

## Approved CY 2020 LUF Operating Schedule Version 2.2 DRAFT 20-Aug-2020

|    | FY20   |        |        |        |        |        |        |        |        |        |        |        | FY21   |        |        |        |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|    | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 | Jul-20 | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 | Jul-21 | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 |
| 1  | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      |        |
| 2  | 2      | 2      | 2      | 2      | 2      | 2      | 2      | 2      | 2      | 2      | 2      | 2      | 2      | 2      | 2      | 2      | 2      | 2      | 2      | 2      | 2      | 2      | 2      |        |
| 3  | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      |        |
| 4  | 4      | 4      | 4      | 4      | 4      | 4      | 4      | 4      | 4      | 4      | 4      | 4      | 4      | 4      | 4      | 4      | 4      | 4      | 4      | 4      | 4      | 4      | 4      |        |
| 5  | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      |        |
| 6  | 6      | 6      | 6      | 6      | 6      | 6      | 6      | 6      | 6      | 6      | 6      | 6      | 6      | 6      | 6      | 6      | 6      | 6      | 6      | 6      | 6      | 6      | 6      |        |
| 7  | 7      | 7      | 7      | 7      | 7      | 7      | 7      | 7      | 7      | 7      | 7      | 7      | 7      | 7      | 7      | 7      | 7      | 7      | 7      | 7      | 7      | 7      | 7      |        |
| 8  | 8      | 8      | 8      | 8      | 8      | 8      | 8      | 8      | 8      | 8      | 8      | 8      | 8      | 8      | 8      | 8      | 8      | 8      | 8      | 8      | 8      | 8      | 8      |        |
| 9  | 9      | 9      | 9      | 9      | 9      | 9      | 9      | 9      | 9      | 9      | 9      | 9      | 9      | 9      | 9      | 9      | 9      | 9      | 9      | 9      | 9      | 9      | 9      |        |
| 10 | 10     | 10     | 10     | 10     | 10     | 10     | 10     | 10     | 10     | 10     | 10     | 10     | 10     | 10     | 10     | 10     | 10     | 10     | 10     | 10     | 10     | 10     | 10     |        |
| 11 | 11     | 11     | 11     | 11     | 11     | 11     | 11     | 11     | 11     | 11     | 11     | 11     | 11     | 11     | 11     | 11     | 11     | 11     | 11     | 11     | 11     | 11     | 11     |        |
| 12 | 12     | 12     | 12     | 12     | 12     | 12     | 12     | 12     | 12     | 12     | 12     | 12     | 12     | 12     | 12     | 12     | 12     | 12     | 12     | 12     | 12     | 12     | 12     |        |
| 13 | 13     | 13     | 13     | 13     | 13     | 13     | 13     | 13     | 13     | 13     | 13     | 13     | 13     | 13     | 13     | 13     | 13     | 13     | 13     | 13     | 13     | 13     | 13     |        |
| 14 | 14     | 14     | 14     | 14     | 14     | 14     | 14     | 14     | 14     | 14     | 14     | 14     | 14     | 14     | 14     | 14     | 14     | 14     | 14     | 14     | 14     | 14     | 14     |        |
| 15 | 15     | 15     | 15     | 15     | 15     | 15     | 15     | 15     | 15     | 15     | 15     | 15     | 15     | 15     | 15     | 15     | 15     | 15     | 15     | 15     | 15     | 15     | 15     |        |
| 16 | 16     | 16     | 16     | 16     | 16     | 16     | 16     | 16     | 16     | 16     | 16     | 16     | 16     | 16     | 16     | 16     | 16     | 16     | 16     | 16     | 16     | 16     | 16     |        |
| 17 | 17     | 17     | 17     | 17     | 17     | 17     | 17     | 17     | 17     | 17     | 17     | 17     | 17     | 17     | 17     | 17     | 17     | 17     | 17     | 17     | 17     | 17     | 17     |        |
| 18 | 18     | 18     | 18     | 18     | 18     | 18     | 18     | 18     | 18     | 18     | 18     | 18     | 18     | 18     | 18     | 18     | 18     | 18     | 18     | 18     | 18     | 18     | 18     |        |
| 19 | 19     | 19     | 19     | 19     | 19     | 19     | 19     | 19     | 19     | 19     | 19     | 19     | 19     | 19     | 19     | 19     | 19     | 19     | 19     | 19     | 19     | 19     | 19     |        |
| 20 | 20     | 20     | 20     | 20     | 20     | 20     | 20     | 20     | 20     | 20     | 20     | 20     | 20     | 20     | 20     | 20     | 20     | 20     | 20     | 20     | 20     | 20     | 20     |        |
| 21 | 21     | 21     | 21     | 21     | 21     | 21     | 21     | 21     | 21     | 21     | 21     | 21     | 21     | 21     | 21     | 21     | 21     | 21     | 21     | 21     | 21     | 21     | 21     |        |
| 22 | 22     | 22     | 22     | 22     | 22     | 22     | 22     | 22     | 22     | 22     | 22     | 22     | 22     | 22     | 22     | 22     | 22     | 22     | 22     | 22     | 22     | 22     | 22     |        |
| 23 | 23     | 23     | 23     | 23     | 23     | 23     | 23     | 23     | 23     | 23     | 23     | 23     | 23     | 23     | 23     | 23     | 23     | 23     | 23     | 23     | 23     | 23     | 23     |        |
| 24 | 24     | 24     | 24     | 24     | 24     | 24     | 24     | 24     | 24     | 24     | 24     | 24     | 24     | 24     | 24     | 24     | 24     | 24     | 24     | 24     | 24     | 24     | 24     |        |
| 25 | 25     | 25     | 25     | 25     | 25     | 25     | 25     | 25     | 25     | 25     | 25     | 25     | 25     | 25     | 25     | 25     | 25     | 25     | 25     | 25     | 25     | 25     | 25     |        |
| 26 | 26     | 26     | 26     | 26     | 26     | 26     | 26     | 26     | 26     | 26     | 26     | 26     | 26     | 26     | 26     | 26     | 26     | 26     | 26     | 26     | 26     | 26     | 26     |        |
| 27 | 27     | 27     | 27     | 27     | 27     | 27     | 27     | 27     | 27     | 27     | 27     | 27     | 27     | 27     | 27     | 27     | 27     | 27     | 27     | 27     | 27     | 27     | 27     |        |
| 28 | 28     | 28     | 28     | 28     | 28     | 28     | 28     | 28     | 28     | 28     | 28     | 28     | 28     | 28     | 28     | 28     | 28     | 28     | 28     | 28     | 28     | 28     | 28     |        |
| 29 | 29     | 29     | 29     | 29     | 29     | 29     | 29     | 29     | 29     | 29     | 29     | 29     | 29     | 29     | 29     | 29     | 29     | 29     | 29     | 29     | 29     | 29     | 29     |        |
| 30 | 30     | 30     | 30     | 30     | 30     | 30     | 30     | 30     | 30     | 30     | 30     | 30     | 30     | 30     | 30     | 30     | 30     | 30     | 30     | 30     | 30     | 30     | 30     |        |
| 31 | 31     | 31     | 31     | 31     | 31     | 31     | 31     | 31     | 31     | 31     | 31     | 31     | 31     | 31     | 31     | 31     | 31     | 31     | 31     | 31     | 31     | 31     | 31     |        |
|    | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    | Oct    | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    | Oct    | Nov    | Dec    |

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| <p><b>Code</b></p> <p><b>Pattern</b></p> <p>0  Outage Maintenance</p> <p>0  Cooling Towers Turned Over</p> <p>0  Intra Run Cycle Maintenance</p> <p>0  H- Ion Source Recycle</p> <p>0  Documentation / Shut Down</p> <p>0  Start Up All Areas / Tune Recovery</p><br><p>0  Beam to Sectors J-D &amp; IPF, Maintenance Downstream of Sec. D</p> <p>0  Beam to 211 MeV, Maintenance Downstream of Sec. D</p> <p>0  Beam to 800 MeV, Maintenance in LB/C, LDS, &amp; downstream</p> <p>0  COVID-19 Minimal Staffing/IPF in Warm Standby</p><br><p> B Friday</p> <p> # Holiday and/or Laboratory Closure</p> <p> # Weekend</p> | <p><b>Code</b></p> <p><b>Pattern</b></p> <p>1  Production to All Areas</p> <p>2  Tgt 2 Linac Beam, Production Other Areas</p> <p>3  Tgt 2 PSR Beam, No beam to Lujan</p> <p>4  Machine Intervention / Studies</p> <p>5  IPF Production Only</p><br><p>CY20 Beam Delivery</p> <p>Lujan</p> <p>pRad/UCN</p> <p>WNR Sole Use</p> <p>WNR Tgt 4</p> <p>WNR Tgt 2</p> <p>IPF</p> <p>Machine Intervention</p> | <p>Shifts</p> <p>Hours</p> <p>276</p> <p>2208</p> <p>276</p> <p>2208</p> <p>6</p> <p>48</p> <p>270</p> <p>2160</p> <p>6</p> <p>400</p> <p>3200</p> <p>12</p> <p>96</p> |
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|---|--|
| <p><b>Code</b></p> <p><b>Pattern</b></p> <p>1  Production to All Areas</p> <p>2  Tgt 2 Linac Beam, Production Other Areas</p> <p>3  Tgt 2 PSR Beam, No beam to Lujan</p> <p>4  Machine Intervention / Studies</p> <p>5  IPF Production Only</p> | <p>Lujan</p> <p>T4</p> <p>T2 linac</p> <p>T2 PSR</p> <p>PRAD</p> <p>UCN</p> <p>IPF</p> |
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