# Load Rating Form

*(Form to be registered separately for each underbridge on the ARTC Asset management system Ellipse)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Rating Date | | | | | | */*      */* | | | | | | | | | | | | | | | |
| Company / Rating Engineer | | | | | | */* | | | | | | | | | | | | | | | |
| Load Rating - Limit State *[[1]](#footnote-1)* | | | | | |  | | | | | | | | | | | | | | | |
| Asset (Ellipse Equipment #) - Underbridge Name - Railway Line - Chainage | | | | | | *-*       *-*      *-* | | | | | | | | | | | | | | | |
| Underbridge Type – Year of Construction | | | | | | *-* | | | | | | | | | | | | | | | |
| Overall Length –Number of spans- Span Configuration | | | | | | *-*       *-* | | | | | | | | | | | | | | | |
| Latest Bridge Inspection Date and Report (Ellipse Equipment #) | | | | | | *-* | | | | | | | | | | | | | | | |
| Technical documents including site investigations, calculations, tests, fatigue assessment, SHM, computer models, etc. (Ellipse Equipment #) | | | | | |  | | | | | | | | | | | | | | | |
| Nominated Rating Vehicle *[[2]](#footnote-2)* | | | | | |  | | | | | | | | | | | | | | | |
| **Underbridge component** | **Design action / Combined actions** | **(m)** | **(m)** | **(As New)** | **(As Is)** | **(kN.m / kN)** | **(As New)**  **(kN.m / kN)** | **(As Is)**  **(kN.m / kN)** |  |  | **(kN.m / kN)** |  | **(Full)** |  |  | **(kN.m / kN)** | **As new** | | **As is** | | **Underbridge Management**  Note reduced speed or other action to be taken to set RF=1 - Refer clause 6 |
|  |  |  |  |  |
| *Girder [[3]](#footnote-4)* | *Moment* **[[4]](#footnote-5)** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Underbridge component limiting LR** [[5]](#footnote-6) | | | |  | | | | | | | | | | | | | | | | | |
| **Remaining Fatigue Life Estimation (Yrs)** | | | |  | | | | | | | | | | | | | | | | | |
| **Remarks** | | | |  | | | | | | | | | | | | | | | | | |

* *For notations, refer to AS5100.7: 2017, Section 14*

|  |  |  |
| --- | --- | --- |
| Name & Position Title ………………………… | Signature ………………………… | Date ………………………… |
| ………………………… |  |  |

1. *Limit States e.g. ULS or SLS.*  [↑](#footnote-ref-1)
2. *Nominated Rating Vehicles may include, but not limited to the Appendix A of this procedure. ARTC to confirm required nominated rating vehicle to be assessed as per this form.*  [↑](#footnote-ref-2)
3. *Additional rows shall be added to note load rating subsequent to the other underbridge components.* [↑](#footnote-ref-4)
4. *Additional design actions / combined actions shall be added.* [↑](#footnote-ref-5)
5. *Underbridge component limiting LR shall be noted.* [↑](#footnote-ref-6)