

## Andrew I. Siverin

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E-mail: [andrey.siverin@ru.abb.com](mailto:andrey.siverin@ru.abb.com)

### Education:

- 2004-2010. Ural State University (now Ural Federal University). Faculty of Mathematics and Mechanics. Master of "Mathematics. Computer science".

### Courses:

- 2012. ABB University Switzerland. Unitrol 6800 Operation and Maintenance course.
- 2014. ABB University Switzerland. J693 Control Builder Programming for Unitrol 6000.
- 2015г. НПП «ЭКРА» The course of microprocessor-based relay protection for stationary equipment.
- 2018. ABB University Switzerland. Unitrol 6000 Medium Upgrade to Unitrol X-Power.

### Work Experience:

- 2010 - 2017

CJSC "Uralenergo-souz". Commissioning Engineer  
Department of excitation of synchronous generators systems.

### Responsibilities:

- Test and commissioning of excitation system.
- Customer service and support
- Correction of project documentation
- Erection supervision.
- Troubleshooting

Work with excitation systems of JSC «Power machines» branch «Elektrosila» Saint-Petersburg, UETM, ABB Switzerland, General Electric.

### Executed Projects:

- Tumenskaia TPP-2.

Reconstruction of excitation system of turbo generator №4. Generator 220 megawatts. Self-excitation system. The rated DC current 2015 amperes. Commissioning engineer.

- Kirishskaia GRES

Service of excitation system of turbo generator №61. Generator 300 megawatts. Self-excitation system. The rated DC current 2900 amperes. Chief engineer.

- Surgutskaia GRES-2.

Service of excitation system of turbo generator №7,8. Generator 400 megawatts. Self-excitation system. The rated DC current 2350 amperes. Commissioning engineer.

- Reftinskaya GRES

Reconstruction of excitation system of turbo generator №5. Generator 300 megawatts. Self-excitation system. The rated DC current 3150 amperes. Commissioning engineer.

Reconstruction of excitation system of turbo generator №7. Generator 500 megawatts. Self-excitation system. The rated DC current 3800 amperes. Commissioning engineer.

Service of excitation system of turbo generator №8, 9, 10. Generator 500 megawatts. Self-excitation system. The rated DC current 5600 amperes. Commissioning engineer.

Service of excitation system of turbo generator №6. Analog regulator (ARV-SDP). Generator 300 megawatts. Self-excitation system. The rated DC current 3150 amperes. Commissioning engineer.

- Permskaya GRES

Reconstruction of excitation system of turbo generator №1,2. Generator 800 megawatts. System of independent excitation. The rated DC current 5650 amperes. Commissioning engineer.

- Nizneartovskaya GRES

Service of excitation system of turbo generator №1,2. Generator 800 megawatts. System of independent excitation. The rated DC current 3850 amperes. Commissioning engineer.

- Zagorskaya Pumped storage station

Reconstruction and service of excitation system of hydra unit №1,2,3,5,6. Generator - Motor 220 megawatts. Self-excitation system. The rated DC current 1500 amperes. Test, troubleshooting and commissioning.

- Kamskaya HPP

Reconstruction of excitation system of hydra unit №5. Generator 24 megawatts. Self-excitation system. The rated DC current 1060 amperes. Commissioning engineer.

Service of excitation systems of hydra unit №3,5,16,18,21. Generator 24 megawatts. Self-excitation system. The rated DC current 1060 amperes. Commissioning engineer.

- Uglichskaia HPP

Reconstruction of excitation system of hydra unit №1. Generator 40 megawatts. Self-excitation system. The rated DC current 1200 amperes. Commissioning engineer.

- Nazarovskaya GRES

Reconstruction of excitation system of turbo generator №7. Generator 500 megawatts. System of independent excitation. The rated DC current 5650 amperes. Commissioning engineer.

Reconstruction of excitation system of turbo generator №1. Generator 160 megawatts. Self-excitation system. The rated DC current 2200 amperes. Commissioning engineer.

- Astrahanskaya TPP-2

Service of excitation system of turbo generator №4. Analog regulator (ARV-SDP). Generator 137 megawatts. Self-excitation system. The rated DC current 1740 amperes. Commissioning engineer.

- Bangladesh. Ghorasal TPP.

Reconstruction of excitation system of turbo generator №5. Generator 220 megawatts. Self-excitation system. The rated DC current 1950 amperes. Commissioning engineer.

- Nevinomisskaya GRES

Reconstruction of excitation system of turbo generator №14. Generator 135 megawatts. Brushless excitation system. The rated DC current 15 amperes. Commissioning engineer

- **2017 to present**

"ABB" Ltd. (RUABB). Service engineer (Certificate UNITROL expert).  
Department of Process Automation, Energy Generation division.

**Responsibilities:**

- Test and commissioning of excitation system.
- Customer service and support
- Correction of project documentation
- Installation supervision.
- Troubleshooting

**Executed Projects:**

- Troitskaya GRES.

Modernization of excitation system Unitrol5000 to Unitrol6000 (Control Upgrade).  
Turbo generator №10 (600MW).

- Azerbaijan. Shimal ES (Severnaya TPP).

Modernization of excitation system Unitrol5000 to Unitrol6000 (Control Upgrade).  
Turbo generator №1 (403MW).

- **Mongolia.** Ulan-Bator TPP-4.

Commissioning of excitation systems of turbo-generators №2,3. Generators 125 megawatts.

- Mondi TPP.

Commissioning of excitation system of turbo-generator №6Y. Generator 100 megawatts.

- **Mongolia.** Ulan-Bator TPP-4.

ASM modernization of excitation system of turbo-generator №7. Generator 125 megawatts.

- Vladimirskaya TPP-2.

ASM modernization of excitation system of turbo-generator №1. Generator 100 megawatts.

- Kazanskaya TPP-1.

Commissioning of excitation systems of turbo-generators №9,11. Generators 58 megawatts.

- Kirovskaya TPP-4.

Maintenance of excitation systems of turbo-generators №2,6. Generators 100 megawatts.

- **Belarus.** Minskaya TPP-3.

Maintenance and troubleshooting of excitation system of turbo-generator №1. Generator 200 megawatts.

- **Belarus.** Borisovskaya TPP.

Maintenance and troubleshooting of excitation system of turbo-generator №2. Generator 20 megawatts.

- Boguchanskaya HPP.

Maintenance and troubleshooting of excitation systems of hydro generator №6. Generator 300 megawatts.

- Aleksinskaya TPP.

Maintenance and troubleshooting of excitation system of turbo-generator №7. Generator 40 megawatts.

- Novocherkasskaya GRES.

Maintenance of excitation systems of turbo generators №7,9. Generators 300 megawatts.

- Svetlinskaya HPP.

PSS enabling on excitation systems of hydro generators 2,3.

- Zelenchukskaya HPP.

PSS enabling on excitation systems of hydro generators 1,2

- Novocheboksarskaya TPP-3.

Maintenance of excitation system of turbo-generator №7. Generator 120 megawatts.

- Ust-Ilimskaya TPP.

Maintenance of excitation systems of turbo generators №1,2,3,4,5. Generators 6 and 12 megawatts.

- Ufimskaya TPP-2.

Maintenance and troubleshooting of excitation system of turbo-generator №1. Generator 48 megawatts.

- **Pakistan.** Karachi. Bin-Kasim TPP.

Control Upgrade Synchrotact 4 to Synchrotact 5. 1st- on generator circuit line. 2nd - between lines.