downtime Status and Forecast

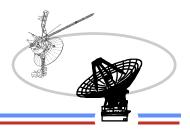
Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
Grouting	DSS-63	2013 2014 2014 2015 2015 2016 2016	2013 2014 2014 2015 2015 2016 2016	29 - 32 $10 - 15$ $45 - 48$ $19 & 20$ $32 & 33$ $14 - 17$ $40 - 43$	Pam Rothman, Dave Taylor, David Munoz Mochon, Bernardo Lopez, Asim Sehic	An additional 5 days added. Need to be done prior to JUNO TCM. DLM Maintenance - NIB An additional 2 weeks added to first grouting in 2014. 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	Jul 22, 2013	Jul 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. – Completed
Heat Exchanger Update Install	DSS-26 DSS-25	Jul 29, 2013 Aug 12, 2013	Aug 2, 2013 Aug 16, 2013	31 33	Harout Matossian	Request 5 days each antenna, projects can track in downlink only mode – Completed at DSS-26.
HEF Maser Replacement	DSS-15	Sep 9, 2013	Dec 7, 2013	37 – 51	Anna Fan, Chris Link	Replacing Maser LNA with HEMT LNA, 250W S-Band & Depot Level Maintenance NIB Added Gain Select Installation NIB (BEB) Extended an additional 2 weeks through week 51. Demo tracks under discussion DSS-45 & DSS-65 have been cancelled

Downtime August 6, 2013 4



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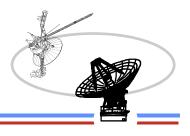
Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
Complex downtime for SPC-60 Power Cutover	MDSCC	Dec 2013	May 2014	50 2013 03, 07, 11, 15, 19 2014	Anna Fan, Rob Mehrkish, Javier Lopez- Perea	Request 12 hours blocks of prime shift hours, but hours are negotiable. Maintenance blocks for DSS-54, 55, 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.
DCD 4.1 software	GDSCC and DSOC CDSCC MDSCC	Jan 8, 2014 Jan 2014 Mar 6, 2014	Jan 9, 2014 Feb 2014 Mar 6, 2014	02 03, 08 10	Anna Fan, Sheila Garrett	These are proposed dates at this time
Depot Level Maintenance	DSS-35 DSS-43 DSS-45 DSS-65 DSS-34	Jan, 2014 Feb 2014 Mar 2014 May 2014 Jan 2015	Mar, 2014 Feb 2014 April 2014 May 2014 Feb 2015	07 - 09 16 - 18 20 - 22 05 - 08	John Phillips for CDSCC David Munoz Mochon for MDSCC	DSS-35 Modkit installation during Jan – Mar time frame DSS-43 changed to HBA Shimming in activity description DSS-45 and DSS-65 scheduled after DSS-63 grouting



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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
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 DSS-43	Dec 1, 2014 Mar 9, 2015	Dec 15, 2014 Mar 21, 2015	49 & 50 11 & 12	David Allen John Phillips	These are proposed dates at this time and are In preparation for NHPC Pluto Encounter
Antenna Inspections	GDSCC	Aug, 2015 Apr, 2018	Aug, 2015 Apr, 2018	13 & 14 15 & 16	Anna Fan, Neil Bucknam, Daniel Olson	2015 Antenna Inspections moved to March - April timeframe,
Antenna Inspections	CDSCC	Jan 2016	Jan 2016	1&2	Anna Fan, Dave Taylor, Neil Bucknam, Daniel Olson	2016 – During DSS-45 Maser Replacement

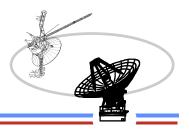




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Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
X/X/Ka Ka U/L Installation	DSS-25	Jan, 2016	April, 2016	01 – 13	Wendy Hodgin	New downtime requested at July downtime meeting
APCA	DSS-14 DSS-43	Nov, 2016 Sept, 2017	Jan, 2017 Nov, 2017	44 – 04 37 - 48	Anna Fan, Barzia Tehrani	New downtime requested at July downtime meeting
SWUPS Installation	CDSCC	March, 2016 March 2016 April, 2016	March, 2016 April 2016 April, 2016	12 13 14	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, Bernardo Lopez	This is proposed at this time APCA and Maser Replacement are 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



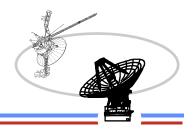


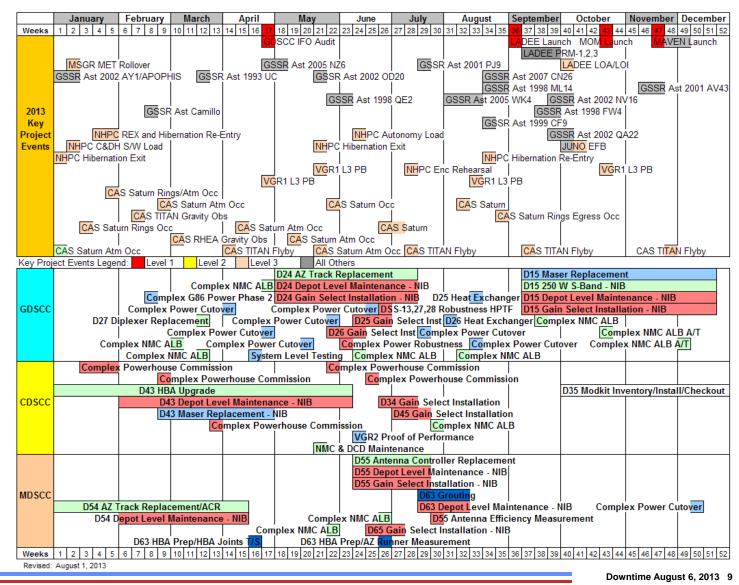
Downtime	Antenna	Start Date	End Date	Weeks	POC	Notes
XX/Ka Installation	DSS-24	Apr 30, 2018	Jul 9, 2018	18 - 27	Wendy Hodgin	This is proposed at this time
Ka2 Tune-up	DSS-24	May 1, 2018	May 13, 2018	18 & 19	Wendy Hodgin	Both Ka2 Tune-ups must be scheduled prior to JWST launch in October 2018, If JWST launch slips, tune-ups may be slipped also.
Ka2 Tune-up	DSS-34	May 28, 2018	Jun 4, 2018	22 & 23		Budget/resource driven



- 2013 -

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

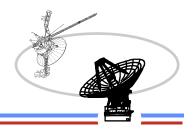


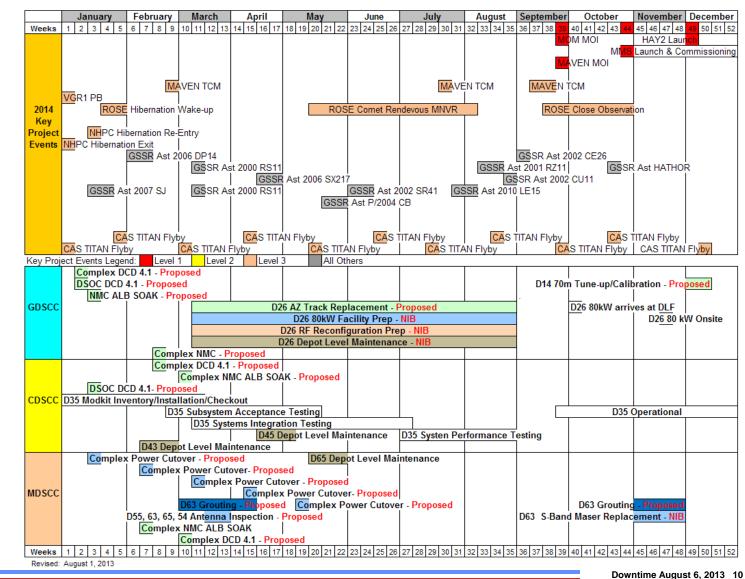




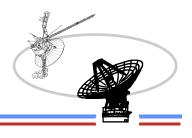
- 2014 -

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

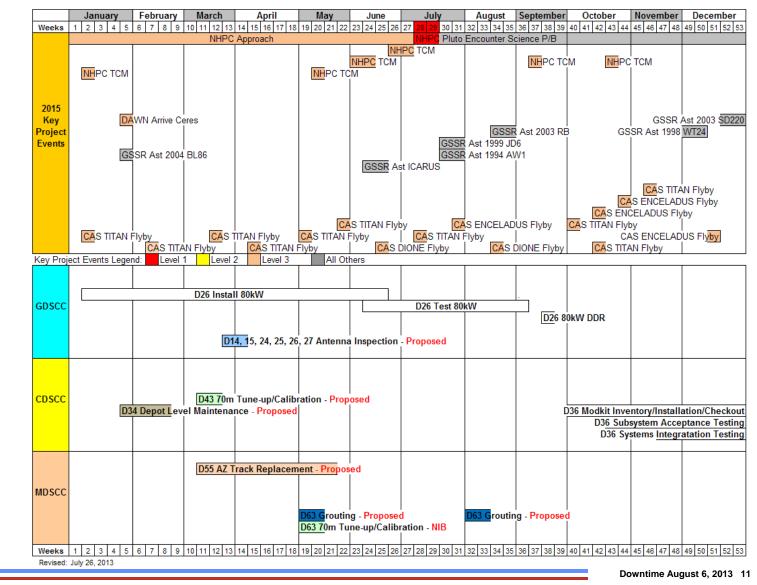






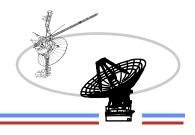


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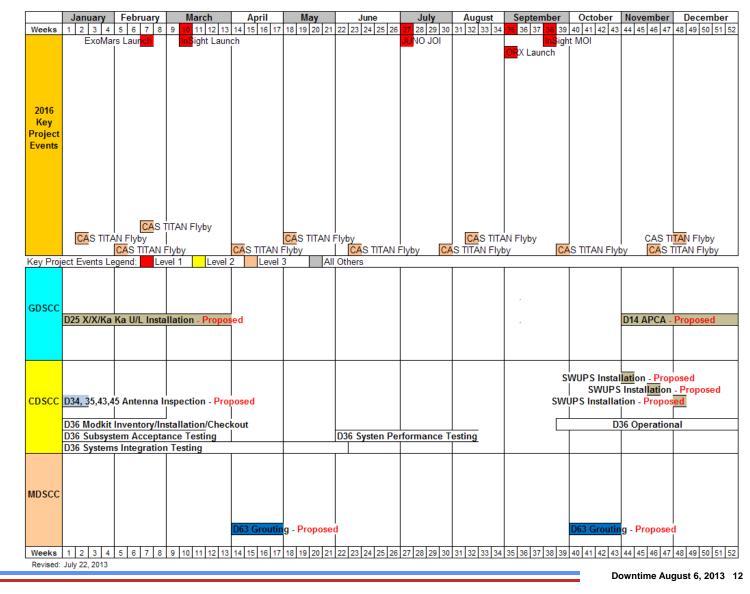


- 2015 -





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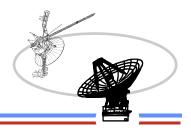


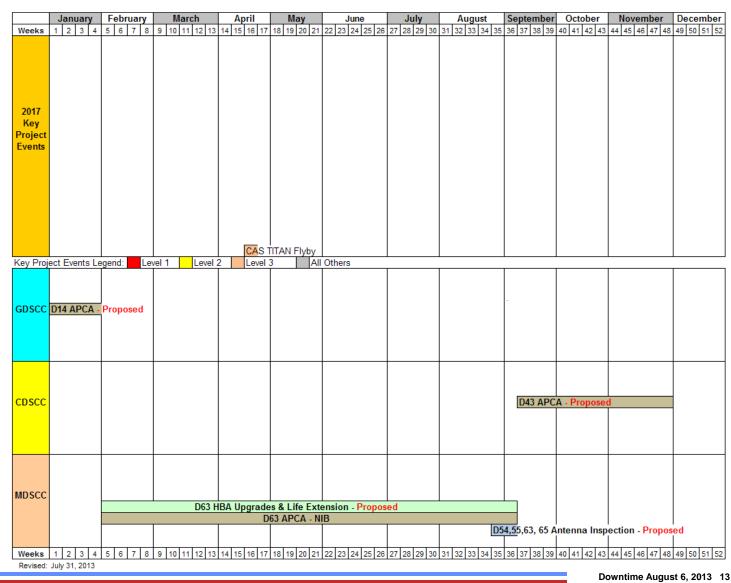
## - 2016 -



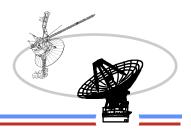
- 2017 -

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

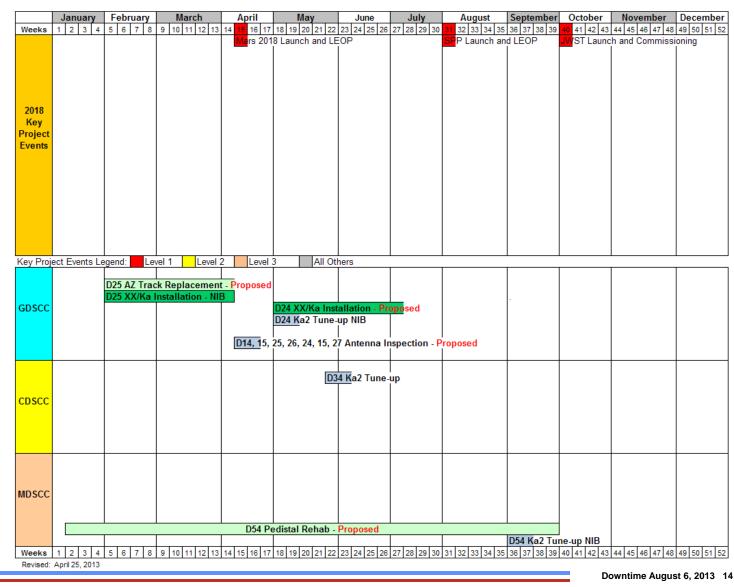






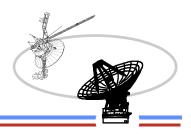


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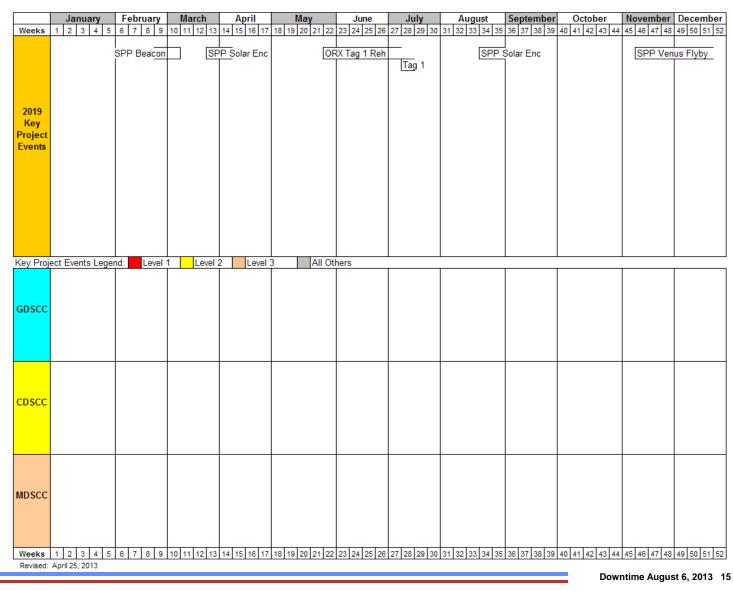


## - 2018 -





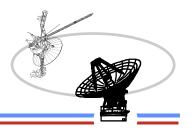
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## - 2019 -

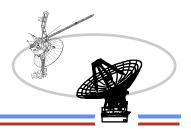
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## Interplanetary Network Directorate (IND) Deep Space Network (DSN) Resource Allocation Planning Service



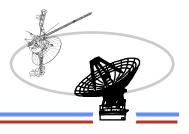
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		2013					
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 63	Depot Level Maintenance - NIB	07/15/2013 03:55	08/09/2013 17:00	26	29 - 32	196	221
DSS 63	Grouting	07/15/2013 03:55	08/09/2013 17:00	26	29 - 32	196	221
DSS 55	Antenna 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
DSS 26	Heat Exchanger	07/29/2013 14:00	08/03/2013 00:00	4	31 - 31	210	215
SPC 10	NMC Automated Link Build	08/05/2013 02:05	08/05/2013 09:45	0	32 - 32	217	217
DSS 25	Heat Exchanger	08/12/2013 14:00	08/17/2013 01:30	4	33 - 33	224	229
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	12/21/2013 00:00	102	37 - 51	252	355
DSS 15	Depot Level Maintenance - NIB	09/09/2013 15:00	12/21/2013 00:00	102	37 - 51	252	355
DSS 15	Gain Select Installation - NIB	09/09/2013 15:00	12/21/2013 00:00	102	37 - 51	252	355
DSS 15	Maser Replacement	09/09/2013 15:00	12/21/2013 00:00	102	37 - 51	252	355
SPC 10	NMC Automated Link Build	09/17/2013 02:05	09/17/2013 09:50	0	38 - 38	260	260
DSS 54	Gain Select Installation - NIB	09/27/2013 06:00	09/27/2013 14:05	0	39 - 39	270	270
DSS 54	Gain Select Installation - NIB	10/04/2013 06:00	10/04/2013 14:30	0	40 - 40	277	277
DSS 54	Gain Select Installation - NIB	10/11/2013 06:15	10/11/2013 14:15	0	41 - 41	284	284
SPC 10	NMC Automated Link Build - Acceptance testing	10/25/2013 00:00	10/25/2013 08:00	0	43 - 43	298	298
SPC 10	NMC Automated Link Build - Acceptance testing	12/03/2013 00:00	12/03/2013 08:00	0	49 - 49	337	337
SPC 60	Complex Power Cutover	12/09/2013 05:00	12/09/2013 17:00	0	50 - 50	343	343



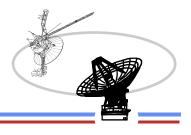
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		2014					
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
GCF 20	DCD 4.1 - Proposed	01/08/2014 21:00	01/09/2014 05:00	0	02 - 02	8	9
SPC 10	DCD 4.1 - Proposed	01/08/2014 23:10	01/09/2014 05:10	0	02 - 02	8	9
SPC 60	Complex Power Cutover - Proposed	01/14/2014 05:00	01/14/2014 17:00	0	03 - 03	14	14
GCF 20	DSOC DCD 4.1 - Proposed	01/15/2014 23:10	01/16/2014 05:10	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
GCF 20	NMC ALB DSOC SOAK 4.1 - Proposed	01/16/2014 23:10	01/17/2014 05:10	0	03 - 03	16	17
DSS 43	Depot Level Maintenance - Proposed	02/10/2014 21:00	02/28/2014 06:00	17	07 - 09	41	59
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	08 - 08	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	04/11/2014 17:00	39	10 - 15	62	101
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	09/01/2014 00:00	174	11 - 35	69	244
DSS 26	AZ Track Replacement - Proposed	03/10/2014 15:00	09/01/2014 00:00	174	11 - 35	69	244
DSS 26	Depot Level Maintenance - NIB	03/10/2014 15:00	09/01/2014 00:00	174	11 - 35	69	244
DSS 26	RF Reconfiguration Prep - NIB	03/10/2014 15:00	09/01/2014 00:00	174	11 - 35	69	244
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



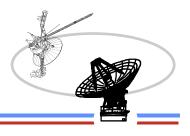
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	2014										
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY				
DSS 55	Antenna Inspection - Proposed	03/24/2014 07:00	03/24/2014 15:00	0	13 - 13	83	83				
DSS 65	Antenna Inspection - Proposed	03/25/2014 07:00	03/25/2014 15:00	0	13 - 13	84	84				
DSS 54	Antenna Inspection - Proposed	03/26/2014 07:00	03/26/2014 15:00	0	13 - 13	85	85				
DSS 45	Depot Level Maintenance - Proposed	03/31/2014 21:00	04/18/2014 05:00	24	14 - 16	90	108				
SPC 60	Complex Power Cutover - Proposed	04/08/2014 05:00	04/08/2014 17:00	0	15 - 15	98	98				
SPC 60	Complex Power Cutover - Proposed	05/09/2014 05:00	05/09/2014 17:00	0	19 - 19	129	129				
DSS 65	Depot Level Maintenance	05/12/2014 07:00	05/30/2014 16:00	18	20 - 22	132	150				
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				



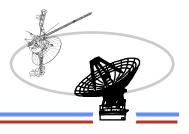
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		2015					
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 34	Depot Level Maintenance	01/26/2015 21:00	02/20/2015 05:00	24	05 - 08	26	51
DSS 55	AZ Track Replacement - Proposed	03/09/2015 06:00	05/22/2015 17:00	74	11 - 21	68	142
DSS 43	70m Tune-up/Callibration - Proposed	03/09/2015 21:00	03/21/2015 06:00	11	11 - 12	68	80
DSS 14	Antenna Inspection - Proposed	03/23/2015 15:00	03/24/2015 03:00	0	13 - 13	82	83
DSS 26	Antenna Inspection - Proposed	03/24/2015 15:00	03/25/2015 03:00	0	13 - 13	83	84
DSS 24	Antenna Inspection - Proposed	03/25/2015 15:00	03/26/2015 03:00	0	13 - 13	84	85
DSS 25	Antenna Inspection - Proposed	03/25/2015 15:00	03/26/2015 03:00	0	13 - 13	84	85
DSS 15	Antenna Inspection - Proposed	03/26/2015 15:00	03/27/2015 03:00	0	13 - 13	85	86
DSS 14	Antenna Inspection - Proposed	03/27/2015 15:00	03/28/2015 03:00	0	13 - 13	86	87
DSS 27	Antenna Inspection - Proposed	03/27/2015 15:00	03/28/2015 03:00	0	13 - 13	86	87
DSS 26	Antenna Inspection - Proposed	03/31/2015 15:00	04/01/2015 03:00	0	14 - 14	90	91
DSS 25	Antenna Inspection - Proposed	04/01/2015 15:00	04/02/2015 03:00	0	14 - 14	91	92
DSS 24	Antenna Inspection - Proposed	04/01/2015 15:00	04/02/2015 03:00	0	14 - 14	91	92
DSS 15	Antenna Inspection - Proposed	04/02/2015 15:00	04/03/2015 03:00	0	14 - 14	92	93
DSS 27	Antenna Inspection - Proposed	04/03/2015 15:00	04/04/2015 03:00	0	14 - 14	93	94
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 63	Grouting - Proposed	08/03/2015 05:00	08/16/2015 17:00	14	32 - 33	215	228



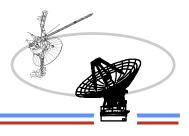
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	2016										
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY				
DSS 25	X/XKa Ka U/L - Proposed	01/04/2016 15:00	04/01/2016 00:00	87	01 - 13	4	92				
DSS 43	Antenna Inspection - Proposed	01/04/2016 22:00	01/05/2016 14:00	1	01 - 01	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	04/04/2016 06:00	04/29/2016 17:00	25	14 - 17	95	120				
DSS 63	Grouting - Proposed	10/03/2016 06:00	10/28/2016 17:00	25	40 - 43	277	302				
DSS 14	APCA - Proposed	10/31/2016 15:00	01/27/2017 00:00	87	44 - 04	305	27				
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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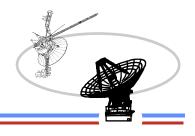
		2017					
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 63	APCA - NIB	01/30/2017 06:00	09/08/2017 17:00	221	05 - 36	30	251
DSS 63	HBA Upgrade and Life Extension - Proposed	01/30/2017 06:00	09/08/2017 17:00	221	05 - 36	30	251
DSS 55	Antenna Inspection - Proposed	08/28/2017 07:00	08/28/2017 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 43	APCA - Proposed	09/11/2017 21:00	12/01/2017 06:00	80	37 - 48	254	335



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		2018					
Site	Details	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 54	Pedestal 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 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	05/28/2018 21:00	06/04/2018 06:00	6	22 - 23	148	155
DSS 54	Ka2 Tune-up - NIB	09/03/2018 06:00	09/17/2018 17:00	14	36 - 38	246	260



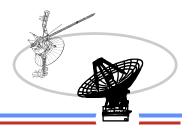


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# Future assets new/upgrades

- 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

Subnet         34HSB #         34B1         34B1         34B2         34B2         34B2         34HEF         70M         34B2         34B2         34HEF         34HE         34HE         34HE         34HE         34HE         34B2	Down	Up	Down N/A · · · · · · · · · · · · · · · · · · ·	Up N/A • • • • • • • • • • • • • • • • • • •	Down N/A V/A V/A N/A 10/01/19	Up N/A N/A N/A N/A N/A N/A	Phase 2 N/A V/A N/A N/A N/A N/A V/A	ACQ AID N/A N/A N/A N/A N/A N/A	80KW N/A N/A 10/01/15 N/A N/A N/A
<ul> <li>34B1</li> <li>34B2</li> <li>34B2</li> <li>34B2</li> <li>34HEF</li> <li>70M</li> <li>34B2</li> <li>34B1</li> <li>34B2</li> </ul>	N/A     N/A     N/A     N/A     N/A	<ul> <li>N/A</li> <li>N/A</li> <li>12/07/13</li> <li>N/A</li> <li>N/A</li> </ul>	、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、	、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、	N/A ~ N/A N/A 10/01/19 ~	N/A V/A N/A N/A N/A	✓ N/A N/A N/A N/A N/A	✓ N/A N/A N/A N/A	N/A N/A 10/01/15 N/A N/A
<ul> <li>34B2</li> <li>34B2</li> <li>34B2</li> <li>34HEF</li> <li>70M</li> <li>34B2</li> <li>34B1</li> <li>34B2</li> </ul>	N/A N/A • • N/A	N/A N/A 12/07/13 N/A			✓ √ N/A N/A 10/01/19 ✓	N/A N/A N/A N/A	N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A	N/A 10/01/15 N/A N/A N/A
<ul> <li>34B2</li> <li>34HEF</li> <li>70M</li> <li>34B2</li> <li>34B1</li> <li>34B2</li> </ul>	N/A	N/A 12/07/13 • N/A •	• • 10/01/19 •	• • 10/01/19 •	✓ N/A N/A 10/01/19	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	10/01/15 N/A N/A N/A
<ul> <li>34HEF</li> <li>70M</li> <li>34B2</li> <li>34B1</li> <li>34B2</li> </ul>	• • N/A •	12/07/13	• • 10/01/19 •	• • 10/01/19 •	N/A N/A 10/01/19	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A
* 34B2 4 34B1 * 34B2	• N/A •	N/A	• 10/01/19 •	10/01/19	N/A 10/01/19	N/A N/A	N/A N/A	N/A N/A	N/A N/A
* 34B2 4 34B1 * 34B2	N/A	N/A	10/01/19	10/01/19 ✓	10/01/19 ✓	N/A	N/A	N/A	N/A
34B1 * 34B2	~	~	~	~	~				
* 34B2	-					N/A	~	~	N/A
	N/A	N/A	00/20/14						
			09/29/14	09/29/14	09/29/14	N/A	N/A	N/A	N/A
* 34B2	N/A	N/A	09/26/16	09/26/16	09/26/16	N/A	N/A	N/A	N/A
34HEF	~	~	~	~	N/A	N/A	N/A	N/A	N/A
3 70M	~	~	~	~	N/A	N/A	N/A	N/A	N/A
34B1	~	~	~	~	~	N/A	~	~	N/A
5 34B2	N/A	N/A	~	~	~	N/A	N/A	N/A	N/A
34B2	N/A	N/A	09/28/20	09/28/20	09/28/20	N/A	N/A	N/A	N/A
34HEF	~	~	~	~	N/A	N/A	N/A	N/A	N/A
7014	~	~	~	~	N/A	N/A	N/A	N/A	N/A
)	5 34B2 5 34B2	5     34B2     N/A       5     34B2     N/A       5     34HEF     ✓	5         34B2         N/A         N/A           5         34B2         N/A         N/A           5         34B2         N/A         N/A           5         34HEF         •         •	5         34B2         N/A         N/A            5         34B2         N/A         N/A         09/28/20           5         34HEF	5         34B2         N/A         N/A         •         •           5         34B2         N/A         N/A         09/28/20         09/28/20           5         34HEF         •         •         •         •	5         34B2         N/A         N/A         •         •         •           5         34B2         N/A         N/A         09/28/20         09/28/20         09/28/20           5         34HEF         •         •         •         •         N/A	5         34B2         N/A         N/A         Image: second s	5         34B2         N/A         N/A         ·         ·         N/A         N/A           5         34B2         N/A         N/A         09/28/20         09/28/20         09/28/20         N/A         N/A           5         34HEF         ·         ·         ·         N/A         N/A         N/A	5         34B2         N/A         N/A         ·         ·         N/A         N/A         N/A           5         34B2         N/A         N/A         09/28/20         09/28/20         09/28/20         N/A         N/A         N/A           5         34HEF         ·         ·         ·         N/A         N/A         N/A

= Capability Recently Exists

Exists

\* = To Be Commissioned

# = To Be De-Commissioned - 12/8/2013