



# Certificate / Certificat Zertifikat / 合格証

HON 1511043 C001

*exida* hereby confirms that the:

## **SLATE™ Burner Control System Honeywell Process Solutions Golden Valley, MN - USA**

Has been assessed per the relevant requirements of:

**IEC 61508 : 2010 Parts 1-7**

and meets requirements providing a level of integrity to:

**Systematic Capability: SC 3 (SIL 3 Capable)**

**Random Capability: Type B Element**

**SIL 3 @ HFT=0**

**PFD<sub>AVG</sub> and Architecture Constraints  
must be verified for each application**

### **Safety Function:**

The Burner Control module and Flame Amplifier modules are responsible to ensure that the events which make up a burner control operation cycle occur in the correct order and at the proper time. The Limit Control module continuously monitors an analog input signal to detect when an unsafe limit has been exceeded.

### **Application Restrictions:**

The unit must be properly designed into a Safety Instrumented Function per the Safety Manual requirements.



*John C Yozallinas*  
Evaluating Assessor

*[Signature]*  
Certifying Assessor

The manufacturer  
may use the mark:



Revision 1.2 December 22, 2017  
Surveillance Audit Due  
December 1, 2020



ANSI Accredited Program  
PRODUCT CERTIFICATION  
#1004

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**Random Capability: Type B Element**

**SIL 3 @ HFT=0**

**PFD<sub>AVG</sub> and Architecture Constraints  
must be verified for each application**

**SLATE™ Burner  
Control System**

**Systematic Capability:**

The product has met manufacturer design process requirements of Safety Integrity Level (SIL) 3. These are intended to achieve sufficient integrity against systematic errors of design by the manufacturer.

A Safety Instrumented Function (SIF) designed with this product must not be used at a SIL level higher than stated.

**Random Capability:**

The SIL limit imposed by the Architectural Constraints must be met for each element.

**For detailed information on failure rates of the Honeywell  
SLATE Burner Control System, see the *exida* exSILentia  
tool or contact the manufacturer.**

**SIL Verification:**

The Safety Integrity Level (SIL) of an entire Safety Instrumented Function (SIF) must be verified via a calculation of PFD<sub>avg</sub> considering redundant architectures, proof test interval, proof test effectiveness, any automatic diagnostics, average repair time and the specific failure rates of all products included in the SIF. Each element must be checked to assure compliance with minimum hardware fault tolerance (HFT) requirements.

The following documents are a mandatory part of certification:

**Assessment Report:** HON 15-11-043 R002 V1R1

**Safety Manual:** 32325298-001 R09 SLATE Safety Manual



80 N Main St  
Sellersville, PA 18960