### July Month End Summary:

The LAW Loss of Power test date and the BNI commissioning sequence slipped 21 days from the previous month due to further COVID-19 impacts. The new completion date for Hot Commissioning is November 27, 2022.

**Data Date:** July 27, 2020

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**DFLAW Integrated Schedule – July 2020**

<table>
<thead>
<tr>
<th>CY19</th>
<th>CY20</th>
<th>CY21</th>
<th>CY22</th>
<th>CY23</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY19</td>
<td>FY20</td>
<td>FY21</td>
<td>FY22</td>
<td>FY23</td>
</tr>
</tbody>
</table>

**Commissioning**

- Conduct Loss of Power Test
- Pre-Cold CX
- Cold CX
- ORR
- HC

**Low-Activity Waste (LAW)**

- LFP & LVP Testing
- DSA System Testing
- LVP
- CSV System Testing
- SDJ H/O

**Effluent Management Facility (EMF)**

- GRE-E-03 T/O
- GRE-E-03 RTO, LTE ORR
- LVE T/O
- FN/JPC
- PSA Test

**Analytical Laboratory (LAB)**

- LAB RTO

**Tank-Side Cesium Removal (TSCR) System**

- CD-2/3 TA

**TSCR Infrastructure**

- Electric Inst.
- CAT
- CX
- CD-4A
- Initial Ops.
- WFD Construction & CAT
- CX
- CD-4

**Waste Feed Delivery (WFD)**

- FFD
- T/O

**ILAW-Transporter**

- Receive/Fabricate/Inspect Pallets
- T/O

**LERF/ETF**

- Acetonitrile Permitting
- Installation
- CAT/OAT

**Waste Incidental to Reprocessing (WIR)**

- 310/311 X-Lines
- NRC/Public Review
- NRC Issue TER
- Revise DOE Review/Apr

**Integrated Disposal Facility**

- Public Comment/Ecology – Class 3 Permit
- Approval
- Hiring
- Training
- MSA

**Water Treatment Facility**

- Notice of Construction Application
- Construction
- SU & CX

**230kV Transmission**

- 60% Design
- Procurement
- Manufacture & Delivery
- Construction

**TOC**

- Conduct Motor/1 Handover
- Dry Run/Data to Utilization, Shakedown 1
- Conduct Hot Commissioning Test

**CHPRC**

- Conduct Loss of Power Test

**Activity with negative float**
- Activity < 2 months of float
- Activity > 2 months of float

**XXX Float to ref. date**
- Program Float (7-day Calendar)
- Change from Previous Month

**Notes:**
- CAT – Construction Acceptance Test
- CD – Critical Decision
- CX – Commissioning
- DSA – Document Safety Analysis
- ETF – Effluent Treatment Facility
- FN/J – Facility Network Infrastructure
- GRE – Gas Release Event
- HC – Hot Commissioning
- HLD – Hanover
- HTE – Heat Trace Electrical System
- ILAW – Immobilized low-activity waste
- LERF – Liquid Effluent Retention Facility
- LVP – LAW Vessel Vent Process
- LTE – Lighting Electrical System
- LVE – Low Voltage Electrical System
- LFP – LAW Feed process
- PSA – Plant Service Air System
- PCJ – Process Control System
- POT – Ready To Operate
- SDJ – Stack Discharge Monitoring
- SU – Start Up
- TA – Temporary Authorization
- T/O – Turnover
- TER – Technical Evaluation Report
- WFD – Waste Feed Delivery
## DFLAW Integrated Schedule Analysis - July 2020

<table>
<thead>
<tr>
<th>Project</th>
<th>Owner/Fed/Contractor</th>
<th>Float</th>
<th>Trend</th>
<th>Current Month Remarks</th>
<th>Project-Specific Critical Path</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAW</td>
<td>W. Abdul/ S. Miller</td>
<td>0</td>
<td>-21</td>
<td>Although the project is still in the Stop Work Order resulting from COVID-19 (Coronavirus) Pandemic, BNI remains focused on working the critical project activities, challenging the completion teams to advance the schedule, mitigating impacts, and getting to Loss of Power as soon as practical. The July month end schedule reflects this approach and the construction and SU activities are now reflecting a less than a day for day impact. However, because the full extent of the impacts hasn’t been completely assessed BNI has temporarily extended the duration of Conduct Loss of Power – Test Prerequisites as COVID impacts continue to be assessed and incorporated into the forecast schedule. Overall the schedule has moved out 3 weeks instead of a full month to November 27, 2022 (for a total of about 5 months as compared to February 2020 month end).</td>
<td>LAW Melt Feed Process &amp; LAW Vessel Vent Process, Document Safety Analysis System Testing, LAV Vessel Vent Process Handover</td>
</tr>
<tr>
<td>EMF</td>
<td>W. Abdul/ J. Andreaatta</td>
<td>21</td>
<td>N/A</td>
<td>Primary EMF critical path has changed from Install Field Instrumentation and FNJ/RTO to Gas Release Event (GRE) walkdowns and Turnover, GRE Ready-to-Operate, Lighting Electrical System (LTE) Operational Readiness Reviews. The secondary EMF critical path has changed from S/C -Heat Trace - Electrical Installation, HTE Punchlist, HTE Startup, and HTE Handover to Low Voltage Electrical Systems (LVE) Turnover, FNJ/PCJ component and system testing, and Plant Service Air (PSA) component and system testing.</td>
<td>Gas Release Event (GRE) walkdowns and Turnover, GRE Ready-to-Operate, Lighting Electrical System (LTE) Operational Readiness Reviews</td>
</tr>
<tr>
<td>LAB</td>
<td>J. Young/ G. Nemeth</td>
<td>451</td>
<td>-35</td>
<td>LAB methods validation activities were delayed due to personnel access issues within the LAB and alarm system status for the fume hoods. LAB methods validation activities are progressing slowly as allowed by fume hood and HVAC system conditions.</td>
<td>LAB Ready to Operate</td>
</tr>
<tr>
<td>TSCR/TFU/WFD</td>
<td>J. Diediker/ K. Smith/ J. Follett</td>
<td>268</td>
<td>19</td>
<td>The 19 day acceleration to the critical path is the result of in-farm pit work on AP-06A being approved by AMTF to be performed ahead of Phase 2, where it was originally planned to be performed. Crew size was able to be reduced to ensure that the work could be performed safely under Phase 1 restrictions.</td>
<td>Fabrication, Construction Acceptance Testing, Commissioning, CD-4, Initial Operations</td>
</tr>
<tr>
<td>ILAW</td>
<td>B. Tamang/ B. Cunningham</td>
<td>512</td>
<td>-16</td>
<td>ILAW pallet production for pallets 24-43 slipped slightly due to manufacturing delays, no action required.</td>
<td>Receive, Inspect, and Fabricate Pallets, Turnover</td>
</tr>
<tr>
<td>LERF/ETF</td>
<td>R. Valle/ J. Filip</td>
<td>155</td>
<td>0</td>
<td>No change from previous month for the Acetonitrile project. The forecast finish for release of the IQRPE fit-for-use letter (310/311-PL Transfer Line project) was delayed due to updated WTP predecessor activities.</td>
<td>Acetonitrile Permitting, Installation, CAT/OAT</td>
</tr>
<tr>
<td>WIR</td>
<td>R. Bang/ M. Wheeler</td>
<td>163</td>
<td>0</td>
<td>No change from previous month. Working with Ecology to re-evaluate permit and construction schedule. Schedule will be updated in next monthly update.</td>
<td>NRC/Public Review, NRC Issue TER, Revise WRI, DOE Review &amp; Approval</td>
</tr>
<tr>
<td>IDF</td>
<td>B. Stetter/ R. Havenor</td>
<td>143</td>
<td>0</td>
<td>The slip to L-850 is due to delays in Long Lead Procurements (Tank, Pumps, Valves, VFDs). Multiple vendors have experienced increased long lead times associated with COVID-19 conditions. The slip to L-897 is due to a delay to the construction schedule as a result of the recent changes to the sitewide air modeling protocol, and direction to submit a combined NOC application for both evaporation at the FW2 basins and emergency generator emissions.</td>
<td>Notice of Construction Application, Manufacturing/Construction, and Startup/Commissioning</td>
</tr>
<tr>
<td>WFT*</td>
<td>C. Smith/ C. Burke</td>
<td>N/A</td>
<td>N/A</td>
<td>The slip to L-850 is due to delays in Long Lead Procurements (Tank, Pumps, Valves, VFDs). Multiple vendors have experienced increased long lead times associated with COVID-19 conditions. The slip to L-897 is due to a delay to the construction schedule as a result of the recent changes to the sitewide air modeling protocol, and direction to submit a combined NOC application for both evaporation at the FW2 basins and emergency generator emissions.</td>
<td>Notice of Construction Application, Manufacturing/Construction, and Startup/Commissioning</td>
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<tr>
<td>230kV Transmission Line*</td>
<td>C. Smith/ C. Burke</td>
<td>N/A</td>
<td>N/A</td>
<td>L-612 schedule impacts, related to additional resolution of BPA comments prior to initiation of 60 percent design process.</td>
<td>80% Design, Contract Award, Construction, Procurement, SIU &amp; CX, Manufacture and Delivery, Construction, Closeout</td>
</tr>
<tr>
<td>Hot CX Completion</td>
<td>T. Fletcher/ V. McCain</td>
<td>-33</td>
<td>-21</td>
<td>The LAW Loss of Power date and the BNI commissioning sequence slipped 21 days from the previous month. The new Hot Commissioning Completion date is November 27, 2022. There are negative 33 days of float to the Reference Measurement date of Oct 26, 2022.</td>
<td>LAW Melt Feed Process &amp; Radioactive Liquid Waste Disposal testing, Document Safety Analysis System Testing, LAV Vessel Vent Process Handover, Pre-Cold CX, Cold CX, ORR, Hot CX</td>
</tr>
</tbody>
</table>