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IEEE Guide for the Transportation of Transformers and Reactors Rated 10 000 kVA or Higher

IEEE Power and Energy Society

Sponsored by the
Transformers Committee

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IEEE Guide for the Transportation of Transformers and Reactors Rated 10 000 kVA or Higher

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Abstract: Information for minimizing the risk of damage and delays during transportation of transformers and reactors rated 10 000 kVA or higher is provided in this guide.
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Introduction

This introduction is not part of IEEE Std C57.150-2012, IEEE Guide for the Transportation of Transformers and Reactors Rated 10 000 kVA or Higher.

This document is intended as a guide for the movement of power transformers and reactors via heavy-haul methods, with additional information on rigging of the equipment for loading and offloading procedures. It should be noted that the movement of a large piece of heavy equipment such as a power transformer or reactor is a demanding task that requires great care in planning and execution in order to safely and successfully move the equipment to its desired destination. Only persons or parties that are trained, skilled, and experienced with such work should plan this type of movement. Severe damage, injury, or worse can result if such moves are planned and/or executed by inexperienced or ill-equipped parties.

This document serves only as a guide for the end user to understand many of the considerations made and actions performed during the movement of power transformers and reactors via heavy-haul and rigging activities. The use of this guide will provide the user with a better appreciation and understanding of the requirements and considerations for moving power transformers and reactors. Therefore, with this understanding, the user will be better able to verify the movement of transformers and reactors are properly planned and executed, thereby minimizing risks associated with potentially improper planning or execution of the work by other parties.

Continuous attention, communication, and cooperation should be maintained between all involved parties during the planning and execution of large power equipment moves in order to better ensure the success of the move.

This guide was prepared by the Power Transformer Subcommittee of the IEEE Power and Energy Society.

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IEEE Guide for the Transportation of Transformers and Reactors Rated 10 000 kVA or Higher

1. Overview

1.1 Scope

This guide provides recommendations and considerations for the transportation of transformers and reactors rated 10 000 kVA or higher. It provides information for minimizing the risk of damage and delays in the moving of transformers and reactors regarding their design, shipment preparation, transportation, heavy-hauling, and arrival inspections.

1.2 Purpose

This guide is intended for the following purposes:

a) To provide a transportation methodology to help minimize the risk of damage and delays during the movement of transformers and reactors, and

b) To encourage the establishment of routine and accepted industry practices.