

<b>DEPARTMENT OF BUILDING SERVICES</b>
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## II. EQUIPMENT

### II.1 Teaching and Research Laboratories

Laboratory - Trnávka  
Applied Precision Ltd., Bratislava  
Imos - Asec, Ltd., Bratislava

### II.2 Special Measuring Instruments and Computers

Bruel & Kjer Thermal Comfort Analyzer  
Anemometer  
Izomet 104  
Globe Meter  
Measuring Unit

#### Computer room:

PC computers: DTK 486, Escom 368, Eurocomp-Pentium, Pentium 200  
Plotter, printer

## III. TEACHING

### III.1 Graduate Study

Subject	Semester	Hours Per Week		Lecturer
		Lectures	Seminars	
Technical Equipment of Buildings	4	2	2	Peráčková, Tonhauzer
Technical Equipment of Buildings II	5	2	1	Petráš, Lulkovičová
Technical Equipment of Buildings III	6	2	1	Székyová, Boďo
Internal Water and Gas Piping	7	3	2	Valášek, Tonhauzer
Internal Drainage	7	2	1	Valášek
Ventilation	7	2	2	Székyová
Heating I	7	2	2	Lulkovičová
Heating II	8	2	2	Petráš
Design IV	7	0	3	Peráčková
Design V	8	0	4	Kalús
Design VI	9	0	4	Székyová
Design VII	10	0	4	Lulkovičová
Air Conditioning	8	2	2	Székyová
Computer Design Systems	8	0	3	Magyar, Ihradský
Measuring and Control I	8	2	2	Koudelková
Measuring and Control II	9	2	2	Ehrenwald,
Energy Supply of Buildings	8	2	1	Takács
Excursions	9			Takács

Building Control Systems	10	2	2	Ehrenwald
Special Seminar	9, 10	0	2	Peráčková, Kalús, Székyová
Heating Audit	10	1	3	Petráš
Technical Equipment of Buildings	3	1	1	Peráčková, Valášek
Heating Systems	9	2	2	Petráš
Industrial Installations	9	2	2	Hrbatý
Renewable Energy in Technical Equipment of Buildings	9	2	2	Lulkovičová, Takács
Ventilation & Air Conditioning Systems I	9	2	2	Leimberger
Industrial Air Conditioning Systems II	9	2	2	Székyová
Sanitation Audit	10	1	3	Peráčková
Ventilation Audit	10	1	3	Leimberger
Combustion Technology	10	2	1	Lulkovičová
Fire Engineering – Technical Equipment of Buildings	9	2	2	Jánošková
Diploma Seminar	10			
Internships				Peráčková, Kalús, Székyová
Technology Equipment	9	2	2	Tonhauzer
Sanitary-Technical Equipment	10	2	1	Valášek
Operation of Air Conditioning Systems	10	2	1	Székyová

#### IV. RESEARCH TARGETS

- measuring and control systems in heating
- indoor climate and indoor air quality of buildings
- modernization of sanitation and ventilation
- rational use of fuels and energy
- ecological city

#### V. RESEARCH PROJECTS

1. Economizing on Energy Consumption and the Thermal State of Heated Interiors via the Application of Measuring, Control and Automation Techniques (3 years, Prof. Petráš)
2. The Effect of Control Systems on the Quality of an Indoor Environment and Increasing the Efficiency of the Technical Equipment of Buildings (3 years, Prof. Valášek)

#### International Projects

1. Low Energy Systems in Relation to Renewable Energy Sources (Prof. Petráš, et al.)
2. INTUSER – Information Network on the Technology of Utilization and Sustainability of Energy Resources (Prof. Petráš, et al.)
3. Energy Audit of Buildings – Updating Methodologies and Tools (Prof. Petráš, et al.)

4. ECOCITY - Urban Development Towards Appropriate Structures for Sustainable Transport (Prof. Petráš - a leading representative of the Department of Building Services)
5. SOCRATES – Student Mobility - FH Pinkafeld (Austria), DTU Lyngby (Denmark)
6. SOCRATES – Cooperation with WÄRMEPUMPEN (Heat Pumps) Intensive Program. FH Pinkafeld (Austria)
7. Austria - Slovakia - Dissemination of Cooperation in the Field of Education and Legislation (Assoc. Prof. Lulkovičová, 2003)

## **VI. COOPERATION**

### **VI.1 Cooperation in Slovakia**

1. VVÚPS-NOVA, Bratislava
2. Institute of Construction and Architecture, Slovak Academy of Science, Bratislava
3. University of Technology, Košice
4. Geberit-Slovakia, Bratislava
5. Armaturex, Ltd., Bratislava
6. Slovak Institute of Technical Normalization, Bratislava
7. Technical Testing Institute, Piešťany
8. Ministry of Town Planning and Construction of the Slovak Republic, Bratislava
9. Technical University, Košice
10. Technical University, Žilina
11. The Ministry of the Environment of the Slovak Republic
12. Slovgeoterm Bratislava
13. Slovak Health Spa - Piešťany
14. Slovak Metrology Institute Bratislava
15. Tabak Bratislava
16. SEA - Slovak Energy Agency
17. SSTP - Slovak Society of Environmental Techniques
18. DEVI, Ltd. Bratislava
19. Witzemann Slovakia, Ltd., Bratislava
20. DEVI, Ltd., Bratislava
21. Herz, Ltd., Bratislava
22. Town Planning Department, Trnava
23. TMS - Montys, Ltd., Bratislava

### **VI.2 International Cooperation**

1. ENSI - Energy Saving International AS, Oslo, Norway
2. Hansa, AG, Burglengenfeld, Germany
3. Geberit, AG, Rottenbrunn, Germany
4. GAS, Ltd. Prague, Czech Republic
5. ČVÚT – Civil Engineering Faculty, Prague, Czech Republic
6. VÚT, Brno, Czech Republic
7. Deutsche Institute für Bautechnik, Berlin, Germany
8. Czech Association of Civil Engineers, Prague, Czech Republic
9. ASHRAE – Atlanta, Georgia, USA
10. REHVA – Brussels, Belgium
11. Fachhochschule Pinkafeld, Austria

12. The Danish Technical University – International Center for the Indoor Environment and Energy, Lyngby, Denmark
13. Technical University, Budapest, Hungary
14. Hansa, Ltd., Kralovice, Czech Republic
15. LDM, Ltd., Česká Třebová, Czech Republic

### VI.2.1 Visitors to the Department

1. Prof. Papež, K.; The Czech Technical University of Prague, Czech Republic
2. Assoc. Prof. Hirš, J., K.; The Technical University of Brno, Czech Republic
3. Assoc. Prof. Kabele, K. ; The Czech Technical University of Prague, Czech Republic
4. Dipl. Ing. Zaphel, W.; Fachhochschule Pinkafeld, Austria
5. Dipl. Ing. Trond Dahlsveen, Energy Saving International, Ltd., Oslo, Norway
6. Assoc. Prof. Kuba, J., Mining University, the Faculty of Civil Engineering, Ostrava, Czech Republic

### VI.2.2 Visits of Staff Members and Postgraduate Students to Foreign Institutions

1. Petráš, D.:ASHRAE Meeting 2003 – USA
2. Petráš, D.: International Conference on Heating 2003, Prague, Czech Republic
3. Petráš, D.:REHVA General Assembly
4. Petráš, D.: OECD – PEB meeting
5. Petráš, D.: IBPSA, CIAR
6. Petráš, D.: CLIMA 2000
7. Petráš, D.: AQUATHERM Prague, Czech Republic
8. Lulkovičová, O.; Petráš, D.; Valášek, J.; Ehrenwald, P.; Jánošková, T.; Ihradský, J.; Z.; Kožuchová, S.; Sumec, A. – Fachhochschul, Pinkafeld, Austria
9. Valášek, J.: Geberit, Hungary
10. Valášek, J.: German Technical University, Berlin, Germany
11. Lulkovičová, O.; Székzová, M.; Mikuška, P.; Ihradský, J.: Trox, Ltd., Vienna, Austria

## VII. THESES

### VII.1 Graduate Theses

No.	Student's Name	Title	Supervisor
1.	Barla	Air Conditioning of Selected Spaces in a Hotel	Székyová
2.	Betušťák	Ventilation and Air Conditioning of a Kitchen and Canteen	Székyová
3.	Černáková	Air Conditioning in an Operating Room	Székyová
4.	Kolenčík	Ventilation in an Indoor Swimming Pool	Boďo
5.	Kozmenko	Air Conditioning in Operating Rooms	Székyová
6.	Krajčík	Ventilation in a Kitchen with a Canteen	Boďo
7.	Lavo	Ventilation in a Canteen	Boďo
8.	Fábry	Final Project for Internal Water Piping and Water Connections in a High-Rise Office Building, Including the Design of a Pumping Station	Valášek
9.	Hellebrant	Final Project for Sanitary Installations in a Dwelling	Valášek

10.	Krakovik	Final Project for Internal Drainage in a Dwelling	Peráčková
11.	Mošadová	Final Project for Internal Drainage in a Dwelling	Peráčková
12.	Pálka	Technological Piping in an Industrial Area - Delivery of Compressed Air Means - Final Project	Tonhauzer
13.	Marcinát	Final Project for an Indoor and Outdoor Drainage System in the Centre of Social Aid for Children	Tonhauzer
14.	Pilarčík	Final Project for Sanitary Installations in a Semi-Functional Building	Valášek
15.	Rostás	Final Project for Sanitary Installations in a Semi-Functional Building	Valášek
16.	Šlengerová	Design of Wrench Equipment in a Department Store	Jánošková
17.	Pastuchová	Ventilation in an Indoor Swimming Pool in a Sports Centre	Székyová
18.	Bundzelová	Design of a Solar Energy System with Year Round Operation	Lulkovičová
19.	Cirák	Design of Low-Temperature Heat Delivery Systems in a Low-Energy House	Petráš
20.	Duranka	Decentralization of a Heating System in an Industrial Hall with a Local Gas Boiler Room for an Office Building	Kalús
21.	Kardoš	The Design of a Bivalent Solar Energy System with Year Round Operation for a Dwelling in Vrakuňa	Lulkovičová
22.	Kokinda	Electrical Heating for a Large-Scale Building	Kalús
23.	Piecka	Design of Low-Temperature Heating with a Heat Pump for a Low-Energy House	Petráš
24.	Pollák	Final Project for a Hot Water Heating System in a Winter Garden from a Heat Delivery Station into Geothermal Water	Takács
25.	Repčík	Design of Low-Temperature Systems in a Holiday Centre - Renewable Energy Base	Petráš
26.	Tomáš	Combined Decentralized Gas Heating in a Large-Scale Building	Kalús
27.	Uhnák	Final Project for a Hot Water Heating System in the Podhájske Winter Garden	Takács
28.	Baronová	Hydronic Control of a Low-Temperature Heating System in an Office Building	Petráš
29.	Pekarovič	Design of a Low-Energy System in a Dwelling - Renewable Energy Base	Lulkovičová
30.	Podmaka	Design of a Heat Source and Heat Pump for an Office Building	Lulkovičová

## VIII. OTHER ACTIVITIES

### VIII.1 Special Lectures

- [1] Organization of an International Conference on Heating 2003, Tatranské Zruby, 2003
- [2] Organization of the SANHYGA International Conference 2003, Piešťany, 2003
- [3] Organization of an International Conference on the Indoor Climate of Buildings 2003, Štrbské Pleso

## VIII.2 Commercial Activities for Firms and Institutions

1. PETRÁŠ, D. et al : Energy Audit of Heat Delivery for Matador .
2. TAKÁCS, J. et al : A Case Study of Heat Delivery for " Master WOOD" Industrial Operation on Amadeho Street in Kračany
3. LULKOVIČOVÁ, O. et al : Technical Review of Insulation Work on Cooling Piping in AB2 Building, Vajnorská Street, Bratislava
4. LULKOVIČOVÁ, O. et al : Professional Review of the Hot Water Piping in the Radisson SAS Carlton Hotel
5. LEIMBERGER, P. et al : Consulting Engineer Supervisor and His Participation in a Test of PVE Renovated Air Conditioning in Čierny Váh
6. PETRÁŠ, D. et al : Review of a SO-22 05 Heat Delivery Station, Slovnaft Area

## IX. PUBLICATIONS

### IX.1 Journals

- [1] PERÁČKOVÁ, J.: New Rules for Calculating Heat Transmission in Building Services. Vytápění, větrání, instalace 1/2003, STP Prague, 2003, pp. 38-42 (in Slovak)
- [2] PERÁČKOVÁ, J.: New Rules for Calculating of Heat Transmission in Building Services. Vytápění, větrání, instalace 2/2003, STP Prague, 2003, pp. 61-63 (in Slovak)
- [3] BEŇO, S.: A Gas Pipeline. In: TZB Haustechnik 1/2003. Alfa konti, Ltd., Bratislava, 2003, pp. 39, 40, 48 (in Slovak)
- [4] JÁNOŠKOVÁ, T.: Comparison of the Operational Requirements for Heat Cost Calculating Equipment Used in Slovakia. TZB Haustechnik 2/2003. Alfa konti, Ltd., Bratislava, 2003, pp. 33-35 (in Slovak)
- [5] LULKOVIČOVÁ, O. - KOŽUCHOVÁ, S.: Level of Devaporation Boiler Utilization - Liquid Fuel Base. In: TZB Haustechnik 1/2003. Alfa konti, Ltd., Bratislava, 2003, pp. 14-16 (in Slovak)
- [6] DALSVEN, T. - PETRÁŠ, D.: Energy Audit - Part 1: Key Numbers for the Slovak Republic. In: TZB Haustechnik 1/2003, Alfa konti Ltd. Bratislava, 2003, pp. 6-13 (in Slovak)
- [7] DALSVEN, T. - PETRÁŠ, D.: Energy Audit - Part 2: Business Plan. In: TZB Haustechnik 2/2003, Alfa konti Ltd., Bratislava, 2003, pp. 6-10 (in Slovak).
- [8] PERÁČKOVÁ, J.: Progressive Insulation in Building Services. In: Stavba 9/2003, MF Slovensko, Ltd., 2003, pp. 34-38 (in Slovak).
- [9] KOUDELKOVÁ, D.: Electrical Floor Heating by Renovating a Heating Source. In: Stavba 9/2003, MF Slovensko, Ltd., 2003, pp. 46-48 (in Slovak)
- [10] KOUDELKOVÁ, D.: Economic Efficiency of Electrical Floor Heating Systems. In: TZB Haustechnik 4/2003, Alfa konti Ltd. Bratislava, 2003, pp. 38-40 (in Slovak)
- [11] EHRENWALD, P.: STN EN 12828 – STN EN 2828 - Heating Systems in Buildings. Design of Water Heating Systems. In: Normalizácia 5/2003, ÚNMS SR a SÚTN, Bratislava, 2003, pp. 6-8 (in Slovak)
- [12] JÁNOŠKOVÁ, T.: Measurement and Calculation of Heat Consumption in Dwellings. In:

- Stavba 9/2003, MF Slovensko, Ltd., 2003, pp. 26-29 (in Slovak)
- [13] VALÁŠEK, J.- BEŇO, S.- SUMEC, A.: Sanitary-Technical Installations, Part 4. In: TZB Haustechnik 5/2003, Alfa konti, Bratislava, 2003, pp. 17-20 (in Slovak)
- [14] KURČOVÁ, M.: How to Provide Economic Heating. In: Stavba 9/2003, MF Slovensko, Ltd., 2003, pp. 60-61 (in Slovak)
- [15] VALÁŠEK, J.: Protection of Drinking Water in an Internal Water Pipeline According to the STN EN 1717 Standard. In: TZB Haustechnik 3/2003, Alfa konti Ltd. Bratislava, 2003, pp. 38-40 (in Slovak)
- [16] ŠABÍKOVÁ, J.: An Indoor Environment. In: Stavba 9/2003, MF Slovensko, Ltd., 2003, pp. 62-63 (in Slovak)
- [17] ŠABÍKOVÁ, J.: Living in Denmark. In: Stavba 10/2003, MF Slovensko, Ltd., 2003, pp. 20-22 (in Slovak)
- [18] MAGYAR, J.: New STN EN 12831 on Calculation Method for Designed Input. In: Normalizácia 5/2003, ÚNMS SR a SÚTN Bratislava, 2003, pp. 9-11
- [19] MAGYAR, J.: Solar Heating. In: Projekty rodinných domov. 1/2003, Jaga Bratislava, 2003, pp. 106-107 (in Czech)
- [20] MAGYAR, J.: Effective Classical Alternatives. In: Projekty rodinných domov. 1/2003, Jaga Bratislava, 2003, pp. 110-112 (in Czech)
- [21] TAKÁCS, J.- KACHAŇÁK, A.: Analysis of Tools for Energy Savings in Dwellings. In: ATP Journal č. 3, HMM Ltd. Bratislava 2003, pp. 22-25 (in Slovak)
- [22] LULKOVIČOVÁ, O.: Technical Economic and Energy Aspects of Modern Heating Systems. In: Stavba 12/2002, Adore Ltd., Bratislava, pp. 42-44 (in Slovak, published in January 2003)
- [23] MAGYAR, J.: Solar Heating. In: Projekty rodinných domov. 1/2003, Jaga Bratislava, 2003, pp. 128-129 (in Slovak)
- [24] MAGYAR, J.: Effective Classical Alternatives. In: Projekty rodinných domov. 1/2003, Jaga Bratislava, 2003, pp. 133-135 (in Slovak)
- [25] PETRÁŠ, D.- DALSWEN, T.: Energy Audit of Buildings - Key - Number Method. In: Magazín Energia, 1/2003, SEA Bratislava, 2003, pp. 39-41 (in Slovak)
- [26] PETRÁŠ, D.: Utilization of Renewable Energy Sources Also Depends on a Change in Thinking. In: Trend, March 2003, Trend Holding Ltd., Bratislava, p. 23 (in Slovak)
- [27] DAHLSVEEN, T.-PETRÁŠ, D.: Energy Audit - Part 3. In: TZB Haustechnik 3/2003, Alfa konti, Bratislava, 2003, pp. 6-14 (in Slovak)
- [28] DAHLSVEEN, T.-PETRÁŠ, D.: Energy Audit - Part 4. ENCON Measures. In: TZB Haustechnik 4/2003, Alfa konti, Bratislava, 2003, pp. 6-11 (in Slovak)
- [29] DAHLSVEEN, T.-PETRÁŠ, D.: Energy Audit - Part 5. Operation and Maintenance. In: TZB Haustechnik 5/2003, Alfa konti, Bratislava, 2003, pp. 6-10 (in Slovak)
- [30] DAHLSVEEN, T.-PETRÁŠ, D.: Energy Audit - Part 6. Realization. In: TZB Haustechnik 6/2003, Alfa konti, Bratislava, 2003, pp. 6-10 (in Slovak)
- [31] EHRENWALD, P.: Energy-Saving Strategies in Automated Heating of Buildings. In: EE 9/2003, FEI STU Bratislava, 2003, pp. 9-12 (in Slovak)
- [32] EHRENWALD, P.: Slovak Technical Standards for Automation, Measuring, and Control



- of Building Services. In: Normalizácia 6/2003, ÚNMS SR a SÚTN, Bratislava, 2003 (in Slovak)
- [33] EHRENWALD, P.: Slovak Technical Standards for Automation, Measuring, and Control of Building Services. Similar German Standards. In: TZB Haustechnik 6/2003, Alfa konti, Bratislava, 2003, pp. 66-67 (in Slovak)
- [34] PETRÁŠ, D.: The Utilization of Renewable Energy Sources Also Depends on a Change in Thinking. In: Trend, March, 2003, Trend Holding, Bratislava, p. 23 (in Slovak)
- [35] PETRÁŠ, D.: Metropolitan Cities of the World - Part 29, Beijing. In: Eurostav 2/2003, Eurostav Bratislava, pp. 86-88 (in Slovak)
- [36] PETRÁŠ, D.: Energy and Environmental Audit of Buildings as a Starting Point for the Optimum Design of an Intelligent Building. In: Eurostav 2/2003, Eurostav Bratislava, pp. 46-48 (in Slovak)
- [37] PETRÁŠ, D.: Metropolitan Cities of the World - Part 28, Istanbul. In: Eurostav 1/2003, Eurostav Bratislava, pp. 60-62 (in Slovak)
- [38] PETRÁŠ, D.: Metropolitan Cities of the World - Part 31, Hong Kong. In: Eurostav 3/2003, Eurostav Bratislava, pp. 68-70 (in Slovak)
- [39] PETRÁŠ, D.: Metropolitan Cities of the World - Part 32, Tokyo. In: Eurostav 4/2003, Eurostav Bratislava, pp. 62-64 (in Slovak)
- [40] PETRÁŠ, D.: Metropolitan Cities of the World - Part 33, Nagoya. In: Eurostav 6/2003, Eurostav Bratislava, pp. 64-65 (in Slovak)
- [41] PETRÁŠ, D.: Metropolitan Cities of the World - Part 34, Dubai. In: Eurostav 7/2003, Eurostav Bratislava, pp. 71-73 (in Slovak)
- [42] PETRÁŠ, D.: Metropolitan Cities of the World - Part 35, Abu Dhabi. In: Eurostav 8/2003, Eurostav Bratislava, pp. 70-72 (in Slovak)
- [43] PETRÁŠ, D.: Faculty of Civil Engineering at the Slovak University of Technology in Bratislava - The 50th Anniversary of the Scientific - Professional Journal of Civil Engineering. In: Inžinierske stavby, No. 2 / 2002, Inžinierske stavby, Ltd., Košice, pp. 37-38 (published in 2003, in Slovak)
- [44] LULKOVIČOVÁ, O.: New Trends in the Design and Selection of Heating Systems. In: ASB 6/2003, JAGA group. Bratislava, 2003, pp. 90-94 (in Slovak)

## IX.2 Books and Textbooks

- [1] VALÁŠEK, J. et al.: Protection of Potable Water in Water Pipelines Against Pollution. How to Apply STN EN 1717. 2003, Aurius média štúdio, ISBN 80-967864-1-5, 2003, 64 pp. (in Slovak)
- [2] KUCBEL, J.: Fire Prevention in Buildings. 2003, Vydavateľstvo STU, Bratislava, ISBN 85-237-2003, 278 pp. (in Slovak)
- [3] DAHLSVEEN, T. - PETRÁŠ, D.: Energy Audit of Buildings. Editor: JAGA group, 2003, 335 pp. (in Slovak)
- [4] DAHLSVEEN, T. - PETRÁŠ, D. - HIRŠ, J.: Energy Audit of Buildings. Editor: JAGA group, 2003, 295 pp. (in Czech)
- [5] VALÁŠEK, J. - BEŇO, S.: Water Connections and Internal Water Pipelines. In: Gašparík,

- J. et al.: Manual of Technical Requirements for the Building Industry. Verlag Dashofer, Ltd. Bratislava, 2003, 16 pp. (in Slovak)
- [6] LULKOVIČOVÁ, O. - TAKÁCS, J.: Renewable Energy Sources. Vydavateľstvo STU, Bratislava 2003, 131 pp. (in Slovak)
- [7] MAGYAR, J.: Hot Water is Always Available. In: Renovation, Building, and Furnishings 1/2003. Jaga Bratislava, pp. 94-96 (in Slovak)
- [8] MAGYAR, J.: Water Boilers. In: Renovation, Building, and Furnishings 1/2003. Jaga Bratislava, pp. 97-99 (in Slovak)
- [9] VALÁŠEK, J. - BEŇO, S.: Sanitary Rooms in Flats. In: Renovation, Building, and Furnishings 1/2003. Jaga Bratislava, pp. 22-25 (in Slovak)

### IX.3 Conferences

- [1] BEŇO, S.: Review of the Technical State in a Heat Piping Network. In: Proceedings of the 5th Conference on Ph.D. Study, Brno, VÚT FS Brno, 2003, pp. 67-76 (in Slovak)
- [2] TAKÁCS, J.- LULKOVIČOVÁ, O.: Utilization of Geothermal Energy in Slovakia. In: Climate Change - Energy Efficiency, Győr, 2003, pp. 167-174 (in Hungarian)
- [3] JÁNOŠKOVÁ, T.: Review of Operational Properties of Technical Equipment to Determine Heat Consumption Used in Slovakia. In: VYKUROVANIE 2003, Tatranské Zruby, 2003, SSTP Bratislava, pp. 355-360 (in Slovak)
- [4] JÁNOŠKOVÁ, T.: Conditions for the Proper Selection, Installation, and Operation of Technical Equipment to Determine Heat Consumption. In: Heat Measurements and Calculations 2003, Piešťany, 2003, SSTP Bratislava, pp. 37 – 42 (in Slovak)
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## Results Applied in Practice

1. PETRÁŠ, D. et al.: Energy Audit of Heat Delivery for Matador
2. TAKÁCS, J. et al: A Case Study of Heat Delivery for ” Master WOOD” Industrial Operation on Amadeho Street in Kračany
3. LULKOVIČOVÁ, O. et al: Technical Review of Insulation Work on Cooling Piping in the AB2 Building, Vajnorská Street, Bratislava
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