

Site C Review - Responses to questions raised by Deloitte

August 16th, 2017

CONFIDENTIAL

| No. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|------------------------------|----------------------------------|------------------------------|-------------------------------|----------------|-------|-----|-----|--------------------|-----|-----|-----|------------|-------|-----|-----|------------------|-------|-----|-----|----------------------|-----|-----|-----|------------------|-----|-----|-----|--------------------|-----|-----|-----|
| 63 | Date/Source of Question: Follow up from [REDACTED] meeting (Email from [REDACTED] August 16, 2017 at 10:23am) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Response provided by: [REDACTED] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Functional Approver: [REDACTED] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Question: Requested data on current facilities and contracts - Capacity factors? | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>Response:</p> <p>Refer to the table below for the requested information on the capacity factor at BC Hydro's largest seven generating facilities.</p> <p>Note that this table provides two numbers:</p> <ul style="list-style-type: none"> - The capacity factor reflecting current plant characteristics and water license terms. - Our forecast capacity factor, which would reflect committed planned upgrades at facilities and other expected changes to operations. <ul style="list-style-type: none"> o For example, the forecast Mica capacity factor would reflect the recent addition of capacity at the project (units 5 and 6), while the current capacity factor would not reflect these additions. o Note that Revelstoke Unit 6 is not included in the forecast capacity factor as that resource is not currently committed (although it is expected to be constructed at some point in our planning work). o Other potential sources of additional capacity identified by BC Hydro, e.g. GMS U1-5 Capacity Upgrade, SEV U1-3 Turbine Replacement, are also not included in the forecast capacity factor as they are also not committed. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th></th> <th>Plant Capacity (MW) (Current)</th> <th>Capacity Factor (Current)</th> <th>Capacity Factor (Forecast)</th> </tr> </thead> <tbody> <tr> <td>GM Shrum (GMS)</td> <td>2,730</td> <td>55%</td> <td>52%</td> </tr> <tr> <td>Peace Canyon (PCN)</td> <td>694</td> <td>51%</td> <td>48%</td> </tr> <tr> <td>Mica (MCA)</td> <td>2,318</td> <td>35%</td> <td>29%</td> </tr> <tr> <td>Revelstoke (REV)</td> <td>2,480</td> <td>36%</td> <td>36%</td> </tr> <tr> <td>Kootenay Canal (KCL)</td> <td>583</td> <td>62%</td> <td>62%</td> </tr> <tr> <td>Seven Mile (SEV)</td> <td>805</td> <td>44%</td> <td>43%</td> </tr> <tr> <td>Bridge River (BRR)</td> <td>478</td> <td>59%</td> <td>59%</td> </tr> </tbody> </table> | | Plant Capacity (MW) (Current) | Capacity Factor (Current) | Capacity Factor (Forecast) | GM Shrum (GMS) | 2,730 | 55% | 52% | Peace Canyon (PCN) | 694 | 51% | 48% | Mica (MCA) | 2,318 | 35% | 29% | Revelstoke (REV) | 2,480 | 36% | 36% | Kootenay Canal (KCL) | 583 | 62% | 62% | Seven Mile (SEV) | 805 | 44% | 43% | Bridge River (BRR) | 478 | 59% | 59% |
| | Plant Capacity (MW) (Current) | Capacity Factor (Current) | Capacity Factor (Forecast) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GM Shrum (GMS) | 2,730 | 55% | 52% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peace Canyon (PCN) | 694 | 51% | 48% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mica (MCA) | 2,318 | 35% | 29% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Revelstoke (REV) | 2,480 | 36% | 36% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kootenay Canal (KCL) | 583 | 62% | 62% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Seven Mile (SEV) | 805 | 44% | 43% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bridge River (BRR) | 478 | 59% | 59% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>We offer caution on the use of the above data to determine potential for expansion of generating capacity at a facility. In BC Hydro's experience the potential to increase generating capacity at a hydro facility is highly dependent on the specific facility conditions, including site geology/topography, the dam type, and local hydrology.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |