Master thesis opponent’s review

Master thesis: Technical Analyse of Microgrids
Author: Ahmad Alshammari
Thesis opponent: Prof. Ing. Josef Tlustý, CSc.

Rating (1 – 5)
(1 = best; 5 = worst):

1. Fulfillment of assignment requirements: 2
2. Systematic solutions of individual tasks: 2
3. Ability to apply knowledge and to use literature: 1
4. Thesis formal and language level: 2
5. Thesis readability and structuring: 2
6. Thesis professional level: 2
7. Conclusions and their formulation: 2

8. Final mark evaluation (A, B, C, D, E, F):
   verbal: B
   very good

Brief summary evaluation of the thesis (compulsory):
The student fulfilled all the essential assignment requirements. Master's thesis is focused on the
description of generation and distribution infrastructure in microgrids. The thesis has a good
structure going from theoretical chapters to calculation parts and conclusions. The worse quality of
some figures or a non-standard referencing are formal mistakes. General chapters are devoted to
projects of microgrids in Europe. The author focuses on network architecture, protection and
control. The core of thesis is a case study of the microgrids with small solar power plants
connected to LV distribution network. The final calculations are very well organized and
informative. The work has a logical sequence of chapters and its graphical layout is very good. The
thesis includes many interesting information and could be used as educational material.

Questions:
1. I would like to explain the benefits of microgrids compared to the classic distribution grids.

Recommendation to the defense: I recommend

Date: 5.6.2018
Signature:
Notes:
1) The total thesis evaluation needn’t be determined by the partial evaluations average.
2) The total evaluation (item 8) should be from the following scale:

<table>
<thead>
<tr>
<th>excellent</th>
<th>very good</th>
<th>good</th>
<th>satisfactory</th>
<th>sufficient</th>
<th>insufficient</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
<td>E</td>
<td>F</td>
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