CZECH TECHNICAL UNIVERSITY IN PRAGUE
Faculty of electrical engineering
Department of electrical power engineering
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Master thesis supervisor's review

Master thesis: **Harmonic currents compensation in industrial applications**

Author: **Bc. Šimon Szczotka**

Thesis supervisor: **Ing. et Ing. Jan Pígl**

	Rating (1 – 5) (1 = best; 5 = worst):
1. Fulfillment of assignment requirements:	1
2. Self-reliance and initiative during the thesis solution:	1
3. Systematic solutions of individual tasks:	1
4. Ability to apply knowledge and to use literature:	1
5. Collaboration and consultations with the thesis supervisor:	1
6. Thesis formal and language level:	2
7. Thesis readability and structuring:	1
8. Thesis professional level:	1
9. Conclusions and their formulation:	1
10. Final mark evaluation (A, B, C, D, E, F):	A
verbal:	Excellent

Brief summary evaluation of the thesis (compulsory):

Author fulfils the aim of the master thesis in the whole extent. Application of the knowledge from the introductory theoretical chapters was performed on the real example of the electrical installation described in the chapter 4. Author works actively with foreign literature and standards (not only with IEC standards but as well with IEEE standard) to provide readers up to date information in this field. Application of modern computational resources in solving this problem is also very valuable since these tools significantly contribute to better understanding of the whole problem. The work represents the coherent material that can serve as a basis for analysing harmonic currents their mitigation and filtering in the electrical distribution.

Questions to defense

1. Why have you applied standard IEEE 519 in your work? What does standard IEEE 519 describe? Compare this standard with related standard IEC 61000-2-4.

Date: 19.1.2017 Signature: