Our Features

✔ **Subscription based SaaS**

✔ **IEC Based**

✔ **Identical & Diverse instrument PFD/PFH**

✔ **Multiple TI & DC**

✔ **Cluster relationship**

✔ **Built in data**
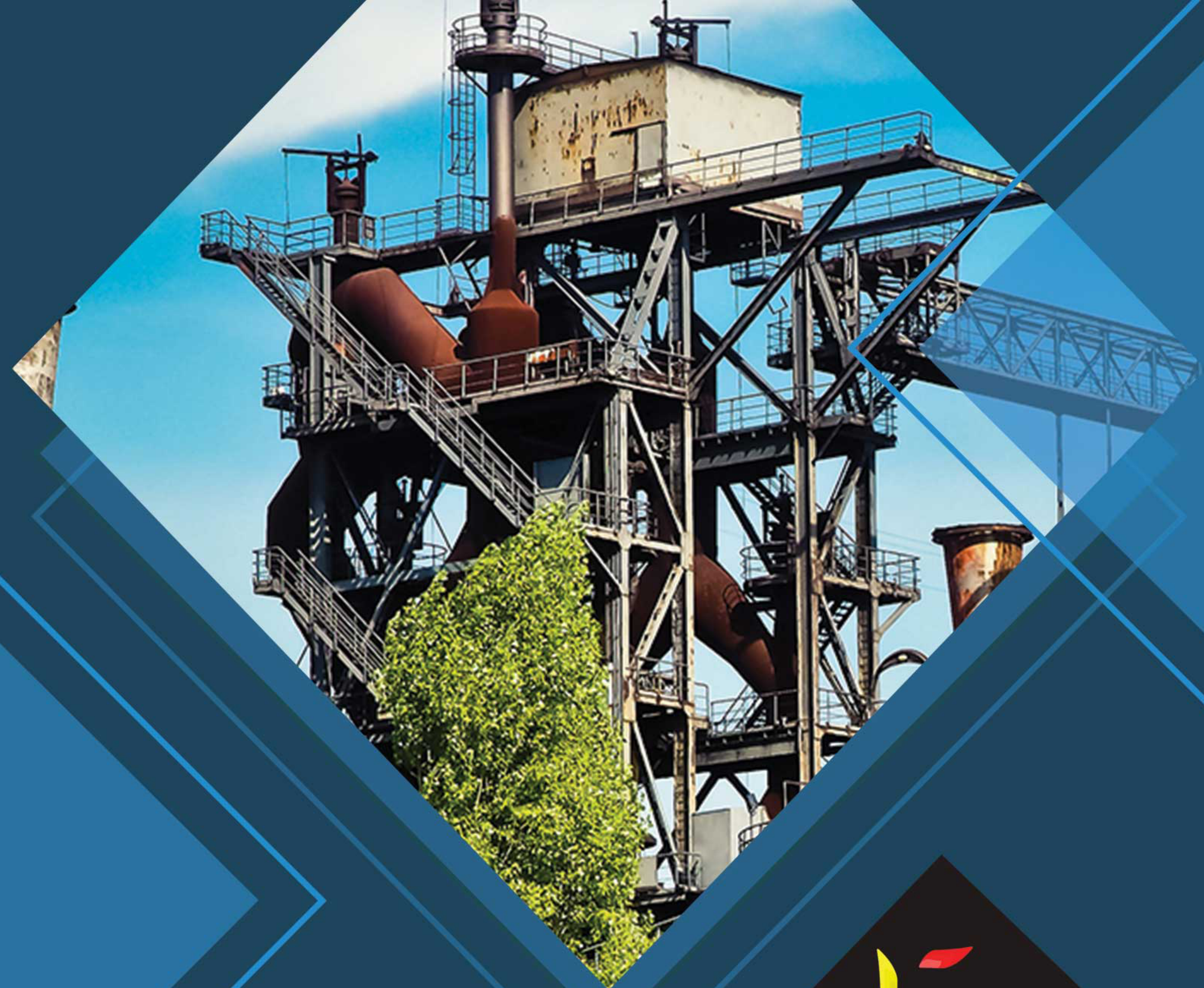
✔ **Overview & Detail report**

Contact Us

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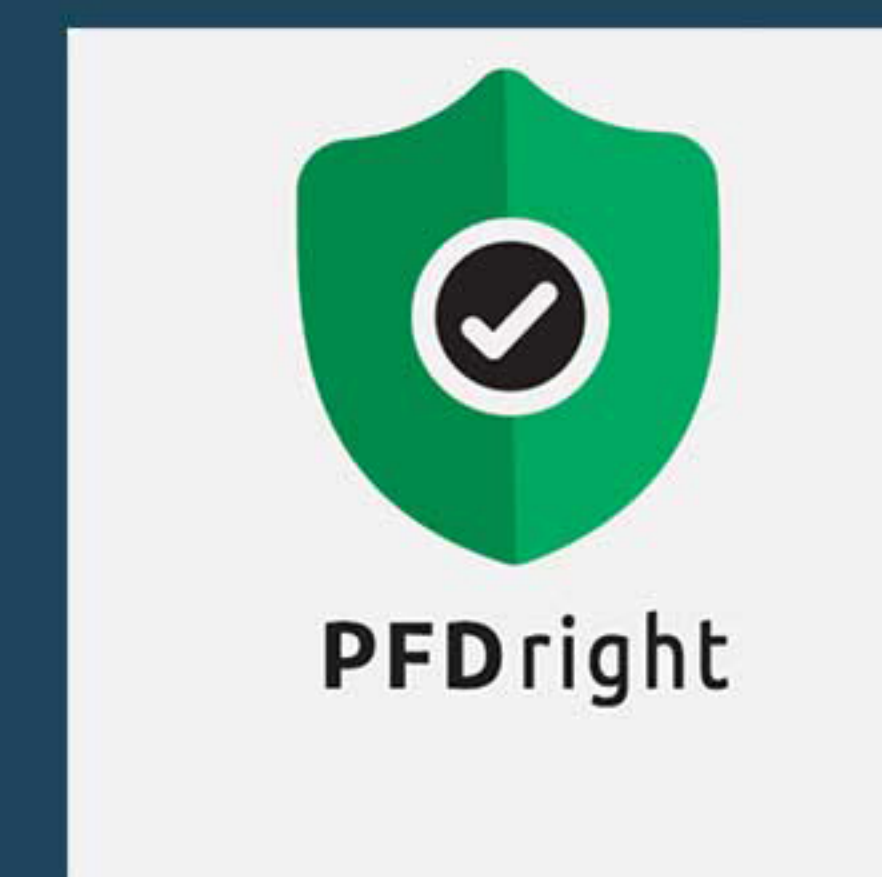
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R and R
Consultant

PFDright®

(Tool for right Probability of Failure calculation)

Overview

Functional Safety standards such as IEC 61508 and IEC 61511 are not prescriptive in nature. Compliance to them require proper tools and methods. Availability determination of the Safety Instrumented Function(SIF) to perform on demand, is the key to confirm the SIF provides the required level of risk reduction. This availability measurement metric is called Probability of Failure on Demand(PFD) (or) Probability of Failure per Hour(PFH).

PFDright® is a right tool to run these calculations and get correct results. The key is its simplicity and user friendliness. The right results are important for optimum design, operation and maintenance of Safety Instrumented Layer of Protection. The PFDright® program is hosted in cloud (delivered Software as a Service (SaaS)) for easy updates and help Client comply to latest requirements and enhanced features.

Requirements

PFD/PFH calculation has to be built from the tag level, using the field, and processing instrument failure rates. In practice these random failures are a data distribution and using a single failure rate value will be over simplification.

PFD/PFH is a quantitative data driven calculation and requires right failure input data.

PFD is an integration of failure with respect to time and PFDavg is the average value of this integration. Safety Instrumentation focusses on adding redundancy in order to achieve lesser probability of failure and in turn increase availability. One of the key focus in calculating failure probability in redundant systems is consideration of common cause failures.

Solution

PFDright® utilizes distributed data in its PFD determination and provides 70% single sided upper confidence limit on its calculations as required by IEC standards.

PFDright® comes with reliable built in data and has provision for Users to add their own, if required.

The PFD calculation in PFDright® are based on failure rate integration. The program duly considers common failures at tag as well as cluster levels.

PFDright® further addresses response time requirements and calculates the safe failure frequency of the SIF. The program provides a pie chart visual of Element level contributors for easy understanding of the major contributor for PFD and MTTFs(Mean Time to fail-Safe).

PFDright® provides easily readable reports and reports can be produced at any hierarchy level.

PFDright®

LEARN AND GET STARTED TODAY

PFDright® is designed for ease of use, consistency and accuracy. Whether you are:

- Looking for a PFD design product
- Already using one but looking for a better user friendly

Visit the product page at: https://www.gorandr.com/product/pfd-calculation/ to take a look and register in the site www.gorandr.com to have a feel.