

# P810

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**Submitter Email:** [lucas.kunz@voith.com](mailto:lucas.kunz@voith.com)

**Type of Project:** Modify Existing Approved PAR

**PAR Request Date:** 10-Mar-2011

**PAR Approval Date:** 17-May-2011

**PAR Expiration Date:** 31-Dec-2013

**Status:** Modification to a Previously Approved PAR for the Revision of a Standard

**Root PAR:** P810 **Approved on:** 07-Jun-2007

**Root Project:** 810-1987

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**1.1 Project Number:** P810

**1.2 Type of Document:** Standard

**1.3 Life Cycle:** Full Use

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**2.1 Title:** Standard for Hydraulic Turbine and Generator Shaft Couplings and Shaft Runout Tolerances

**Old Title:** Standard for Hydraulic Turbine and Generator Integrally Forged Shaft Couplings and Shaft Runout Tolerances

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**3.1 Working Group:** HPS - Hydraulic Turbine and Generator Integrally Forged Shaft and Shaft Runout Tolerances Working Group (PE/ED&PG/HPS - WG 810)

**Contact Information for Working Group Chair**

**Name:** Lucas Kunz

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**Phone:** 717 578 8423

**Contact Information for Working Group Vice-Chair**

None

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**3.2 Sponsoring Society and Committee:** IEEE Power and Energy Society/Energy Development & Power Generation (PE/ED&PG)

**Contact Information for Sponsor Chair**

**Name:** O Malik

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**4.1 Type of Ballot:** Individual

**4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot:** 03/2013

**4.3 Projected Completion Date for Submittal to RevCom:** 10/2013

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**5.1 Approximate number of people expected to be actively involved in the development of this project:** 12

**5.2 Scope:** This standard applies to the dimensions for all types of shaft couplings and shaft runout tolerances for hydraulic turbines and generators. Shafts and couplings included in this standard are used for both horizontal and vertical connections between generators and turbines in hydroelectric installations.

**Old Scope:** This standard applies to the dimensions of integrally forged shaft couplings and to the shaft runout tolerances. Shafts and couplings included in this standard are used for both horizontal and vertical connections between generators and turbines in hydroelectric installations.

**5.3 Is the completion of this standard dependent upon the completion of another standard:** No

**5.4 Purpose:** The purpose of this standard is to provide dimensions and tolerances for all types of shafts and couplings to ensure correct installation in

**Old Purpose:** This standard details dimensions of integrally flanged shafts and couplings, such as are used for the connection between the

hydroelectric applications.

generator and turbine in hydroelectric installations.

**5.5 Need for the Project:** The reason for this revision is to address significant technology changes impacting the manufacture and installation of generators and generator/motors for hydroelectric applications that have occurred since this standard was originally prepared. Standards contained in this document will be harmonized with current international practices.

**5.6 Stakeholders for the Standard:** The stakeholders for this project are owners, erectors, and suppliers of generators and generator/motors for hydroelectric applications.

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### Intellectual Property

**6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?:** No

**6.1.b. Is the Sponsor aware of possible registration activity related to this project?:** No

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**7.1 Are there other standards or projects with a similar scope?:** No

### 7.2 Joint Development

**Is it the intent to develop this document jointly with another organization?:** No

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**8.1 Additional Explanatory Notes (Item Number and Explanation):** The 1987 standard applied to "Integrally Forged Shaft Couplings". The consensus of the Working Group is that the scope of the standard should be revised to include fabricated and other types of shafts.