Relay protection out of service for six months

Overview

This status means the production of the relays stops, software updates cease, and replacement parts are unavailable. Industry Leading Life Cycle Policy ABB's products are designed for continuous evolution. It is ABB's goal to protect our customers' investment beyond the. Their job is to detect faults and protect equipment from damage. Over time, both older electromechanical relays and newer solid-state or microprocessor-based relays can wear down or fail in ways that are specific to their design. This paper defines terms associated with the reliability of protective. The concept for this report came from the concern that many control relays have been in service for an extended period of time and an effective aging management program may not be in place for these relays. Our extensive life cycle services include training. These design changes brought about the need for more sophisticated electrical distribution protection, which coincided with the early generations of electronic protective relays, including the widely employed GE Multilin and ABB circuit shield relays.

Article Content

Jul 19, 2025

Life expectancy of microprocessor-based protective relays (IED)

Based on our failure rates, not many Alstom / Areva / GE Grid MiCOM relays will see their 20th birthdays without intervention. The best I can hope for is that a newer, more reliable product is

Dec 11, 2025

The Lifecycle of Protective Relays: Aging and

One of the most common causes of failure is the gradual drying out of electrolytic capacitors in the relay''s power supply. As these capacitors age, their

Apr 09, 2026

Replacing Aging Relays: Challenges and Keys to Success

Most relays installed in the 1990s and early 2000s have reached their end-of-life with manufacturers announcing they will no longer offer product

Oct 09, 2025

Introduction to Protective Relaying | Electric Power

Introduction to Protective Relaying What are Protective Relays, or Protection Relays? Protective relays are used in industrial power generation and supply

Jun 14, 2026

Protective Relays

Most of the relays in service on power system today operate on the principle of electromagnetic attraction or electromagnetic induction. Regardless of the principle involved, relays are generally

Mar 05, 2026

The Useful Life of Microprocessor-Based Relays: A Data-Driven

What is the useful life of a microprocessor-based protective relay? What replacement strategy should be adopted?

Jun 03, 2026

Plant Engineering: Control Relay Aging Management Guideline

Recognizing that control relay preventive maintenance practices vary across the industry, a collaborative approach was used to develop this guide, based on utility input on issues and analysis of industry

Jun 30, 2025

A Full Life Cycle Operation and Maintenance System for Relay

A Full Life Cycle Operation and Maintenance System for Relay Protection Devices Published in: 2023 8th Asia Conference on Power and Electrical Engineering (ACPEE)

Dec 27, 2025

RM11-16-000 Transmission Relay Loadability Reliability Standard

In the context of the proposed Reliability Standard, “loadability” refers to the ability of protective relays to refrain from operating under all permissible loading conditions on all applicable transmission lines

Mar 08, 2026

Supplementary Reference and FAQ

If I show the protective device out of service while it is being repaired, then can I add it back as a new protective device when it returns? If not, my relay testing history would show that I

Feb 06, 2026

The Lifespan of Relays: A Comprehensive Guide to Replacement

In such cases, replacing relays at regular intervals—such as every 1-3 years—regardless of their apparent condition can mitigate the risk of unexpected failures. Conclusion In conclusion, the

Sep 01, 2025

Step-by-Step Troubleshooting Guide | Delgado Relay Protection

Relay Troubleshooting: A Step-by-Step Guide Relay protection forms a critical part of electrical power network transmission and distribution systems. It safeguards the equipment from

Jun 07, 2026

The Useful Life of Microprocessor-Based Relays: A Data-Driven

Abstract—Confidence in microprocessor-based protective relays has steadily increased over the four decades since their invention. As the service life of these devices exceeds multiple decades,

Dec 20, 2025

Life cycle services for protection and control relays

By storing the protection settings and configuration files online through our cloud service, they can be easily restored in the event of malfunction, repair or replacement of the relay.

Oct 10, 2025

Essential Guide to Calibration of Protection Relays

Calibration of protection relays is critical to the reliability and safety of electrical power systems. This guide is designed to inform engineers, power

May 13, 2026

How to extend relay lifespan ?

Learn proven strategies to extend relay lifespan through proper selection, protection circuits, and maintenance. Maximize industrial automation reliability today.

Dec 25, 2025

PowerPoint Presentation

The customer identified the need to replace old relays to avoid unscheduled operation downtime due to aging equipment. Further, the customer had also identified a need for additional relay functions and

Jan 20, 2026

Understanding 2023 NFPA 70B

I. Overview In 2023, the National Fire Protection Association (NFPA) 70B will shift from a “Recommended Practice” to a “Standard” containing mandatory language for the development,

Jul 30, 2025

Life Cycle Considerations for Microprocessor Relays

Abstract With proper maintenance, users of older technology electromechanical (EM) relays have considered 50+ years as the normal life cycle for these devices. When applying microprocessor

Apr 22, 2026

Power System Protective Relays: Principles & Practices

Protective relays and devices have been developed over 100 years ago to provide “lastline”of defense for the electrical systems. They are intended to quickly identify a fault and isolate it so the balance of

May 15, 2026

Relay Lifespan: How Daily Operations and Maintenance

In this article, we''ll walk through the factors that influence relay lifespan, how different relay applications affect performance, and what you can do

Apr 08, 2026

Understanding Protective Relays in Power Systems

Protective relays are critical components in power systems, providing essential protection for various elements such as generator sets, outgoing feeder

Dec 08, 2025

Protective relay

Electromechanical protective relays at a hydroelectric generating plant. The relays are in round glass cases. The rectangular devices are test connection blocks,

Apr 11, 2026

The Lifecycle of Protective Relays: Aging and

A full visual, mechanical, and electrical test should be performed every 24 months for electromechanical and solid-state relays, and every 36

Oct 24, 2025

How often should relays be replaced?

Discover how often relays should be replaced, signs of failure, and tips for extending their lifespan with expert advice from Delcon.

Apr 13, 2026

Protective Relays: Function, Features & Operation

A protective relay is basically an electrical device that detects a fault in a power system and initiates the operation of the circuit breaker to isolate the defective section or component from

Jul 04, 2025

Relay Testing Standards | Delgado Relay Protection Reference

These reports are essential for assessing the relay''s performance, identifying potential issues, and documenting compliance with the standards. In practice, relay testing is a complex and

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