



IEEE Recommended Practice for Preparation of Equipment Specifications for Speed-Governing of Hydraulic Turbines Intended to Drive Electric Generators

IEEE Power Engineering Society

Sponsored by the
Energy Development and Power Generation Committee

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IEEE Recommended Practice for Preparation of Equipment Specifications for Speed-Governing of Hydraulic Turbines Intended to Drive Electric Generators

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**Energy Development and Power Generation Committee
of the
IEEE Power Engineering Society**

Approved 7 June 2007

IEEE-SA Standards Board

Abstract: This recommended practice is intended to assist users with the preparation of procurement specifications for electric-hydraulic speed governors.

Keywords: control, digital, governor, hydraulic, hydroelectric, speed, stability

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Introduction

This introduction is not part of IEEE Std 125-2007, IEEE Recommended Practice for Preparation of Equipment Specifications for Speed-Governing of Hydraulic Turbines Intended to Drive Electric Generators.

This recommended practice assists users with procurement specifications for turbine governing systems for hydroelectric generating units. It is recommended this document be used in conjunction with companion document IEEE Std 1207™.^a This recommended practice is designed to be a reference document for practicing engineers in the hydroelectric industry and offers guidance for what elements of a turbine governing system need to be specified.

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1. Overview

1.1 Scope

This document recommends performance characteristics and equipment for electric-hydraulic governors for all types of hydraulic turbines intended to drive electric generators of all sizes. This recommended practice is applicable to new governors and rehabilitation of existing governors.

1.2 Purpose

This recommended practice is intended to assist users with the preparation of procurement specifications for electric-hydraulic speed governors.

1.3 Disclaimer

This recommended practice is intended to help users develop the technical portion of procurement specifications for electric-hydraulic speed governors. It does not cover the commercial portion of the procurement specification. It does not cover governor equipment installation procedures.