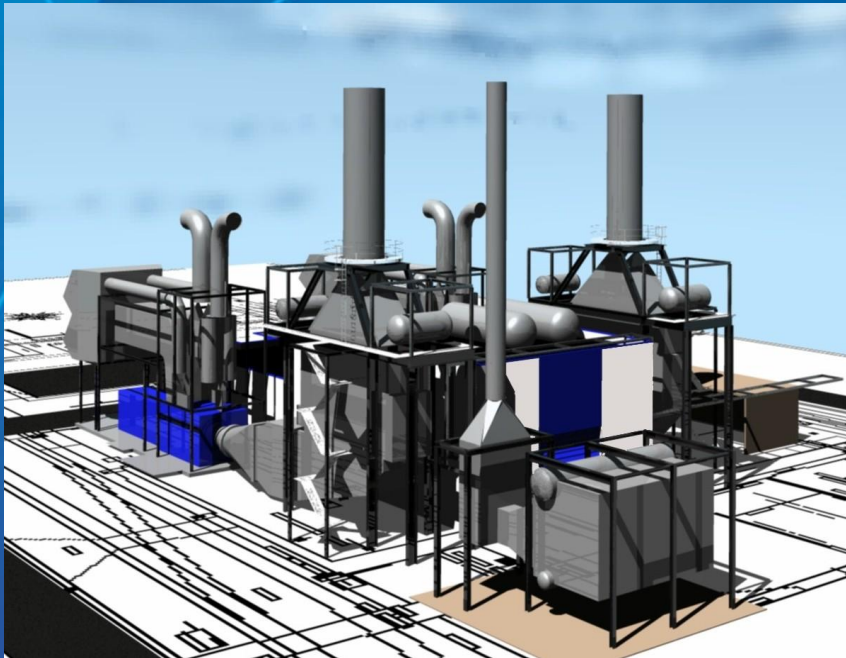
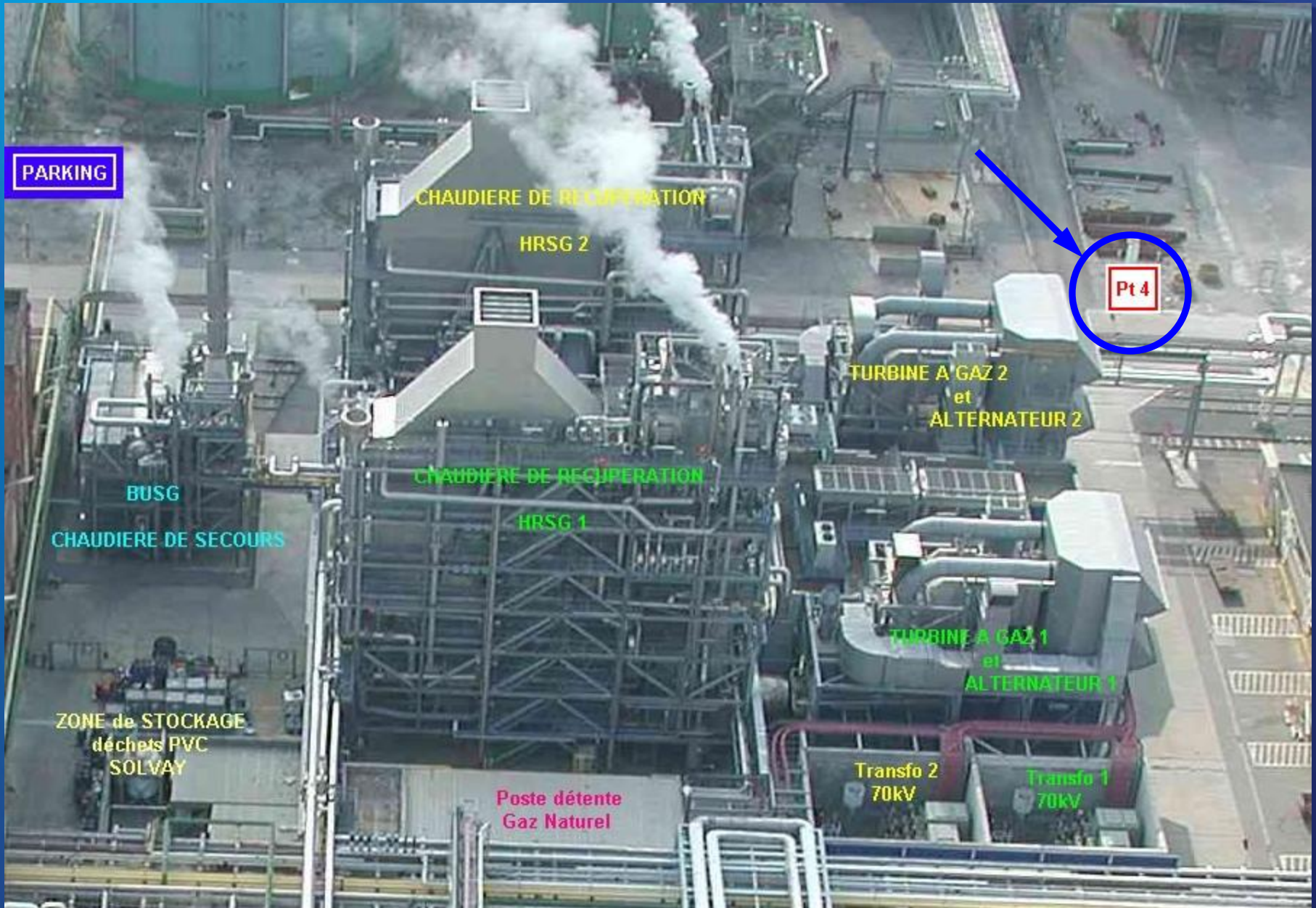


Safety check: Jemeppe cogeneration plant (SOLVAY site)



Electrabel 



General information and documents



Before starting work:

- Compile a SHEP including a suitable risk analysis
- Open the site
- Get work permit (+ hot work permit, excavation permit, etc.)
- Carry out an LMRA

Before leaving the site once work is complete:

- Close the site

The SHEP must contain the following as a minimum:

Company information (e.g. health and safety advisor, team leader, phone number, FR, SR)

Description of the work

Methodology

Risks associated with this work, planned safety measures

List of workers, including temporary workers and their qualifications (e.g. bridge crane operators, forklift truck operators)

List of tools and certificates of conformity

List of hazardous products and health and safety sheets

The SHEP must be submitted at least 15 days before work begins

LMRA (Last-Minute Risk Analysis)

- ❑ The LMRA must be signed by all workers to confirm that they have read and understood it.
- ❑ You may perform your own LMRA but you must also sign EBL's LMRA.
- ❑ MCC may use its own document.
- ❑ An LMRA must be performed at least once at the beginning of the work and every time conditions change (e.g. in the environment, co-activity, personnel).
- ❑ Schedule regular LMRAs for long-term work.



General hygiene and safety rules

General rules



- Drugs and alcohol are not permitted on any site.
- For hygiene reasons, do not eat within the facilities.
- Check that your clothing cannot contaminate the ambient air in the room provided (e.g. dust, odours).

General rules

The following **MUST** be worn in all technical facilities:

- safety helmet;
- safety footwear;
- work clothes;
- safety goggles.



Depending on the risk analysis, some additional PPE may be necessary.



General rules



Smoking is only permitted in the site's designated smoking areas.

+ (SOLVAY and EBL requirement): use ashtrays



You must not use your mobile phone in any room marked with this pictogram.

General rules

- Only qualified personnel may operate bridge cranes and forklift trucks.



- Scaffolding should only be accessed by trained workers if the stabiliser plate is present.



- Work at height (above 2 m) requires a harness (if there is no scaffolding)



General rules

Signposting working areas

Always **MARK OUT** or **INDICATE** dangerous areas! Choose the best signage for the situation (e.g. mobile phone).





General rules

Cleanliness and tidiness

- Corridors, entrances, exits and access to fire-fighting equipment must remain clear!
- Clean the work site once work has been completed!!!



Accident – Fire – Incident – Dangerous situation

Accident - Fire - Injury

Notify your line manager and Electrabel of all accidents

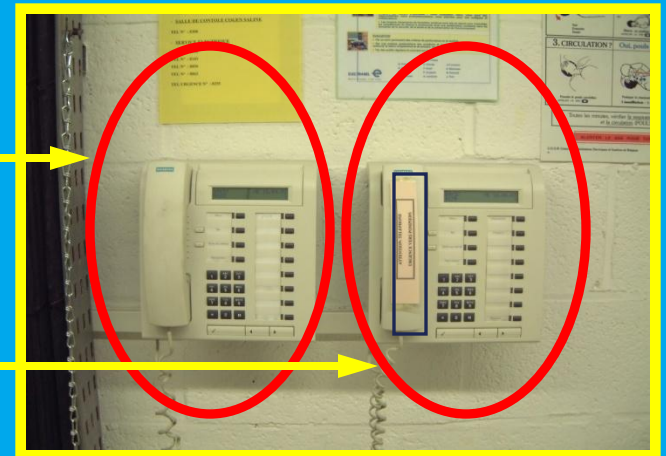
In the event of a serious injury or fire:

- Ring 📞 = **888** or 071268888 (SOLVAY); **do not ring 4444**
= Amercoeur first-aid service
- Please note that there are different telephone networks.

- **ELECTRABEL**: black phones in the offices

- SOLVAY

- SOLVAY fire department



- First-aid kit located in the EBL office



Accident - Fire - Injury

Instructions in the event of a fire

- Never throw water on electrical circuits.
- Fire doors must always be kept closed.
- Fire hoses must only be used to fight fires.
- Work with naked flames or work that produces heat requires a hot work permit.



Work permit

LOTO –

Mandatory document



- YOU ARE NOT PERMITTED TO WORK WITHOUT THIS PERMIT
- Unauthorised access to electrical rooms **IS NOT PERMITTED**
- Request a work permit before beginning work

WERKTOELATING **ELECTRABEL**

WT: 9751 pagina

Diract. PL: Afspraak: Datum:
Van: t/m: code: P/W code: P

omschrijving werk:

Minder consistentie van verwerking op:

Speciale schakelingen:

RI	Rekening	Staat	Code	Kaart	Waa

Line:

Klaar	Text 1		Text 2		Text 3		Omschrijving werk		
	Begin	Ende	Begin	Ende	Begin	Ende	1	2	3

Werkzaamheid: Rekening verlaten: Einde gereedschap:

Operator



Hazard areas

Hazard areas:

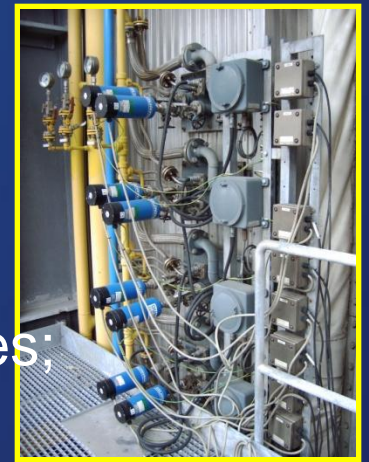
Natural gas facilities



- Gas substation
- Gas turbine
- Burners
- Supply network
- Back-up boiler

During work on a gas facility:

1. use antistatic, anti-explosion tools;
2. use anti-explosion 24-volt lighting;
3. ensure that circuits are free from dangerous gases;
4. use a gas detector;
5. ensure that a sufficient number of extinguishers are to hand.



Hazard areas:

Pressurised steam facilities and circuits

-Piping and insulated facilities

Risk of leaks

Risk of burns

-Release of safety valves

(steam + noise)



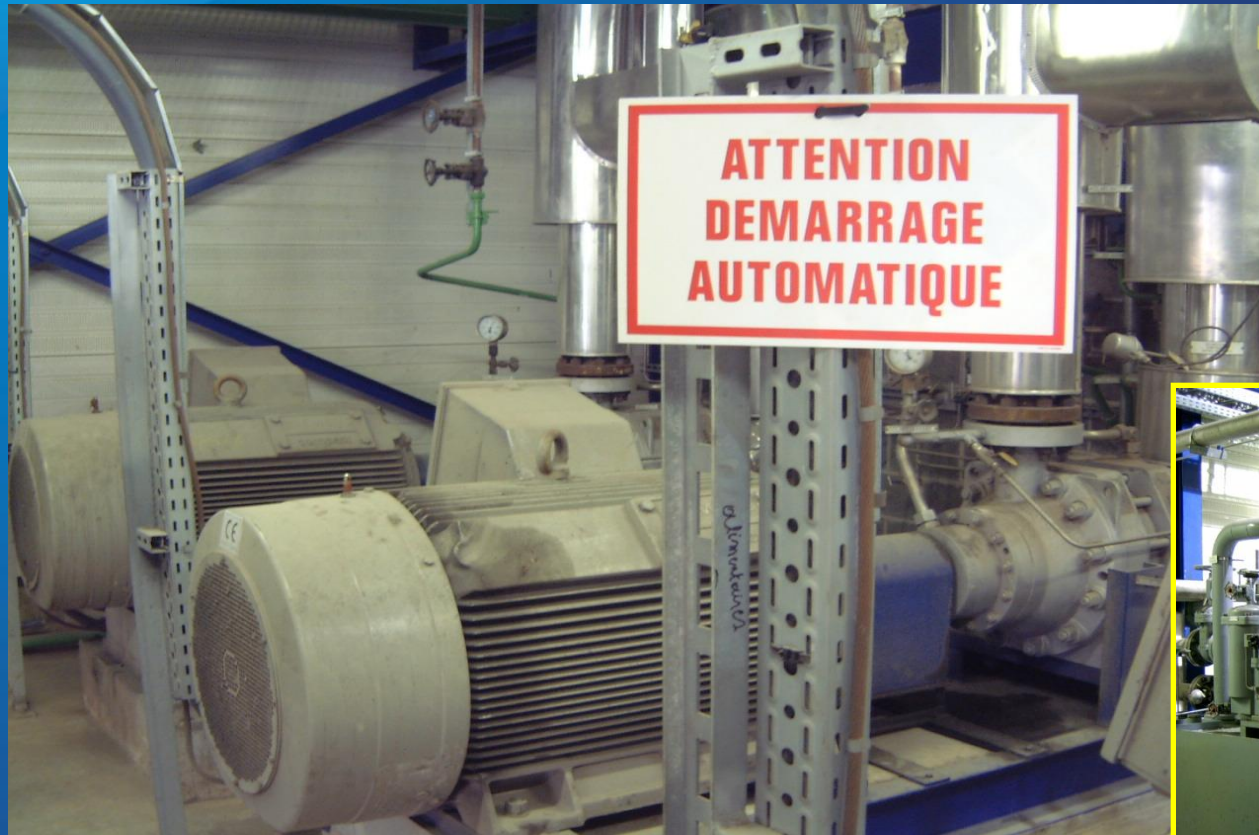
Hazard areas:

Electrical facilities

- **Various voltages used:**
 - From 24 V to 70,000 V
- **Type of risk:**
 - Short circuit
 - Fire
 - Shutdown of part of the facility
 - Electrocution through contact (injury)
 - Electrocution through sparkover (lesion + burns caused by the arc)
 - Burns (battery acid)



Automatic machine start-up



Parts of the facility start up without
warning

Hazard areas:

Turbine/generator set



Area with highly pressurised oil



- Access is not permitted
- Automatic fire protection



Hazardous products

Signage and information

- *Be aware of the dangers and the precautions required for the products you use!*
- *Every container housing a product must be correctly labelled.*
- *Products brought onto the site must always be accompanied by a safety sheet.*
- *Always use a doubly-insulated container or a holding tank.*



Hazardous products

Chemical products



If such products come into contact with your body:

- 1) Use diphoterine-based products:
 - DAP (green extinguishers);
 - mini or micro DAP (spray);
 - L.I.S. (eye wash).
- 2) Wash yourself in the safety shower (water)
- 3) Notify your line manager and EBL





Trains moving throughout
the site



Environment

Environment

Sorting waste

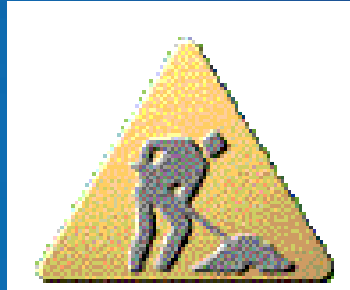


- **Green bins:**
general and office waste
- **Metal bins:**
cardboard
- **Blue bins**
glass

Environment

In the event of environmental pollution

- Confine the polluted area (absorbent material)
- Notify the ELECTRABEL officer
- Signpost the area (depending on the severity of the pollution)



Safety pictograms

Safety pictograms

Toxic and hazardous products



Oxidizing



Explosive



Harmful or
irritant



Dangerous
for the
environment



Toxic



Flammable



Corrosive



Safety pictograms

Warning

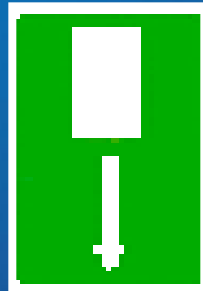
Yellow triangle with a black border



General danger

Safety

Green with a white image



Location of an emergency exit

Prohibited

White circle with a red border



Unauthorised entry not permitted

Requirement

Blue circle with a white image



Mandatory head protection

**We hope you enjoy working at our
facilities**

Electrabel 

*Jemeppe cogeneration site
(SOLVAY site)*