

General information regarding character of Serious Industrial Accident hazard including their potential impact on humans and environment

Facility	Source	Hazardous Substance	Hazard Characteristics	Basic Accident Scenario – Physical Exhibitions
CRM	RR cistern car 30 t	Ammonia	Ammonia Leak while siphoning RR cistern	immediate leak - toxic dispersion
				big continuous leak – toxic dispersion
CRM	warehouse 3x30t	Ammonia	Ammonia leak from storage tanks	immediate leak - toxic dispersion
				10 minute leak of the entire volume – toxic dispersion
Power Engineering	BF gas holder	BF gas	BF gas leak from BF gas holder	immediate leak of the entire gas holder volume – toxic dispersion
				10 minute leak of the entire volume – toxic dispersion
Steel shops	converter gas holder	converter gas	BOF gas leak from BOF gas holder	immediate leak of the entire volume – toxic dispersion
				10 minute leak of the entire gas holder volume – toxic dispersion
Power Engineering	section A2+C2+C3	BF gas	BF gas leak	continuous leak by rupture - toxic dispersion
				continuous leak by 10 percent opening from biggest diameter of the pipe – toxic dispersion
CRM - annealing	pipeline V9/2	Ammonia	Ammonia leak from pipeline	continuous leak by rupture - toxic dispersion.
				continuous leak by 10 percent opening from biggest diameter of the pipe – toxic dispersion
Power Engineering	Section F4	natural gas	Natl gas leak from pipeline	continuous leak by rupture
				continuous leak by 10 percent opening from biggest diameter of the pipe

BF gas

Impact on Humans

Extremely flammable gas. May cause or contribute to development of fire; oxidation agent. Toxic when inhaled. May cause dizziness or drowsiness. May damage fertility or damage unborn child. Causes damage of body organs.

Impact on Environment BF gas is toxic for fish.

BOF gas

Impact on Humans

Extremely flammable gas. May cause or contribute to development of fire; oxidation agent. Toxic when inhaled. May cause dizziness or drowsiness. May damage fertility or damage unborn child. Causes damage of body organs.

Impact on Environment BOF gas is toxic for fish.

Ammonia

Impact on Humans

Flammable. Toxic when inhaled. Contains gas under pressure, when heated may explode. Causes serious burns and eye damage. Very toxic for water organisms.

Impact on Environment

May change pH of water ecology systems. Very toxic for water organisms.

Natural gas

Impact on Humans

Does not possess toxic or poisonous characteristics. Under imperfect combustion may develop poisonous CO gas.

High concentration of natural gas replaces air Oxygen, while lack of Oxygen may cause sudden loss of consciousness and death. High concentrations of the gas or vapors may result in narcotic or anesthetic influence that may lead to undesirable impact of ones' judgement and lead to CNS depression.

Impact on Environment

Natural gas (methane) and its combustion products are Green House Gases.