

## **Modernization of the Kačerov – Háje tunnel lighting system and power lines, delivery and assembly of the ADCS-E system at the Roztyly station (2020 - 2021)**

delivery and assembly of the RE93/1 switchboard with the GE FANUC control system, delivery of the assembly works and material, repair of the application and visualization software

## **Modernization of the Kačerov – Háje tunnel lighting system and power lines, delivery and assembly of the ADCS-E system at the Kačerov station (2020 - 2021)**

delivery and assembly of the RE68 switchboard with the GE FANUC control system, delivery of the assembly works and material, repair of the application and visualization software

## **Repairs of the ADCS-E control systems in the RE switchboards and of the ADCS-L systems in the AB switchboards, lines B and C (2020 – 2021)**

replacement of the GE FANUC control system, replacement of the ADCS-L operator panels, repair of the application and visualization software

## **Repair of the technological ADCS-T Ethernet network at all Prague metro stations and at the control centres (2019 – 2020)**

replacement of the optical switches, including configuration, and optical patch cords, adding power supplies to the ABK communication switchboards, delivery of operator computers and SQL servers, and repairs of the visualization software

## **Modernization of the Kačerov – Háje tunnel lighting system and power lines, delivery and assembly of the ADCS-E system at the Háje station (2020)**

delivery and assembly of the RE95B switchboard with the GE FANUC control system, delivery of the assembly works and material, repair of the application and visualization software

## **Modernization of the Kačerov – Háje tunnel lighting system and power lines, delivery and assembly of the ADCS-E system at the Opatov station (2020)**

delivery and assembly of the RE70/1 switchboard with the GE FANUC control system, delivery of the assembly works and material, repair of the application and visualization software

## **Repair of the ADCS-E system at the following stations: Hlavní nádraží, I.P.Pavlova, Roztyly, Chodov, Opatov, Háje, Muzeum C, Florenc C (2019 – 2020)**

replacement of the GE FANUC control system, repair of the application and visualization software

## **Modernization and barrier-free access to public toilets in metro stations (in the implementation stage)**

**Jinonice (2017), Anděl (2018), Nám. Republiky (2018), Vltavská (2018), Skalka (2018), Palmovka (2018), Náměstí Míru (2019), Dejvická (2019), Staroměstská (2019), I.P. Pavlova (2019), Nádraží Holešovice (2019), Jiřího z Poděbrad (2019), Radlická (2020), Karlovo náměstí (2020), Zličín (2020)**

- supply of new LV switchboards for technology and lighting
- modification + supplementation of ASDŘ-T technology management system
- delivery of assembly work and material
- adding application and visualization software for ASDŘ-T system

## Technical assistance during failures and repairs of ASDŘ-T (in the implementation stage)

general contract - repairs and remedy of faults of HW and SW of the automatic dispatcher control system of the technology in metro stations and in the dispatcher workplaces of remote control of the technology, incl. workplaces of the metro protection system:

- **Repair of the control SW of line C – energy savings (2019)**
- **Repair of cabinets of the technology control system in station Hloubětín (2017)**
- **Repair of cabinets of the technology control system in station Kačerov (2016)**
- **Repair of the control and visualizing SW of selected VAC equipment in metro stations – blackout (2015 - 2016)**
- **Repair of cabinets of the technology control system in station I.P.Pavlova (2015)**
- **Repair of the VAC equipment control system in stations Dejvická and Radlická (2014)**
- **Repair of cabinets of the technology control system in stations Hradčanská and Černý Most (2014- 2015)**
- **Repair of the ASDŘ-T control system in station Smíchovské Nádraží – blackout (2014)**  
interlocking of the start of certain RM (boiler plant) switchboards in case of blackout
- **Repair of cabinets of the technology control system in stations Vyšehrad and Pankrác (2013)**
- **Stations I. P. Pavlova and Muzeum C (2013)**  
cooling of ASDŘ-E switchboards
- **ASDŘ-T - Repair of the command and signaling cable in station Stodůlky (2013)**  
transfer of all commands and signals to a new ASDŘ-T cabinet and SW adjustment
- **ASDŘ-T - Measurement of the electric power of boiler plants in 11 metro stations (2013)**  
including control system and transmission to the dispatcher workplaces
- **ASDŘ-T - Repair of the electric installation and control system of the pumping station in station Kačerov (2013)**
- **ASDŘ-T - Repair of the electric installation and control system of the hot water preparation system in station Můstek (2013)**
- **ASDŘ-T - Heating water flow indication - metro stations Želivského, Vysočany, Pražského Povstání and Háje (2012)**
- **ASDŘ-T - Adjustment of SW for the operation control of the main ventilation fans in all the metro lines to achieve energy savings (2012)**

## Reconstruction of lighting - station Dejvická (2019)

- supply of new RS, RU switchboards for lighting
- complete delivery of ASDŘ-O lighting control system
- modification + supplementation of ASDŘ-T technology management system
- delivery of assembly work and material
- production of application and visualization software for ASDŘ-O system
- adding application and visualization software for ASDŘ-T system

## Modernization of moving stairs - Náměstí Republiky (2018)

- complete delivery of ASDŘ-O lighting control system
- modification + supplementation of ASDŘ-T technology management system
- delivery of assembly work and material
- production of application and visualization software for ASDŘ-O system
- adding application and visualization software for ASDŘ-T system

## **Modernization of moving stairs and barrier-free accessibility - station Palmovka (2017)**

- complete delivery of ASDŘ-O lighting control system
- modification + supplementation of ASDŘ-T technology management system
- delivery of assembly work and material
- production of application and visualization software for ASDŘ-O system
- adding application and visualization software for ASDŘ-T system

## **ASDŘ-E (Automatic Dispatcher Control System - Power Management) and ASDŘ-O (Automatic Dispatcher Control System - Lighting) - GlobalCare – Cimplicity license (implemented - 2017 -2021)**

installation of upgrades of license SW of ASDŘ of power management and lighting in metro stations and in the central power management dispatching of the metro, technical support

## **ASDŘ-E (Automatic Dispatcher Control System - Power Management) and ASDŘ-O (Automatic Dispatcher Control System - Lighting) - GlobalCare – Cimplicity license (2015 -2017)**

installation of upgrades of license SW of ASDŘ of power management and lighting in metro stations and in the central power management dispatching of the metro, technical support

## **Repair of the ASDŘ-E in the stations Luka and Nové Butovice (2016)**

replacement of GE FANUC control system, repair of application and visualization software

## **Metro - V.A - Adjustments in the central dispatching (CD) – TCHDM (Technological Dispatching) and visualizing SW for the new stations, incl. station Dejvická (2015)**

delivery and installation of operator workstations in TCHDM, incl. adjustments of database servers, extension of the TCHDM visualizing panel in CD and the visualizing panel in the technological center of the A line - Klárov, production and installation of visualizing SW in the stations Dejvická, Bořislavka, Nádraží Veleslavín, Petřiny and Nemocnice Motol

## **Change of the system of utility water heating in station LUKA (2014)**

supplementing of the ASDŘ-T (Automatic Dispatcher Control System - Technology) control system, cabling for the connection to the LV distribution lines and technology

## **ASDŘ-E (Automatic Dispatcher Control System - Power Management) and ASDŘ-O (Automatic Dispatcher Control System - Lighting) - GlobalCare – Cimplicity license (2014)**

installation of upgrades of license SW of ASDŘ of power management and lighting in metro stations and in the central power management dispatching of the metro

## **Technical assistance during repairs and failures of ASDŘ-E (2010-12)**

general contract - repairs and remedy of faults of HW and SW of the automatic dispatcher control system of power management and lighting in metro stations and in the dispatcher workplaces of remote control

## **Metro, central dispatching - installation of license and user SW to ensure remote access to ASDŘ-E (2012)**

## **Replacement of optical switches in the backbone communication networks of ASDŘ-E in the central dispatching of the metro (2012-13)**

## **Repair of the ASDŘ-E visualizing equipment - supplementing of Pro-Face visualizing panels in electric stations of the metro (2012)**

metro stations Háje, Nové Butovice, Smíchovské Nádraží and metro depot Zličín

## **Replacement of the ASDŘ-E control system (GE FANUC) with the new GE-IP RX3i system (2012)**

metro stations Florenc B, Nádraží Holešovice, Kobylisy, Ládví, Nové Butovice, Skalka, Strašnická, Želivského, Smíchovské Nádraží, Kačerov and metro depot Hostivař

## **ASDŘ-T - adjustment of the indication SW of shutdown of main ventilation fans in all the metro lines (2012)**

### **Metro stations Zličín, Luka, Lužiny and Hůrka (2011-12)**

replacement of ASDŘ-T switchboards, incl. the control system and SW adjustment

### **Metro stations Muzeum (C line), Letňany, Prosek, Střížkov, Kobylisy, Ládví, Rajska Zahrada, Hlavní Nádraží, Černý Most, Kačerov, metro depot Hostivař, Florenc (B line) and Nádraží Holešovice (2011-12)**

cooling of ASDŘ-E switchboards

### **Metro stations Jinonice, Radlická, Nové Butovice, Zličín, Stodůlky, Luka, Lužiny, Hůrka, Palmovka, metro depot Zličín and ZTC3 (2011-12)**

ASDŘ-E - replacement of command relays in RD switchboards

### **Metro stations Muzeum (A line), Staroměstská, Flora, Strašnická, Hradčanská, Náměstí Míru, Dejvická and metro depot Hostivař (2011-12)**

ASDŘ-E - replacement of optical switches in switchboards of the GE FANUC control system

## **Repair of the monitoring equipment in the central dispatching of the metro (2011)**

replacement of PC's, SW installation and integration in the ASDŘ-E system

### **Metro station Opatov (2011)**

refurbishment of public toilets in the station - design

### **Metro station Zličín (2011)**

replacement of ASDŘ-T switchboards, incl. the control system and SW adjustment

## **Upgrade of the Cimplicity license SW (2011)**

upgrade of the GE Fanuc Cimplicity SW in all the dispatcher and service workplaces of the automatic dispatcher control system of the technology

### **Metro stations Muzeum (C line) and Rajska zahrada (2010)**

replacement of ASDŘ-T switchboards, incl. SW adjustment

### **Metro stations Skalka and Strašnická (2010)**

replacement of ASDŘ-T switchboards, incl. SW adjustment

### **Metro stations Stodůlky and Luka (2010)**

adding the indication of the pressure closure to the dispatcher workplaces with a link to the operation of the main ventilation fan

## **ZTC1 Klárov (2010)**

supplementing of ASDŘ-T (indication of the operation of the VAC device no. 23, Sympatik PS, UPS ventilation)

## **Metro station Nové Butovice (2005-09)**

refurbishment of the LV distributions lines and refurbishment of ASDŘ-T - the technology control system (pumping stations, VAC, escalators etc.) and LV distribution lines

## **IV. C2 metro line - Metro stations Ládví - Letňany (2008)**

ASDŘ-D (Automatic Dispatcher Control System - Transport), ASDŘ-E, ASDŘ-T, systems for traffic, power management and metro technology control

## **Connection of ASDŘ to CD - ETHERNET (2007)**

connection of ASDŘ-E, ASDŘ-D, ASDŘ-T in the metro stations of lines A, B, C via Ethernet to the central dispatching

## **Spare parts for DPM (2006, 2007)**

ASDŘ-E - delivery of spare parts for the operation of the Metro transport company (DPM)

## **Repair of the R 22 kV protection system - Metro station Háje (2007)**

supplementing of the ASDŘ-E control system, incl. optical interconnection and SW adjustment for ASDŘ-E

## **SW adjustments of ASDŘ-T (2007)**

SW adjustments for separation of the operation of the OZPT (protective safety workplace of the technology) and TCHD systems of the metro in the central dispatching (CD)

## **Metro station Kobylisy - supplementing of a wall closure (2007)**

SW adjustment of the ASDŘ-T control system in metro station Kobylisy in relation to the installation of a fire division

## **Metro station Jinonice (2006)**

ASDŘ-T, technology control system (pumping stations, VAC, escalators etc.)

## **Metro station Radlická (2006)**

ASDŘ-T, technology control system (pumping stations, VAC, escalators etc.)

## **Metro station Muzeum - C line (2006)**

ASDŘ-E, refurbishment of a 22 kV switching station

## **Repair of the R 22 kV protection system - station Florenc C (2006)**

supplementing of the ASDŘ-E control system, incl. optical interconnection and SW adjustment for ASDŘ-E

## **VAC in station Nové Butovice (2006)**

adjustment of VAC, electric distribution lines (lighting), construction work and I&C for MOZ (technology room)

## **Metro station Smíchovské nádraží (2006)**

ASDŘ-T, metro technology control system (pumping stations, VAC, main ventilation, heating, escalators and lifts)

## **Metro station Karlovo náměstí - Palackého náměstí underpass (2006)**

ASDŘ-T, technology control system (pumping stations, VAC, escalators etc.)

## **Refurbishment of LV distribution lines of the ASDŘ technology - II. C metro line - conversion to Ethernet (2005)**

connecting the stations of the II. C line (Háje, Opatov, Chodov and Roztyly) to the Ethernet and establishment of a test workplace of ASDŘ-T

## **Refurbishment of the ZTC1 transformer station (2005)**

ASDŘ-E, transformer station refurbishment

## **Station Chodov - refurbishment of HV lines in the ATC1 transformer station (2005)**

ASDŘ-E, refurbishment of HV switchboards in the transformer station

## **Repair of the R 22 kV protection system - Metro station Vltavská (2005)**

supplementing of the ASDŘ-E control system, incl. optical interconnection and SW adjustment for ASDŘ-E

## **Washing facility in depot Hostivař (2005)**

ASDŘ-T for VAC of the washing facility

## **Adaptation of VAC in the rooms of optical switchboards - the B line of the metro (2005)**

ASDŘ-T for VAC

## **IV. C1 metro line (Holešovice - Ládví stations) - technological part - power supply and machinery equipment (2004)**

### **ASDŘ - power management system, technological system, lighting system (2004)**

ASDŘ-T, ASDŘ-E, ASDŘ lighting, systems for control of the power management, technology and lighting of the metro

### **Interconnection of ASDŘ with the CD of the public transport system - Ethernet - stage 1 (2004)**

adaptation of ASDŘ-T in relation to a change of the transmission communication paths and change of the visualizing SW in the technological dispatching of the metro

### **MDT Kačerov (2004)**

VAC control for a converter station

### **VAC control in rooms of optical equipment in the stations Muzeum B, Smíchovské nádraží, Českomoravská, Vysočanská, Anděl, Karlovo náměstí and Křižíkova (2004)**

### **MDT Kačerov (2004)**

automatic system of remote control of the technology of the converter station and 22 kV equipment

### **Depot Kačerov, power supply of the server rooms in building A (2004)**

ASDŘ - power management system

## **Refurbishment of indication of the technology in the ATC1 building (2004)**

supplementing of the GE FANUC - CIMPLICITY control system, incl. visualizing software

## **Refurbishment of the communication network in the OSM ZTC3 building (2004)**

supplementing of the GE FANUC - CIMPLICITY control system, incl. visualizing software

## **VAC in station Palmovka (2004)**

VAC, electric distribution lines - lighting, construction work and I&C for MOZ

## **VAC in station Strašnická (2004)**

VAC, electric distribution lines - lighting, construction work and I&C for MOZ

## **Repair of the R 22 kV protection system - Metro station Kobylisy (2004)**

supplementing of the ASDŘ-E control system, incl. optical interconnection and SW adjustment for ASDŘ-E

## **Repair of the R 22 kV protection system - Metro station Ládví (2004)**

supplementing of the ASDŘ-E control system, incl. optical interconnection and SW adjustment for ASDŘ-E

## **Repair of the R 22 kV protection system - Metro station Nádraží Holešovice (2004)**

supplementing of the ASDŘ-E control system, incl. optical interconnection and SW adjustment for ASDŘ-E

## **Metro stations Anděl, Karlovo náměstí, Křižíkova, Invalidovna, Palmovka and Českomoravská (2003)**

control of the technology (pumping stations, VAC, escalators, transport operator's desks etc.) - repair after a flood 08/2002

## **Metro stations Opatov, Chodov and Rožtyly (2003)**

control of the technology (pumping stations, VAC, escalators, transport operator's desks etc.)

## **Metro station Nádraží Holešovice (2003)**

control of the technology (pumping stations, VAC, escalators, transport operator's desks etc.)

## **Metro station Florenc - C line (2002)**

VAC control for a converter station

## **Metro station Florenc - C line (2002)**

automatic system of remote control of the technology of the converter station and 22 kV equipment

## **Depot Kačerov (2001-03)**

control of exchanger stations and control of ejector blocks of radiating ceiling panels (stage I. and II.)

## **Metro station Vyšehrad (2001)**

VAC control for a converter station

## **Metro station Vyšehrad (2001)**

automatic system of remote control of the technology of the converter station and 22 kV equipment

## **Metro station Háje (2001)**

automatic system of remote control of the technology of the converter station and 22 kV equipment

## **Metro station Flora (2001)**

technology control (pumping stations, VAC, escalators etc.)

## **Metro station Želivského (2000-01)**

technology control (pumping stations, VAC, escalators etc.)

## **Metro station Háje (2001)**

control of the technology (pumping stations, VAC, escalators, transport operator's desks etc.)

## **Metro station Jiřího z Poděbrad (2000)**

technology control (pumping stations, VAC, escalators etc.)

## **Technological dispatching of the metro (1999)**

refurbishment of the dispatching equipment

## **Metro station Muzeum - C line (1999)**

technology control (pumping stations, VAC, escalators etc.)

## **Metro station Náměstí Míru (1999)**

technology control (pumping stations, VAC, escalators etc.)

## **Metro station Můstek (1999)**

technology control (pumping stations, VAC, escalators etc.)