

 Austin Powder Argentina S.A. División Petroquímica	ABATIMIENTO N2O INFORMATION REQUIRED			NACAG-ANEXO- 005
	Classification D	Review: 1 Date: 27/03/2025	Next review:- Date: -	Page 1 de 1

Minimun required information to be completed by the applicant	
1	Regarding the catalytic converterespecto al catalizador
1.1	Operating pressure [bar abs]
1.2	Design pressure [bar abs]
1.3	Minimum pressure [bar abs]
1.4	Maximum pressure [bar abs]
1.5	Equipment design temperature [°C]
1.6	Minimum catalyst reaction start temperature [°C]
1.7	Normal operating temperature [°C]
1.8	Maximum operating temperature [°C]
1.9	Minimum operating temperature [°C].
1.10	Design temperature [°C]
1.11	Δt (temperature difference) based on ppm NOx and N2O[°C]
1.12	Efficiency
1.13	Maximum O2 in tail gas stream [%].
1.14	Minimum O2 in tail gas stream [%].
1.15	Type of catalyst (whether pellet or modular or other)
1.16	Catalyst compound, chemical composition
1.17	Catalytic converter service life [years]
1.18	Years of expected catalyst life
1.19	Years of guaranteed catalyst life
1.20	Conversion and NOx content (Concentration) at the outlet of the abatement system guaranteed (at operating temp.)
1.21	Conversion and content (concentration) of N2O at the outlet of the abatement system guaranteed (at operating temp.)
1.22	If the catalyst is pellet type, indicate the maximum ΔP it can reach, without placing a filter [bar abs].
1.23	If the catalyst is pellet type, indicate the maximum ΔP at the beginning of the life of the catalyst. [bar abs].
1.24	If the catalyst is pellet type, indicate the maximum ΔP at the end of the catalyst life [bar abs].
1.25	ΔP (delta pressures) with filter (to retain particles before the expander) dirty [bar abs]. [bar abs]
1.26	ΔP (pressure delta) with filter (to retain particles before the expander) clean [bar abs]
1.27	All possible contaminants/poisons of the catalyst with the maximum permissible composition.
2	Equipment dimensions
2.1	Equipment length [m]
2.2	Equipment diameter [m]
2.3	Catalyst volume [m^3]
2.4	Weight of catalyst alone [m]
2.5	Total weight (catalyst + equipment) [kg]
2.6	ΔP (pressure delta) of the chiller/abator [bar abs]
2.7	Equipment Material/Metallurgy
3	Current specifications
3.1	Specify Type(s) or stream(s) feeding the reactor
3.2	Ammonia consumption
3.3	Natural gas consumption as a reacting agent
3.4	Natural gas consumption as fuel, for the supply of thermal energy for the increase of gas temperature
3.5	Temperature at expander inlet [°C]
3.6	Temperature at chiller inlet [°C]
4	Others
4.1	If you choose to use the mixer or in-line burner, specify the currents to be used and their consumptions.
4.2	ΔP (pressure delta) TOTAL with all equipment [bar abs]

Notes: It is possible to place ranges of operational variables. Please note that some items may not be completed for some contestants.