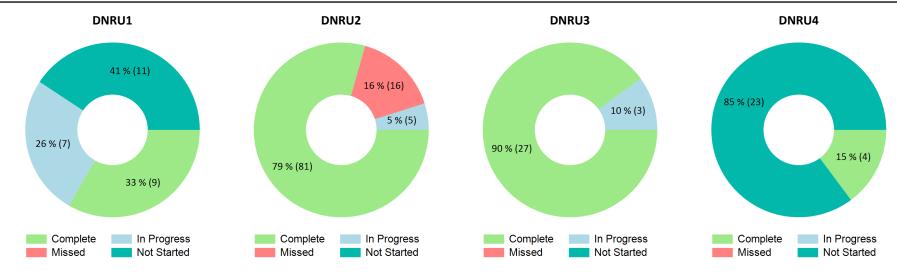
**GENERATION** DNRU3, DNRU1, DNRU4, DNRU2 Program Milestones

Report ID: 0201A <u>Tech Tips</u>

Report Owner: R. Hall **Process Owner:** V. Santhanam Period Ending: 29-Aug-19



| MILESTONE PERFORMANCE (# MILESTONES)  |          |  |  |  |  |  |
|---------------------------------------|----------|--|--|--|--|--|
| Milestone with Baseline               | 186      |  |  |  |  |  |
| Milestones Completed on Time          | 72       |  |  |  |  |  |
| Milestones Completed Late             | 49       |  |  |  |  |  |
| Milestones On Track                   | 44       |  |  |  |  |  |
| Mllestones at Risk                    | 5        |  |  |  |  |  |
| Milestones Missed                     | 16       |  |  |  |  |  |
| Milestones with no Baseline           | 9        |  |  |  |  |  |
| # of Milestones Completed   Remaining | 9   0    |  |  |  |  |  |
| Total # of Milestones                 | 195      |  |  |  |  |  |
| # of Milestones Completed   Remaining | 130   65 |  |  |  |  |  |

| Legend: | <b>44</b> | Completed Early/On Time | ✓ | Completed Late | - | On Track | Х | At Risk | XX | Missed |
|---------|-----------|-------------------------|---|----------------|---|----------|---|---------|----|--------|
|         |           | Completed               |   | Not Completed  |   |          |   |         |    |        |

| Activity ID | Milestone Title                                | Milestone Type | Forecast Start | Baseline Finish | Forecast Finish | Variance to<br>Plan | Status                 |
|-------------|--|----------------|----------------|-----------------|-----------------|---------------------|------------------------|
| RL010       | Rel.3: Preliminary Planning Release            | Program        |                | 19-Nov-2009     | 19-Nov-2009     | 0                   | <b>44</b>              |
| RL020       | Rel.4A: Detailed Planning Release A            | Program        |                | 17-Nov-2011     | 17-Nov-2011     | 0                   | 44                     |
| RL025       | Rel.4B: Detailed Planning Release B            | Program        |                | 15-Nov-2012     | 15-Nov-2012     | 0                   | $\checkmark\checkmark$ |
| RL070       | Rel.4C: Detailed Planning Release C            | Program        |                | 14-Nov-2013     | 14-Nov-2013     | 0                   | 44                     |
| OP2010      | U2 Outage Level 1 Revision A Issued            | Program        |                | 15-Apr-2014     | 15-Apr-2014     | 0                   | 44                     |
| OP2020      | U2 OMS Work Order Scope Definition Complete    | Program        |                | 15-Oct-2014     | 15-Oct-2014     | 0                   | <b>44</b>              |
| OP2120      | U2 Refurb Outage Planning Organization Defined | Program        |                | 15-Oct-2014     | 15-Oct-2014     | 0                   | 44                     |



**GENERATION** DNRU3, DNRU1, DNRU4, DNRU2 Program Milestones

Report ID: 0201A

Period Ending:

Report Owner: R. Hall V. Santhanam Process Owner:

29-Aug-19

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Variance to Activity ID Milestone Title Milestone Type **Forecast Start Baseline Finish Forecast Finish** Status Plan 13-Nov-2014 13-Nov-2014 **RL080** Rel.4D: Detailed Planning Release D Program 0  $\checkmark\checkmark$ 44 OP2140 U2 Scope Ranked and Approved in OMS Program 15-Jan-2015 15-Jan-2015 0 44 OP2015 U2 D1621 Preliminary Work Order Assessment Complete Program 01-Feb-2015 01-Feb-2015 0 44 OP2075 U2 OMS Work Order Scope Freeze Program 01-Jun-2015 01-Jun-2015 0 -53 ✓ OP2290 U2 Cyclical Scope/Cost/Duration Reconciliation Review Program 15-Apr-2015 08-Jun-2015 √ U2 Long Lead and At Risk Materials Identified 15-Apr-2015 -153 **OP2040** Program 15-Sep-2015 ✓ OP2130 U2 Refurb Pre-Outage Metrics Prepared (Priority 1 Metrics) 15-Oct-2014 15-Oct-2015 -365 Program OP2370 U2 Outage Pre-reg Work Identified **Program** 15-Jul-2015 30-Oct-2015 -107 **RL030** Rel.5/6/RQE: Board of Directors Approval of Release Quality Estimates 15-Oct-2015 13-Nov-2015 -29 **Program V**V OP2050 U2 Outage Level 1 Revision B Issued Program 15-Nov-2015 15-Nov-2015 0 44 **OP2200** U2 Refurb Outage High Level Permitry Level 1 Plan Completed Program 15-Dec-2015 15-Dec-2015 0 OP2180 U2 Refurb Outage Pre-Requisites Scheduled 15-Oct-2015 12-Jan-2016 -88 Program 44 **RG125** 0 U2 Submit Request for Outage Approvals Program 15-Jan-2016 15-Jan-2016 1 **OP2214** U2 Refurb Pre-Outage Metrics Prepared (Priority 2 Metrics) Program 29-Jan-2016 OP2215 44 U2 All ALARA Plans Submitted Program 01-Mar-2016 ✓ **OP2360** All U2 Level 3 Execution Schedules Quality Acceptance Complete **Program** 16-Nov-2015 14-Mar-2016 -118 **√**√ OP2211 U2 Field Constructability Review Complete Program 15-Mar-2016 OP2216 U2 Commissioning Specs Submitted 12-Feb-2016 15-Apr-2016 -62  $\checkmark$ Program 44 RP200U2 U2 Refurb Training Outage Readiness Program 01-Oct-2016 15-Apr-2016 169 OP2217 ~~ U2 System Detailed Restart Specification 31-May-2016 Program **OP2080** U2 Outage Revision C Schedule Issued Program 15-Apr-2016 17-Jun-2016 -62 44 **OP2220** U2 Refurb Outage Execution Organization Identified Program 15-Jul-2016 15-Jul-2016 11 15-Jul-2016 0 OP2250 U2 Refurb Outage Execution Metrics Prepared Program 15-Jul-2016 1 15-Jul-2016 15-Jul-2016 0 **RG130** U2 Outage CNSC Approvals in Place Program OP2213 RQE & U2 RTE Estimate Development - U2 RTE Estimates Release Submitted 15-Aug-2016 31-Jul-2016 15 11 Program OP2221 11 15-Aug-2016 All PO's for Refurbishment placed by August 15th Program 11 **OP2270** U2 Refurb Outage Briefing Packages Ready **Program** 15-Aug-2016 15-Aug-2016 0 **OP2110** U2 Outage Level 1 Revision 0 Issued (Control Version) Program 15-Jul-2016 25-Aug-2016 -40  $\checkmark$ ✓ OP2210 U2 Risk Mitigation Plans Prepared 15-Feb-2016 26-Aug-2016 -192 Program -45 OP2240 U2 Radiation Protection Support, Waste Minimization & Outage Environment Safety Plan Program 15-Jul-2016 30-Aug-2016 OP2219 44 U2 Baseline Schedules Approved 16-Sep-2016 Program 11 **OP2218** All Segments Readiness Challenge Session Complete Program 30-Sep-2016 44 U2010 U2 Circuit Breaker Open Program 15-Oct-2016 15-Oct-2016 0 11 U2020 U2 Fire LISS and Apply GSS Complete Program 16-Oct-2016 16-Oct-2016 0 U2001 16-Oct-2016 1 U2 Shutdown Complete 16-Oct-2016 0 Program U2307 23-Oct-2016 23-Oct-2016 0 11

U2308

U2040

U2043

U2 Turbine Mini Permit #1 Applied

U2 Crane Maintenance Complete

U2 Defueling Complete

U2 Steam Generator Wet Lay-up Achieved

Program

Program

Program

**Program** 

 $\checkmark\checkmark$ 

44

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25

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31-Oct-2016

11-Jan-2017

14-Jan-2017

31-Oct-2016

06-Feb-2017

08-Feb-2017



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Period Ending: 29-Aug-19

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|-------------|--|----------------|----------------|-----------------|-----------------|---------------------|------------|
| Activity ID | Milestone Title  | Milestone Type | Forecast Start | Baseline Finish | Forecast Finish | Variance to<br>Plan | Status     |
| U2311       | U2 Commissioning Temp. Breathing Air (Outside Vault) (CANCELLED) | Program        |                | 17-Jan-2017     | 16-Jan-2017     | 1                   | <b>√√</b>  |
| U2291       | U2 PHT Bulk Drain  | Program        |                | 11-Feb-2017     | 16-Jan-2017     | 25                  | <b>√√</b>  |
| U2316       | U2 HTS Vacuum Dry Phase A Start                                  | Program        |                | 11-Feb-2017     | 17-Jan-2017     | 25                  | <b>√√</b>  |
| U2045       | U2 EF Seal Cap Installed   | Program        |                | 17-Feb-2017     | 06-Feb-2017     | 11                  | <b>√√</b>  |
| U2309       | U2 Conventional Side Lay-up Achieved                             | Program        |                | 09-Jan-2017     | 24-Feb-2017     | -46                 | ✓          |
| OP3012      | 5.1.1 U3 Outage Leadership Assigned                              | Program        | 15-Sep-2016    | 15-Mar-2017     | 15-Mar-2017     | 0                   | <b>√√</b>  |
| U2060       | U2 Bulk Head Installed   | Program        |                | 24-Mar-2017     | 28-Mar-2017     | -3                  | ✓          |
| U2050       | U2 Vault Dewpoint Reduction Complete                             | Program        |                | 30-Mar-2017     | 29-Mar-2017     | 1                   | <b>√√</b>  |
| U2053       | U2 Containment Test Complete                                     | Program        |                | 30-Mar-2017     | 09-Apr-2017     | -10                 | ✓          |
| RP270U2     | U2 Refurb Training Execution Readiness                           | Program        |                | 15-Apr-2017     | 15-Apr-2017     | 0                   | <b>44</b>  |
| U2055       | U2 VVRS Configuration Complete                                   | Program        |                | 07-Apr-2017     | 20-Apr-2017     | -12                 | ✓          |
| U2057       | U2 AL Doors Logic Modifications Complete                         | Program        |                | 07-Apr-2017     | 20-Apr-2017     | -12                 | ✓          |
| U2320       | U2 BH Shielding Installed  | Program        |                | 25-Apr-2017     | 02-May-2017     | -6                  | ✓          |
| RL041       | 5.4.1 U3 Planning Estimate Complete                              | Program        | 15-Jan-2017    | 12-May-2017     | 12-May-2017     | 0                   | <b>44</b>  |
| U2059       | U2 Bulk Interference Removal Complete                            | Program        |                | 19-May-2017     | 26-May-2017     | -6                  | ✓          |
| OP3013      | 5.1.2 U3 Outage Planning Organization Identified                 | Program        | 15-Mar-2017    | 14-Jun-2017     | 14-Jun-2017     | 0                   | 44         |
| U2293       | U2 HTS Vacuum Dry Complete                                       | Program        |                | 24-Apr-2017     | 24-Jun-2017     | -61                 | ✓          |
| OP3180      | 5.2.1 U3 Pre-Requisites Scope Identified                         | Program        | 15-Nov-2016    | 26-Jun-2017     | 26-Jun-2017     | 0                   | <b>√√</b>  |
| OP2280      | U2 Refurb Outage Pre-Requisites Complete                         | Program        |                | 01-Oct-2016     | 30-Jun-2017     | -271                | ✓          |
| OP3401      | 5.1.3 U3 Vendor Work Assignments - Known Scope                   | Program        | 15-Nov-2016    | 15-Jul-2017     | 15-Jul-2017     | 0                   | <b>√√</b>  |
| U2062       | U2 Bridge Removed/RTP Installed                                  | Program        |                | 30-Jun-2017     | 23-Jul-2017     | -22                 | ✓          |
| U2294       | U2 Moderator Drain and Flush                                     | Program        |                | 18-Jun-2017     | 30-Jul-2017     | -41                 | ✓          |
| U2064       | U2 Feeder Cabinet Removal Complete                               | Program        |                | 16-Jul-2017     | 01-Aug-2017     | -15                 | ✓          |
| U2070       | U2 RFR Components On Site  | Program        |                | 15-Sep-2017     | 21-Aug-2017     | 25                  | <b>√√</b>  |
| OP30006     | 5.2.9 U3 Prerequisites Scope Approved in ROOMS                   | Program        | 07-Jan-2017    | 15-Sep-2017     | 15-Sep-2017     | 0                   | <b>√√</b>  |
| U2100       | U2 Feeder Removal Complete                                       | Program        |                | 04-Sep-2017     | 26-Sep-2017     | -22                 | ✓          |
| U2066       | U2 Dummy Fuel Bundle Removal Complete                            | Program        |                | 14-Sep-2017     | 12-Oct-2017     | -27                 | ✓          |
| U2068       | U2 PT Severing Complete  | Program        |                | 27-Sep-2017     | 24-Oct-2017     | -26                 | ✓          |
| U2295       | U2 Class 3 Electrical Maintenance Complete                       | Program        |                | 09-Oct-2017     | 02-Nov-2017     | -24                 | ✓          |
| OP30001     | 5.5.6 U3 Segment 0 Long Lead Materials PO's Issued               | Program        | 26-Jun-2017    | 24-Nov-2017     | 24-Nov-2017     | 0                   | <b>√√</b>  |
| U2072       | U2 Server Bellows Complete                                       | Program        |                | 25-Oct-2017     | 26-Nov-2017     | -32                 | ✓          |
| OP3053      | 5.6.2 U3 New Projects Permanent Modification Planning Complete   | Program        | 15-Mar-2017    | 15-Dec-2017     | 15-Dec-2017     | 0                   | <b>√√</b>  |
| OP3020      | 5.2.2 U3 Major Scope Identified and Approved in ROOMS            | Program        | 15-Mar-2017    | 15-Dec-2017     | 15-Dec-2017     | 0                   | <b>√√</b>  |
| U2074       | U2 End Fitting Removal Complete                                  | Program        |                | 05-Dec-2017     | 21-Jan-2018     | -46                 | ✓          |
| RL042       | 5.4.2 U3 Preliminary Estimate Complete                           | Program        | 15-Sep-2017    | 23-Feb-2018     | 23-Feb-2018     | 0                   | <b>√</b> √ |
| U2076       | U2 PT Removal Complete   | Program        |                | 08-Jan-2018     | 03-Mar-2018     | -53                 | ✓          |
| U2078       | U2 CTI Release Complete  | Program        |                | 22-Jan-2018     | 14-Mar-2018     | -50                 | ✓          |
| U2297       | U2 PULSW Outage  | Program        |                | 04-Jan-2018     | 28-Mar-2018     | -83                 | ✓          |
| U2080       | U2 CTI Removal Complete  | Program        |                | 09-Feb-2018     | 29-Mar-2018     | -47                 | ✓          |



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|-------------|--|----------------|----------------|-----------------|-----------------|---------------------|------------|
| Activity ID | Milestone Title  | Milestone Type | Forecast Start | Baseline Finish | Forecast Finish | Variance to<br>Plan | Status     |
| OP3010      | 5.3.1 U3 Revision A Schedule Issued  | Program        | 16-Jun-2017    | 10-Apr-2018     | 10-Apr-2018     | 0                   | <b>4</b> 4 |
| OP3040      | 5.5.1 U3 Long Lead Materials Identified                                      | Program        | 15-Mar-2017    | 13-Apr-2018     | 13-Apr-2018     | 0                   | <b>√√</b>  |
| OP3280      | 5.3.6 U3 Segment 0 (Pre-Requisites Execution) Schedule Issued                | Program        | 15-Apr-2017    | 13-Apr-2018     | 13-Apr-2018     | 0                   | <b>√√</b>  |
| U2110       | U2 Fuel Channel (CT) Removal Complete  | Program        |                | 15-Mar-2018     | 05-May-2018     | -50                 | ✓          |
| U2112       | U2 Trial CT Installation Complete (only for U2)                              | Program        |                | 22-Mar-2018     | 09-May-2018     | -47                 | ✓          |
| U2310       | U2 Inspection Series Complete  | Program        |                | 17-Mar-2018     | 09-May-2018     | -52                 | √          |
| U2125       | U2 Bellow Inspections  | Program        |                | 21-Aug-2018     | 05-Jul-2018     | 47                  | <b>√√</b>  |
| RG157       | 5.8.1 U3 Regulatory Approvals Plan Issued                                    | Program        | 15-Sep-2017    | 15-Jul-2018     | 13-Jul-2018     | 1                   | <b>√√</b>  |
| OP2070      | U2 Work Packages Assessment Complete (CANCELLED - CCF6170)                   | Program        |                | 15-Apr-2016     | 18-Jul-2018     | -823                | ✓          |
| OP2090      | Operational Turnover Plans Approved (CANCELLED - CCF6170)                    | Program        |                |                 | 18-Jul-2018     |                     | <b>√√</b>  |
| RP290U2     | U2 Refurb Inspection & Installation Training Readiness (CANCELLED - CCF6170) | Program        |                | 15-May-2018     | 18-Jul-2018     | -63                 | ✓          |
| U2299       | U2 HFD Replacement Complete  | Program        |                | 13-May-2018     | 02-Aug-2018     | -80                 | ✓          |
| U2065       | U2 Critical Inspections Completion   | Program        |                |                 | 30-Aug-2018     |                     | <b>√√</b>  |
| OP3232      | 5.1.5 U3 Maintenance Contract & Bulk Labour Requirements Identified          | Program        | 15-Feb-2018    | 15-Oct-2018     | 24-Sep-2018     | 20                  | <b>√√</b>  |
| OP3120      | 5.2.3 U3 Minor Scope Identified and Approved in ROOMS                        | Program        | 15-Apr-2018    | 15-Oct-2018     | 10-Oct-2018     | 5                   | <b>√√</b>  |
| OP4180      | 5.2.1 U4 Pre-Requisites Scope Identified                                     | Program        | 15-Jun-2018    | 30-Jan-2020     | 10-Oct-2018     | 477                 | <b>√</b> √ |
| OP1180      | 5.2.1 U1 Pre-Requisites Scope Identified                                     | Program        | 15-Jun-2018    | 15-Oct-2018     | 10-Oct-2018     | 4                   | <b>√√</b>  |
| U2120       | U2 CT Install Series Complete  | Program        |                | 09-Aug-2018     | 29-Oct-2018     | -80                 | ✓          |
| U2292       | U2 Replace Adjuster Rods Complete  | Program        |                | 19-May-2017     | 21-Nov-2018     | -550                | ✓          |
| OP3015      | 5.2.4 U3 Initial Work Order Assessment Complete                              | Program        | 15-Mar-2017    | 15-Dec-2018     | 12-Dec-2018     | 2                   | <b>√√</b>  |
| U2296       | U2 Replace Vertical Flux Detector Complete                                   | Program        |                | 29-Oct-2017     | 14-Dec-2018     | -410                | √          |
| RL051       | 5.4.1 U1 Planning Estimate Complete (CANCELLED)                              | Program        | 15-Aug-2018    | 15-Dec-2018     | 15-Dec-2018     | 0                   | <b>√√</b>  |
| OP3041      | 5.5.2 U3 Long Lead Materials PO's Issued                                     | Program        | 26-Jun-2017    | 15-Aug-2018     | 15-Dec-2018     | -121                | ✓          |
| OP1401      | 5.1.3 U1 Vendor Work Assignments - Known Scope                               | Program        | 15-Jun-2018    | 15-Jan-2019     | 15-Jan-2019     | 0                   | <b>√√</b>  |
| OP3050      | 5.3.2 U3 Revision B Schedule Issued  | Program        | 15-Apr-2018    | 15-Feb-2019     | 14-Feb-2019     | 0                   | <b>√√</b>  |
| OP3210      | 5.8.3 U3 Risk Mitigation Plans Prepared                                      | Program        | 15-Oct-2018    | 15-Mar-2019     | 11-Mar-2019     | 3                   | <b>√√</b>  |
| RL045       | 5.4.3 U3 Execution Phase Final Estimate Complete                             | Program        | 15-Aug-2018    | 15-Apr-2019     | 12-Mar-2019     | 33                  | <b>√√</b>  |
| OP3281      | 5.2.5 U3 Unit Transition Plan Approved                                       | Program        | 15-Sep-2017    | 15-Mar-2019     | 15-Mar-2019     | 0                   | <b>√√</b>  |
| OP10006     | 5.2.9 U1 Prerequisites (Seg 0) Scope Approved in ROOMS                       | Program        | 15-Oct-2018    | 15-Apr-2019     | 10-Apr-2019     | 5                   | <b>√</b> √ |
| OP40006     | 5.2.9 U4 Prerequisites (Seg 0) Scope Approved in ROOMS                       | Program        | 15-Oct-2018    | 30-Jul-2020     | 10-Apr-2019     | 477                 | <b>√</b> √ |
| U2140       | U2 PT (Fuel Channel) Install Series Complete                                 | Program        |                | 28-Dec-2018     | 12-Apr-2019     | -104                | ✓          |
| U2312       | U2 Moderator Fill Start  | Program        |                | 16-Aug-2018     | 13-Apr-2019     | -239                | ✓          |
| OP10001     | 5.5.6 U1 - Segment 0 - Long Lead Materials PO's Issued                       | Program        | 15-Oct-2018    | 15-Apr-2019     | 15-Apr-2019     | 0                   | <b>√</b> √ |
| OP3051      | 5.5.3 U3 Material Purchase Orders Issued - Known Materials                   | Program        | 15-Aug-2018    | 15-Apr-2019     | 15-Apr-2019     | 0                   | <b>√</b> √ |
| OP3405      | 5.1.4 U3 Vendor Work Assigned - Major Scope                                  | Program        | 15-Feb-2018    | 15-Jun-2018     | 17-Apr-2019     | -305                | ✓          |
| U2300       | U2 Fill Calandria Complete   | Program        |                | 21-Aug-2018     | 03-May-2019     | -254                | ✓          |
| OP1020      | 5.2.2 U1 Major Scope Identified and Approved in ROOMS                        | Program        | 15-Oct-2018    | 15-Jun-2019     | 14-Jun-2019     | 0                   | <b>√</b> √ |
| OP1403      | 5.6.1 U1 Prerequisites Projects Permanent Modifications Design Complete      | Program        | 14-Sep-2018    | 15-Jun-2019     | 15-Jun-2019     | 0                   | <b>√</b> √ |
| OP3403      | 5.6.1 U3 Segment 0 Projects Permanent Modifications Design Complete          | Program        | 15-Nov-2016    | 15-Dec-2017     | 25-Jun-2019     | -556                | ✓          |



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|-------------|---|----------------|----------------|-----------------|-----------------|---------------------|--------|
| Activity ID | Milestone Title   | Milestone Type | Forecast Start | Baseline Finish | Forecast Finish | Variance to<br>Plan | Status |
| OP3080      | 5.3.3 U3 Revision C Schedule Issued                                       | Program        | 15-Feb-2019    | 15-Jul-2019     | 12-Jul-2019     | 2                   | 44     |
| OP3402      | 5.1.7 U3 Execution Resource Profile Established                           | Program        | 17-May-2019    | 15-Aug-2019     | 13-Aug-2019     | 2                   | 44     |
| OP1280      | 5.3.6 U1 Segment 0 (Pre-Requisites Execution) Schedule Issued             | Program        | 15-Oct-2018    | 15-Aug-2019     | 15-Aug-2019     | 0                   | 44     |
| RP210U2     | U2 Refurb Training Operational Readiness                                  | Program        |                | 15-Apr-2019     | 23-Aug-2019     | -129                | XX     |
| U2170       | U2 Vault Restoration Complete   | Program        |                | 18-Jul-2019     | 23-Aug-2019     | -35                 | XX     |
| U2305       | U2 Establish GSS  | Program        |                | 10-Oct-2018     | 23-Aug-2019     | -316                | XX     |
| U2298       | U2 Turbine Generator Major Overhaul Finished                              | Program        |                | 22-Mar-2018     | 30-Aug-2019     | -525                | XX     |
| U2130       | U2 Lower Feeder Install Series Complete                                   | Program        |                | 30-Mar-2019     | 30-Sep-2019     | -183                | XX     |
| OP3110      | 5.3.4 U3 Revision 0 Schedule Issued                                       | Program        | 15-Jul-2019    | 30-Sep-2019     | 30-Sep-2019     | 0                   | -      |
| OP3110      | 5.3.4 U3 Revision 0 Schedule Issued                                       | Program        | 23-Aug-2019    | 30-Sep-2019     | 30-Sep-2019     | 0                   | -      |
| U2313       | U2 Fuel Loading Start   | Program        |                | 30-Mar-2019     | 06-Oct-2019     | -189                | XX     |
| OP1040      | 5.5.1 U1 Long Lead Materials Identified                                   | Program        | 15-Oct-2018    | 15-Oct-2019     | 15-Oct-2019     | 0                   | -      |
| OP3060      | 5.8.4 U3 Pre Outage Readiness Assessment Review Complete                  | Program        | 15-Jun-2019    | 15-Oct-2019     | 15-Oct-2019     | 0                   | -      |
| OP1010      | 5.3.1 U1 Revision A Schedule Issued                                       | Program        | 15-Jan-2019    | 15-Oct-2019     | 15-Oct-2019     | 0                   | -      |
| RL052       | 5.4.2 U1 Preliminary Estimate Complete - CANCELLED                        | Program        | 15-Apr-2019    | 15-Oct-2019     | 15-Oct-2019     | 0                   | 44     |
| U2180       | U2 Fuel Loading Complete  | Program        |                | 10-Apr-2019     | 16-Oct-2019     | -188                | XX     |
| U2280       | U2 35 Days Interval Complete/Full Power & Handover to DNGS                | Program        |                | 15-Oct-2019     | 04-Dec-2019     | -50                 | ×      |
| OP1405      | 5.1.4 U1 Vendor Work Assignments - Major Scope                            | Program        | 23-Aug-2019    | 15-Dec-2019     | 15-Dec-2019     | 0                   | -      |
| RG147       | 5.8.1 U1 Regulatory Approvals Plan Issued                                 | Program        | 15-Apr-2019    | 15-Jan-2020     | 15-Jan-2020     | 0                   | -      |
| U2306       | U2 Prior to Heat Transport System Fill                                    | Program        |                | 20-Jun-2019     | 16-Jan-2020     | -209                | XX     |
| U2160       | U2 AL Closed and Pressure Test Complete                                   | Program        |                | 20-Jun-2019     | 28-Jan-2020     | -221                | XX     |
| U2240       | U2 NPC Logic Restoration Complete   | Program        |                | 21-Jun-2019     | 29-Jan-2020     | -221                | XX     |
| OP1041      | 5.5.2 U1 Long Lead Materials PO's Issued                                  | Program        | 15-Jan-2019    | 15-Feb-2020     | 15-Feb-2020     | 0                   | -      |
| U2230       | U2 BH Removal Completed   | Program        |                | 17-Jul-2019     | 20-Feb-2020     | -217                | XX     |
| U2190       | U2 BH Post Req Work Complete (TPDS)                                       | Program        |                | 23-Jul-2019     | 26-Feb-2020     | -217                | XX     |
| U2260       | U2 ATC Complete   | Program        |                | 01-Aug-2019     | 06-Mar-2020     | -217                | XX     |
| U2340       | U2 Low Power Critical Testing / Heat Up Complete                          | Program        |                | 21-Aug-2019     | 26-Mar-2020     | -217                | XX     |
| RL061       | U4 Planning Estimate Complete (CANCELLED)                                 | Program        | 30-Nov-2019    | 30-Mar-2020     | 30-Mar-2020     | 0                   | 44     |
| U2314       | U2 Start of Turbine Testing and First Synchronization                     | Program        |                | 27-Aug-2019     | 01-Apr-2020     | -217                | XX     |
| U2350       | U2 Power Ascension Complete   | Program        |                | 27-Aug-2019     | 01-Apr-2020     | -217                | XX     |
| U2270       | U2 Run-up, Sync and Balancing Complete                                    | Program        |                | 10-Sep-2019     | 15-Apr-2020     | -217                | Х      |
| OP1232      | 5.1.5 U1 Maintenance Contract & Bulk Labour Requirements Identified       | Program        | 23-Aug-2019    | 15-Apr-2020     | 15-Apr-2020     | 0                   | -      |
| OP1120      | 5.2.3 U1 Minor Scope Identified and Approved in ROOMS                     | Program        | 15-Oct-2019    | 15-Apr-2020     | 15-Apr-2020     | 0                   | -      |
| U2274       | U2 High Power Testing and Turbine Testing Complete                        | Program        |                | 19-Sep-2019     | 18-Apr-2020     | -211                | X      |
| U2315       | Prior to Unit 2 Available for Commercial Operation (Restoration Complete) | Program        |                | 19-Sep-2019     | 18-Apr-2020     | -211                | X      |
| U2290       | U2 Project Closeout   | Program        |                | 15-Apr-2020     | 22-Apr-2020     | -7                  | Х      |
| OP4401      | 5.1.3 U4 Vendor Work Assignments - Known Scope                            | Program        | 30-Sep-2019    | 30-Apr-2020     | 30-Apr-2020     | 0                   | -      |
| OP1015      | 5.2.4 U1 Initial Work Order Assessment Complete                           | Program        | 15-Oct-2018    | 15-Jun-2020     | 15-Jun-2020     | 0                   | -      |
| OP40001     | 5.5.6 U4 - Segment 0 - Long Lead Materials PO's Issued                    | Program        | 30-Jan-2020    | 30-Jul-2020     | 30-Jul-2020     | 0                   | -      |
|             |   |                |                |                 |                 |                     |        |



Report ID:

0201A <u>Tech Tips</u>

Report Owner: R. Hall

**Process Owner:** V. Santhanam Period Ending: 29-Aug-19

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|-------------|---|----------------|----------------|-----------------|-----------------|---------------------|--------|
| Activity ID | Milestone Title   | Milestone Type | Forecast Start | Baseline Finish | Forecast Finish | Variance to<br>Plan | Status |
| OP1050      | 5.3.2 U1 Revision B Schedule Issued                                     | Program        | 15-Oct-2019    | 15-Aug-2020     | 15-Aug-2020     | 0                   | -      |
| OP1210      | 5.8.3 U1 Risk Mitigation Plans Prepared                                 | Program        | 15-Apr-2020    | 15-Sep-2020     | 15-Sep-2020     | 0                   | -      |
| OP1281      | 5.2.5 U1 Unit Transition Plan Approved                                  | Program        | 15-Apr-2020    | 15-Sep-2020     | 15-Sep-2020     | 0                   | -      |
| OP4403      | 5.6.1 U4 Prerequisites Projects Permanent Modifications Design Complete | Program        | 30-Sep-2019    | 30-Sep-2020     | 30-Sep-2020     | 0                   | -      |
| OP4020      | 5.2.2 U4 Major Scope Identified and Approved in ROOMS                   | Program        | 30-Jan-2020    | 30-Sep-2020     | 30-Sep-2020     | 0                   | -      |
| OP1051      | 5.5.3 U1 Material Purchase Orders Issued - Known Materials              | Program        | 15-Feb-2020    | 15-Oct-2020     | 15-Oct-2020     | 0                   | -      |
| RL055       | 5.4.3 U1 Execution Phase Final Estimate Complete                        | Program        | 15-Feb-2020    | 15-Oct-2020     | 15-Oct-2020     | 0                   | -      |
| OP4280      | 5.3.6 U4 Segment 0 (Pre-Requisites Execution) Schedule Issued           | Program        | 30-Jan-2020    | 30-Nov-2020     | 30-Nov-2020     | 0                   | -      |
| OP1080      | 5.3.3 U1 Revision C Schedule Issued                                     | Program        | 15-Aug-2020    | 15-Jan-2021     | 15-Jan-2021     | 0                   | -      |
| OP4040      | 5.5.1 U4 Long Lead Materials Identified                                 | Program        | 30-Jan-2020    | 30-Jan-2021     | 30-Jan-2021     | 0                   | -      |
| OP4010      | 5.3.1 U4 Revision A Schedule Issued                                     | Program        | 30-Apr-2020    | 30-Jan-2021     | 30-Jan-2021     | 0                   | -      |
| RL062       | U4 Preliminary Estimate Complete (CANCELLED)                            | Program        | 30-Jul-2020    | 30-Jan-2021     | 30-Jan-2021     | 0                   | 44     |
| OP1402      | 5.1.7 U1 Execution Resource Profile Established                         | Program        | 15-Nov-2020    | 15-Feb-2021     | 15-Feb-2021     | 0                   | -      |
| OP1060      | 5.8.4 U1 Pre Outage Readiness Assessment Review Complete                | Program        | 15-Dec-2020    | 15-Feb-2021     | 15-Feb-2021     | 0                   | -      |
| OP1110      | 5.3.4 U1 Revision 0 Schedule Issued                                     | Program        | 15-Jan-2021    | 15-Mar-2021     | 15-Mar-2021     | 0                   | -      |
| OP1110      | 5.3.4 U1 Revision 0 Schedule Issued                                     | Program        | 04-Feb-2021    | 15-Mar-2021     | 15-Mar-2021     | 0                   | -      |
| OP4405      | 5.1.4 U4 Vendor Work Assignments - Major Scope                          | Program        | 30-Nov-2020    | 30-Mar-2021     | 30-Mar-2021     | 0                   | -      |
| RG167       | 5.8.1 U4 Regulatory Approvals Plan Issued                               | Program        | 30-Jul-2020    | 30-Apr-2021     | 30-Apr-2021     | 0                   | -      |
| OP4041      | 5.5.2 U4 Long Lead Materials PO's Issued                                | Program        | 30-Apr-2020    | 30-May-2021     | 30-May-2021     | 0                   | -      |
| OP4232      | 5.1.5 U4 Maintenance Contract & Bulk Labour Requirements Identified     | Program        | 30-Nov-2020    | 30-Jul-2021     | 30-Jul-2021     | 0                   | -      |
| OP4120      | 5.2.3 U4 Minor Scope Identified and Approved in ROOMS                   | Program        | 30-Jan-2021    | 30-Jul-2021     | 30-Jul-2021     | 0                   | -      |
| OP4015      | 5.2.4 U4 Initial Work Order Assessment Complete                         | Program        | 30-Jan-2020    | 30-Sep-2021     | 30-Sep-2021     | 0                   | -      |
| OP4050      | 5.3.2 U4 Revision B Schedule Issued                                     | Program        | 30-Jan-2021    | 30-Nov-2021     | 30-Nov-2021     | 0                   | -      |
| OP4210      | 5.8.3 U4 Risk Mitigation Plans Prepared                                 | Program        | 30-Jul-2021    | 30-Dec-2021     | 30-Dec-2021     | 0                   | -      |
| OP4281      | 5.2.5 U4 Unit Transition Plan Approved                                  | Program        | 30-Jul-2021    | 30-Dec-2021     | 30-Dec-2021     | 0                   | -      |
| OP4051      | 5.5.3 U4 Material Purchase Orders Issued - Known Materials              | Program        | 30-May-2021    | 30-Jan-2022     | 30-Jan-2022     | 0                   | -      |
| RL063       | 5.4.3 U4 Execution Phase Final Estimate Complete                        | Program        | 30-May-2021    | 30-Jan-2022     | 30-Jan-2022     | 0                   | -      |
| OP4080      | 5.3.3 U4 Revision C Schedule Issued                                     | Program        | 30-Nov-2021    | 30-Apr-2022     | 30-Apr-2022     | 0                   | -      |
| OP4402      | 5.1.7 U4 Execution Resource Profile Established                         | Program        | 28-Feb-2022    | 30-May-2022     | 30-May-2022     | 0                   | -      |
| OP4060      | 5.8.4 U4 Pre Outage Readiness Assessment Review Complete                | Program        | 30-Mar-2022    | 30-May-2022     | 30-May-2022     | 0                   | -      |
| OP4110      | 5.3.4 U4 Revision 0 Schedule Issued                                     | Program        | 30-Apr-2022    | 30-Jun-2022     | 30-Jun-2022     | 0                   | -      |
| OP4110      | 5.3.4 U4 Revision 0 Schedule Issued                                     | Program        | 21-May-2022    | 30-Jun-2022     | 30-Jun-2022     | 0                   | -      |