

Creating a Sustainable **ADVANTAGE**

Information to: File a Permit Application

Presented by:



Klean Industries
Renewable energy, resource recovery & recycling

Application

- Information about applicant,
- Plant capacity,
- Investments costs, building costs,

Plant site & surroundings

- Plant site (commune, field name, field number),
- Required area,
- Map of real estate with registration of the planning development and the building borders,
- Layout plan,

Plant, process & operations description (1)

- Plant construction,
- Connection with the infrastructure, access, streets,
- Energy supply and supply with operation means,
- Logistics (in- and output materials),
- Time of operation, plant performance,
- Description of processing mode (normal state, start up und scanning process, stoppage),
- Process flow diagrams,
- Installations design,

Plant, process & operations description (2)

- Technological and operating parameters of the most important devices (amount, temperature, pressure, throughput),
- Information of devices with water pollutions substances (storages, filling plants, operating plants), amount of water pollutions substances, construction of these plants, retention basis for water pollutions substances and water for fire protection,

Substances

- Information about all of used substances in the plant (substances and safety specifications),
- Material balance (t/h, t/a) al of used substances (raw materials, fuels, auxiliary materials) as well as waste material(s) and wastewater and their analysis.

Air pollution control

- Environmental emission (normal state, start up und scanning process, stoppage),
- Information about emission sources, emission concentrations and emission quantity,
- Information about odorous substances,
- Information about designed purification units.

Noise protection

- Noise levels of all noisy devices,
- Information about the plant traffic.

Public safety (1)

- Devices included dangerous substances (kind and amount of substances),
- Information about explosive ranges,
- Information about safety measures against explosions (for instance safety measurements, equipment of fire and explosion protection, detectors, protective measures) and devices to guarantee the safety of operation.

Public safety (2)

- Information about potential safety hazards in the process, the designed measures against and information about the effects of stoppages.

Industrial safety

- Number of personnel (maximum in the plant),
- Information about designed social buildings, rooms and services,
- Room temperatures and ventilation systems,
- Lighting systems and safety lighting systems,
- Doors and so on.

Fire protection

- Draft of fire protection (architectural and process fire protection), equipment for fire protection and retention basis for water for fire protection.

Waste materials

- Information about waste materials (kind(s), amount(s) / volume(s) and disposal).

Water & wastewater

- Information about amount and quality of waste water (process waste water, sanitary water, rain water),
- Information about designed waste water purification units in the plant,
- Information about waste water draw off.

Building project

- General plan,
- Layout plan,
- Architect's drawing,
- Buildings Description.

(according to building regulations in EU regulations)

Permit application document

- General advice:
- Full technical information is demanded by authorities,
- However, it isn't necessary to send all information within the first set of initial permitting documents to the authorities,
- The permitting process is done in phased approach,
- The Klean Team has been successful in permitting a wide range of processing plants, we are experts at the permitting process and we are here to help.

Summary of Permitting Requirements

		Required (Y/N)	Typical Time Frame	Notes:
<i>Environmental Level</i>	<i>Emissions - Air Pollution</i>			
	<i>Emissions - Waste Water Treatment / Sewage</i>			
	<i>Land Impact</i>			
	<i>Input Storage & Processing</i>			
	<i>Output Storage</i>			
	<i>Emissions - Noise</i>			
	<i>Others</i>			
<i>Business Level</i>	<i>Building Permit</i>			
	<i>Electrical</i>			
	<i>Gas / Power</i>			
	<i>Fire & Rescue</i>			
	<i>Transportation related</i>			
	<i>Engineering Approval</i>			
	<i>Workers Comp / Coastal Health Approval</i>			
	<i>Others</i>			

Contact Information

Thank you

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