



SUPERVISOR'S REPORT ON THE MASTER'S THESIS

Master's thesis title..... **Numerical simulation of impact with the barriers**
Author (including degrees)..... **Raissa Likhonina**
Master's thesis supervisor (incl. deg.) **Doc. Ing. Michal Micka, CSc.**

Evaluation criteria and their classification

Fulfilment of the master's thesis requirements and goalsA (excellent) ... 1,0
Self-action and own initiative
during the master's thesis elaborationA (excellent) ... 1,0
Application of knowledge gained
by self-study and from professional literature.....A (excellent) ... 1,0
Usage of groundwork and data from practiceA (excellent) ... 1,0
Professional level and contribution of the master's thesis.....A (excellent) ... 1,0
Formal aspects of the master's thesisA (excellent) ... 1,0

Further comments to the master's thesis:

The master's thesis is a continuation of the bachelor's thesis, where the problem of a vehicle crash into barriers was solved as a static stress problem using the ANSYS Workbench program. Now the task is solved as a dynamic problem in the program LS DYNA. Numerical simulation of vehicle crash into safety barriers allows the calculation to verify whether the barriers meets the standard requirements. Solved task is demanding, requires a broad knowledge and is also time consuming. Graduant worked on the master's study with great enthusiasm and interest in this issue.

I **recommend** the master's thesis for the defence.

Summary classification of the master's thesisA (excellent) ... 1,0

Doc. Ing. Michal Micka, CSc.

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master's thesis supervisor 's name

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master's thesis supervisor 's signature

In Prague June 1, 2015 -