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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. |
|  |  |  | | | | |  | | | | | |  |
| **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: | | |  | |
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|  |  |  | | | |  | | |  | | | |  |
| \*All documents which are not English will have to be translated. | | | | | | | | | | | | | |