

Charter NAP SIG Process Safety - Proposal

Draft 20 May 2016

SPECIAL INTEREST GROUP - PROCESS SAFETY

“Our vision is Goal Zero for the Dutch Process Industry:
No leaks, no harm - protect people, assets, environment”



The Process Industry Competence Network

Code of Conduct for promoting Process Safety in the Dutch Process Industry

Purpose

The profile of the process industry in Dutch society is to a great extent determined by the risk management which the industry imposes on itself, along with its industrial partners and the public authorities. Hence, it is of paramount importance that all individuals involved, *in technical roles and non-technical roles*, are fully aware of their personal duties to support society.

To this end, Stichting NAP has prepared a Code of Conduct that can be endorsed *voluntarily and in a private capacity*. Stichting NAP encourages whoever is involved in the Dutch process industry to adhere this Code of Conduct.

Desired ethical behaviour

- As a process industry *professional*, process safety and technical integrity are integrated parts of my work ethics and duty to provide advice.
- My personal integrity and responsibility for our society are beyond any personal gain or career interests:
- I will respect the standards and values of my profession in terms of the process safety and technical integrity of the process facilities, and I will remain informed about any relevant knowledge.
- If in doubt about the application of the regulations, guidelines, design rules or the operation, inspection and maintenance procedures, I will seek advice from the authorised persons.
- In the event of deviations from legislation, regulations, standards or procedures, I will report matters to the authorised company representatives, and possibly escalate the matter.

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Version September 2, 2013

- I will give serious thought to any impact on the process safety and integrity of the process facilities when making decisions.
- I will not give employees instructions that are inconsistent with the legal provisions or which might put the safety at risk.
- I will address my colleague managers, including those in non-technical functions, about their responsibilities in terms of safety.
- I will address any concerns regarding the process safety of our facilities with priority, without repercussions for those who raise these concerns.
- I will make best efforts to make sure that the internal and external relief agencies (e.g. fire fighters) can control calamities together that might have been caused by our operations, through practice and by providing the appropriate devices thereto.

"As a representative of an external supervisory body, I monitor on behalf of society the process safety and technical integrity of process facilities to the best of my knowledge and ability."

- It is my duty to proactively test and report the risk management procedures and measures of the process industry.
- I will actively share knowledge within the process industry on how it can give substance to the purpose of the law in a practical manner.

(place, date, name, signature)

Version September 2, 2013

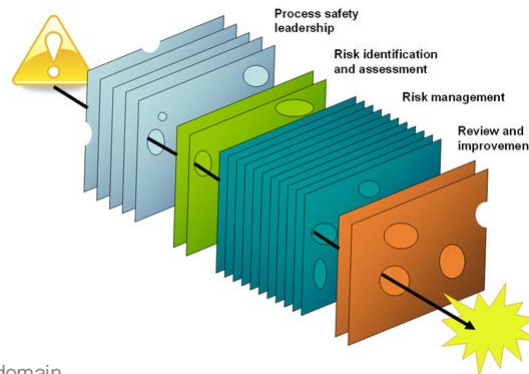


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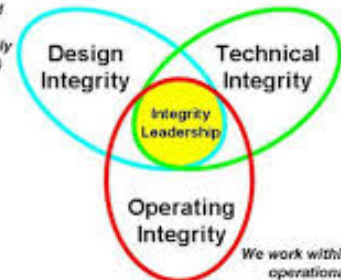
Mission

NAP has the ambition to embed across the membership a zero tolerance culture towards process safety risk by:

- Driving focus on the desired process safety leadership behaviors to avoid all incidents, specially catastrophic and major incidents;
- Recognised experts to collect, consolidate and share best practices to reduce risk of a process safety ‘top event’ to ALARP (‘as low as reasonably practical’).



We design and build so that risks are As Low As Reasonably Practicable (ALARP)



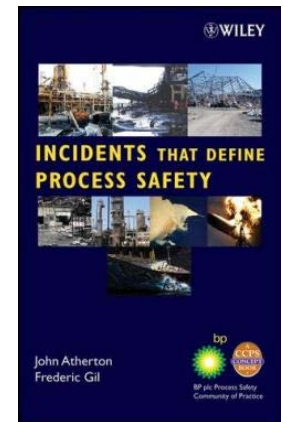
We maintain the hardware barriers

We work within the operational barriers

Goals and Objectives

NAP will support Process Safety in the Dutch Process Industry through:

- Promotion of Visible Process Safety Leadership, e.g. with the NAP Process Safety Code of Conduct, Peer Leaders assisting in process safety rounds at members' sites and offices (“Partnerschap”);
- Encouragement of honest self-assessments and an open dialogue in a protected environment amongst peers on common challenges;
- Focus of its members on fast implementation of available good practices which address both sides of the ‘bow-tie’: prevention and response readiness;
- Connectivity between all parts of the NAP knowledge network with impact on Process Safety (competence in design, maintenance, operations, inspection, audit);
- Being a platform that connects NAP with other industrial bodies, institutions and networks with a Process Safety interest (e.g. VNCI Veiligheid Voorop, KIVI, Deltalinqs, Master Classes Veiligheid ZO & ZW, Aviation, ECN Petten).



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Program

- Initial identification and sharing of implementation practices for Technical Integrity (maintenance & inspection) and Operational Integrity; Design Integrity to follow.
- Organizing of Master Classes to enable e.g. effective learning from (prevention of) incidents;
- Association with a few and relevant external events e.g. PScongres;
- Continuous improvement / updating of (web based) NAP recommended practices;
- Meeting core team 6 times per year.



Note: Out of scope are:

NAP will not write, own, issue or recommend industry standards or procedures;

SIG members do not participate in incident investigations under NAP banner.

Organization and Communication

- The SIG program is coordinated by Tijs Koerts as Chair, supported by the Vice-chair Ton Jansen (Jacobs). Support functions such as facilitator, external members, graduate students, will be established on an as-needed basis.
- Team set-up: core 15 members with additional contributors as and when needed.
- Meetings: preferably Owners' locations or by tele/video conferencing.
- Conclusions, best practices and actions will be recorded at each meeting.
- Progress of SIG activities will be reported to the NAP Production Assets team.
- Bureau NAP will provide support on as needed basis.



SIG member profile

- We are looking for seasoned professionals of suitable seniority with a track record in applying process safety principles and practices in design, inspection, maintenance and/or operations in the process industry.
- Participation is open to engineers, specialists, consultants of all NAP members. (Note: non-members can attend as invitees, however they will be asked to become member of NAP)
- In return, the SIG offers unique exposure to similarly minded and motivated peers from other parts of the NAP membership base to gain new and different insights in process safety aspects.



Potential practical discussion subjects (“speerpunten”)

- **Common risk matrix:** why is there no standard risk matrix or guidance on acceptable risk levels. Each company is setting their own criteria that have no fundamental basis. Discussion with local inspectors on fundamental protection levels for employees have no good references.
- **Useful leading process safety indicators:** if you want to improve you need to measure. What is of interest to measure to improve process safety in an effective manner.
- **MOC best practices:** Management of Change is often the cause of an incident, the key principles are not broadly understood.
- **Suitable methods for incident investigation:** many different tools are available, what is useful to learn in an effective manner from industrial incidents.
- **Risk Analysis aspects:** Failure Rates, Barrier Thinking, Improving HAZOP’s.
- **Competency of people:** what knowledge, skills, beliefs and behaviours are necessary and how do we create or validate these.
- **Pre Start-up Safety Review:** many incidents happen just after a turn-around or during start-up of new equipment. What is essential for a flawless start-up.

Potential practical discussion subjects (Topics from brainstorm)

- Leadership
- Risk Analysis and smart Process Hazard Analysis (PHA's)
- 'Competentie in alle rollen'
- Responsibilities throughout the value-chain.
- 'Netwerken & verknopingen'
- Lessons learned
- Process Safety in Design/Project