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| **BARRIER CORRELATION ASSESSMENT CHECKLIST (FOR SIMULATION ASSESSED SYSTEMS)** |
| Submission Date: |  Click here to enter a date. | Contact Details: |
| Manufacturer: |   |
| Product Name: |   |
|  | Barrier 1: |   |
| Barrier 2: |   |
|  |  |  |  |  |  |
| **Documents and Multimedia to be Provided for Each Simulation\*** |
| # | Item | Comment | Item Submitted for both barriers (Y/N) |
| 1 | Formal technical report  | Including model construction details, vehicle positioning and close-up views of the mesh details | Choose an item. |
| 2 | Videos showing global performance and local deformation characteristics | Various view angles such as Front, Side, Rear, Top and Iso | Choose an item. |
| 3 | Recorded bolt forces and comparison to installation data | Time history files and effective stress calculation | Choose an item. |
| 4 | Failure mechanism or localised buckling review and comparison | Photos from Test and Still Images from Simulation  | Choose an item. |
| 5 | Energy balance | Total, Kinetic, Sliding Interface, Internal and Hourglass Energies | Choose an item. |
| 6 | Barrier material model data source and model implementation | Curves of stress-vs-strain and conversion to model input | Choose an item. |
| 7 | Element types and integration points | With reference to the software version | Choose an item. |
| 8 | Statement on the validation of the vehicles used for simulation | Data showing correlation achieved to vehicle only test, other barrier test or assumptions made on performance.  | Choose an item. |
| 9 | Comparison measurements at key deformation points | Matching points on Test and Simulation using the same measurement method. | Choose an item. |
| 10 | ASI, THIV and Exit box overlay and proof of validity | Still Image comparison.  | Choose an item. |
| 11 | Statement of rigid and deformable elements within the barrier and vehicle | Visual layout  | Choose an item. |
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| **Simulations Submitted** |
| # | Simulation Date | Supplier (if not Manufacturer) | Unique ID | Comments |
| 1 |  Click here to enter a date. |   |   |   |
| 2 |  Click here to enter a date. |   |   |   |
| 3 |  Click here to enter a date. |   |   |   |
|   |
| Submitted By: |  | Signature: |  |
|  |  |  |
|  |  |  |  |  |  |
| \*All documents which are not English will have to be translated. |