# P463

**Submitter Email:** draycrow@ieee.org  
**Type of Project:** Revision to IEEE Standard 463-2013  
**PAR Request Date:** 16-Sep-2017  
**PAR Approval Date:** 06-Dec-2017  
**PAR Expiration Date:** 31-Dec-2021  
**Status:** PAR for a Revision to an existing IEEE Standard  
**Root Project:** 463-2013

## 1. Project Details

### 1.1 Project Number: P463  
### 1.2 Type of Document: Standard  
### 1.3 Life Cycle: Full Use

## 2. Title

**Title:** Standard for Electrical Safety Practices in Electrolytic Cell Line Working Zones  
**Changes in title:** Standard for Electrical Safety Practices in Electrolytic Cell Line Working Zones

## 3. Working Group

**Working Group:** Working Group for Electrolytic Cell Line (IAS/PCI/463_WG)  
**Contact Information for Working Group Chair**  
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## 4. Sponsor Information

### 4.1 Type of Ballot: Individual  
### 4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 10/2019  
### 4.3 Projected Completion Date for Submittal to RevCom  
**Note:** Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.: 05/2020

## 5. Scope

**Approximate number of people expected to be actively involved in the development of this project:** 10  
**Scope:** This standard covers means of improved safeguarding of personnel while operating or maintaining equipment located in electrolytic cell line working zones. Included are related requirements for equipment and electrical conductor installations. The general types of electrolytic cells covered include, but are not limited to, the direct current (dc) cells used in the production of aluminum, cadmium, sodium chlorate, chlorine, copper, fluorine, hydrogen peroxide, magnesium, sodium and zinc.

This standard does not cover the following:  
- Any electrical equipment that is neither part of the electrolytic process equipment nor installed or used in the cell line working zone  
- Electroplating and anodizing facilities  
- AC cells or furnaces  
- Electrothermal process furnaces  
- Arc furnaces  
- Melting or heat treating facilities  
- Cells for hydrogen production  
- Cells used as a source of electric energy
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 methods for practical improved safeguarding of personnel operating or maintaining equipment in electrolytic cell line working zones from electrical hazards. The cell line working zone is defined in Clause 5.

This standard permits alternate methods such as establishing and maintaining safety procedures if they accomplish the same objectives.

5.5 Need for the Project: This standard is used by all of industry who operate DC cells in the production of aluminum, cadmium, chlorate, chlorine, fluorine, hydrogen peroxide, magnesium, sodium, and zinc. It is a design and operation guideline, which is used as a reference in NFPA 70E (Standard for Electrical Safety in the Workplace). OSHA does recognize 70E as a consensus standard, which allows the Electrolytic Cell industry to follow IEEE 463 guidelines.

5.6 Stakeholders for the Standard: Manufacturers who use electrolytic Cells in the manufacturing process

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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: The Working Group would like to modify some of the language so that the standard reflects what is in NFPA 70E article 310 on safety-related work practices for electrolytic cells. Also make other modifications as needed to Section 5 relating to improved safeguarding of personnel from hazards within the cell line working zone and Section 6 relating to cell line working zone installations.