

Supervision of installation and commissioning of the partial discharge measuring systems in Mes Sarcheshmeh complex

Group: Electrical machines

Project manager: Mehdi Aliahmadi

Employer: Mes sarcheshmeh complex

Project code: CEMCM01

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Abstract

As the contract of Mes sarcheshmeh complex with electrical service company, Moshanir, ended, the aforementioned project was suggested by NRI. In this project, it was decided that in addition to supervising the installation and commissioning of the partial discharge measuring systems, three times partial discharge measurement along with their interpretations and a comprehensive training course to be accomplished. During this contract, in addition to fulfillment of the installation of the partial discharge measuring systems on selective units, more than 150 measurements were accomplished on about 50 units during several missions. The results of the measurements were interpreted and the abstract report of each measurement along with a complete detailed report of all measurements were prepared for employer. Besides, a 5-day comprehensive training course was held in Mes Sarcheshmeh complex by some of the qualified engineers of electrical machines group of NRI. After ending the project, the employer asked for extending the contract by another measurement on all the selective units along with interpretation of their results. These measurement were accomplished in three stages and their interpretations were given to employer.



Abstract of results

- Documentation of the information concerning the installation considerations of the partial discharge equipments in mines with difficult conditions.
- Documentation of the results of the partial discharge measurements on about 50 motors and generators of different powers and in diverse operating conditions.

Project documents

- Information and technical specifications of about 50 electromotor and generator in Mes Sarcheshme complex
- A complete set of abstract reports of partial discharge measurements on motors and generators in Mes Sarcheshmeh complex.
- A complete detailed report of all partial discharge measurements performed in Mes Sarcheshmeh complex during this contract.