

# ISO TC142-WG 9

Current ongoing program regarding ISO-29461



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# General

- Standards in industry have origin in different markets with different applications and different needs
- Although useful, currently used standards do not cover all aspects and needs of various applications used for rotary machinery
- The rotary machinery market is global and therefore a common international standard should be useful.



## *Liason*

- *Formal statement that there will be a co-operation between ISO TC142 (WG9) and ETN*
- *ETN may send one expert to join the WG-meetings and participate in the work*
- *A formal way for communication of the activities in WG9 and ETN*

## *Why an liason?*

- Get closer co-operation with endusers and system owners*
- Better adoption of standard to reality*
- Get broader perspective and insights about future needs*
- The liason between ISO TC142 and ETN is under formal voting*
- The ballot close February 15th*



## “Particulate Air Filters intake systems for rotary machinery” ISO29461 - standard

- The working group 9 (WG9) was created in 2006 under TC142.
- ISO/TC 142 : “CLEANING EQUIPMENT FOR AIR AND OTHER GASES”
  - WG3: ventilation
  - WG4: HEPA and ULPA
  - WG5: dust collectors
  - WG9: rotary machinery
- The objective is to create international air filter test (air cleaning systems) standard for Rotary machinery (ISO29461)

# ISO TC142-WG 9

The plan for ISO 29461 is today covering six (6) parts

1. Part 1: Static filter elements
2. Part 2: Cleanable (Pulse jet) filter systems
3. Part 3: Test methods for mechanical integrity of filter elements
4. Part 4: Test methods for in-situ testing of filter systems
5. Part 5: Marine and Offshore environment filter systems
6. Part 6: Cartridge testing method

# ISO TC142-WG 9

ISO 29461 -1, “Air intake filter systems for rotary machinery — Test methods — Part 1: Static filter elements”



The objective was to create a test method and classification system that would cover filtration from coarse filters (pre filters) up to higher filter qualities (H11/H12)

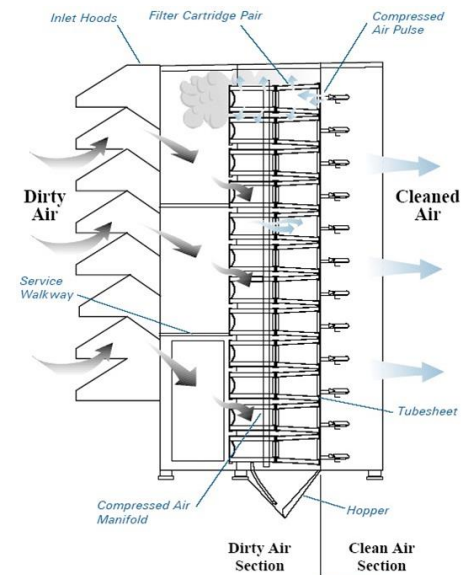
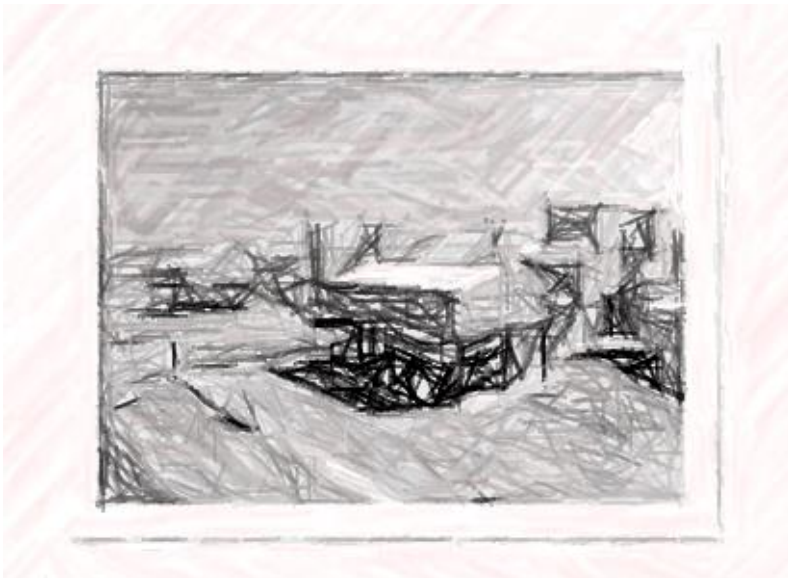
Idea to harmonize the test data within the set of standards (part 1 to 6) to be as comparable and logical as possible

The standard was published 2013



# ISO TC142-WG 9

## ISO 29461-2, Air intake filter systems for rotary machinery — Test methods — Part 2: Cleanable (pulse jet) filter systems



- A difficult task since not much data or experience available
- Re- activated project since late 2014
- In progress of writing first draft
- In parallell - some testing is commenced by one laboratory



*Active project*



## ISO/PWI 29461-3

# Air intake filter systems for rotary machinery - Part 3: Test methods for mechanical integrity of filter elements

Cancellation of the PWI (according to ISO)

Can be restarted when feasible



## ISO/PWI 29461-4

Air intake filter systems for rotary machinery - Part 4: Test methods for in-situ testing of filter systems

Cancellation of the PWI (according to ISO)

Can be restarted when feasible



## ISO/PWI 29461-5

Air intake filter systems for rotary machinery - Part 5: Test methods for static filter systems in marine and offshore environments

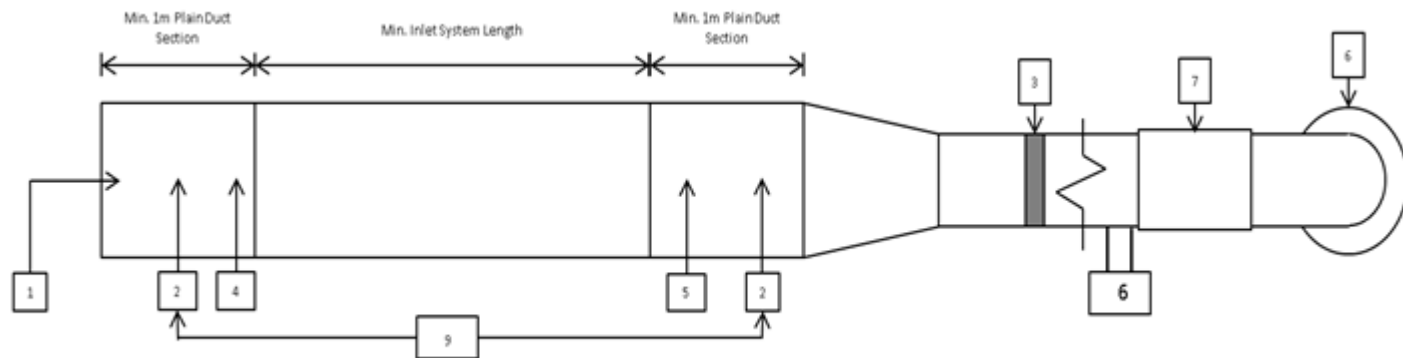
Task group formed and first draft is created

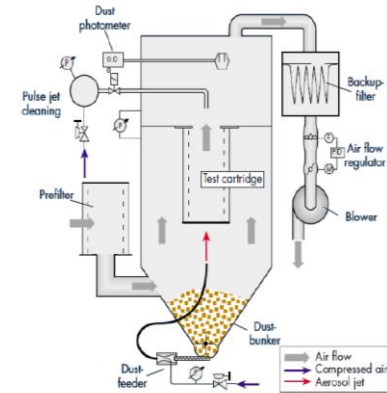


*Active project*

## Major work items to address in part 5

- Test duct requirements
- Test procedure





ISO/PWI 29461-6

## Air filter intake systems for rotary machinery – Test methods - Part 6: Cleanable (Pulse Jet) filter elements

First draft created



*Active project*

# Final comments

- A lot of ongoing projects in WG9
- A set of ISO standards ISO 29461 (part 1 to 6), dedicated to filters for rotary machinery where part 1 is ready.
- Wider scope for air filtration for rotary machinery in different environments using different applications
- A standard provides a solid base of performance comparison – real life will always be different
- Endusers and experts with different experiences from the business is important – Sharing experiences and feedback
- More experimental data and research is needed



## NEXT MEETINGS WG9

- ✓ ISO TC142-Pleanary 2015 - Japan
- Task group - Part 5 (to be set)
- WG9 (Power Gen 2015 - June)

Thank you for the attention



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