THESIS SUPERVISOR FORM

1. Identification of the student:

Student:	Gourd Constantin
Thesis:	Static Stress Analysis of the Janov Dam - Historic Masonry Gravity Dam
1st Institution:	Universidade do Minho
2nd Institution:	Czech Technical University in Prague, Czech Republic
Academic year:	2022/2023

2. Identification of the supervisor:

Name:	Ing. Miroslav Broucek, Ph.D.
Institution:	Czech Technical University in Prague, Czech Republic
Position:	Assistant professor

3. General comments

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Numerical modelling of the gravity dam behaviour is generally a rather specific topic which requires a certain level of experience and understanding not only the mathematical basis of the models but also of all the phenomena playing significant roles in dam engineering, such as groundwater flow and seepage problems, dam monitoring, material and construction and mostly geotechnical aspects, etc. The topic of the thesis must therefore be regarded as quite challenging for anyone without appropriate training in the dam engineering field and the lack of previous experience and knowledge of the student in this specific area must be considered when evaluating this thesis. Especially when the terminology is concerned.

It should be also stressed that the thesis was the student's first encounter with the software ATENA and he had to master the operation of the software only with the help of the supervisor and limited technical support from the software producer.

The final grade resulted from the following set of criteria used for the evaluation of the thesis or more precisely the student's performance during the entire process. The criteria do not carry the same weight and the final grade is therefore not an arithmetic average.

1) Activity of the student during information gathering (interest in the specific topic)

   Excellent – the student showed real interest in the selected topic and successfully gathered interesting historical evidence about the structure.

2) The ability to expand his perspective according to the requirements of the problem at hand

   Excellent – the student read many published papers and several books dealing with gravity dam numerical modelling, stone masonry modelling and dam engineering in general on top of recommended literature, which expanded his knowledge in the field.

3) Creative approach and use of theoretical knowledge

   Very good – the student was able to apply the knowledge obtained in the extensive study of the assessment and numerical modelling of the masonry gravity dams constructed during the WWI era.

4) Balancing of the individual parts, including formal processing

   Very good – although the descriptive parts of the thesis are well balanced, the tight schedule time before the submission of the thesis did not allow for the presentation of all the gathered results and more comprehensive comments on the obtained results.

5) Fulfilling the objectives of the thesis

   Very good – the student was able to fulfil all the objectives assigned. The limited time before the submission of the work left little space for proofreading after translation to English which resulted in clarity issues in several parts of the thesis.

4. Grade: B (very good)

Use the following scale

A (excellent)	B (very good)	C (good)	D (satisfactory)	E (sufficient)	F (fail)

Prague, Czech Technical University in Prague

July 20th, 2023

The Supervisor,

Ing. Miroslav Broucek, Ph.D.