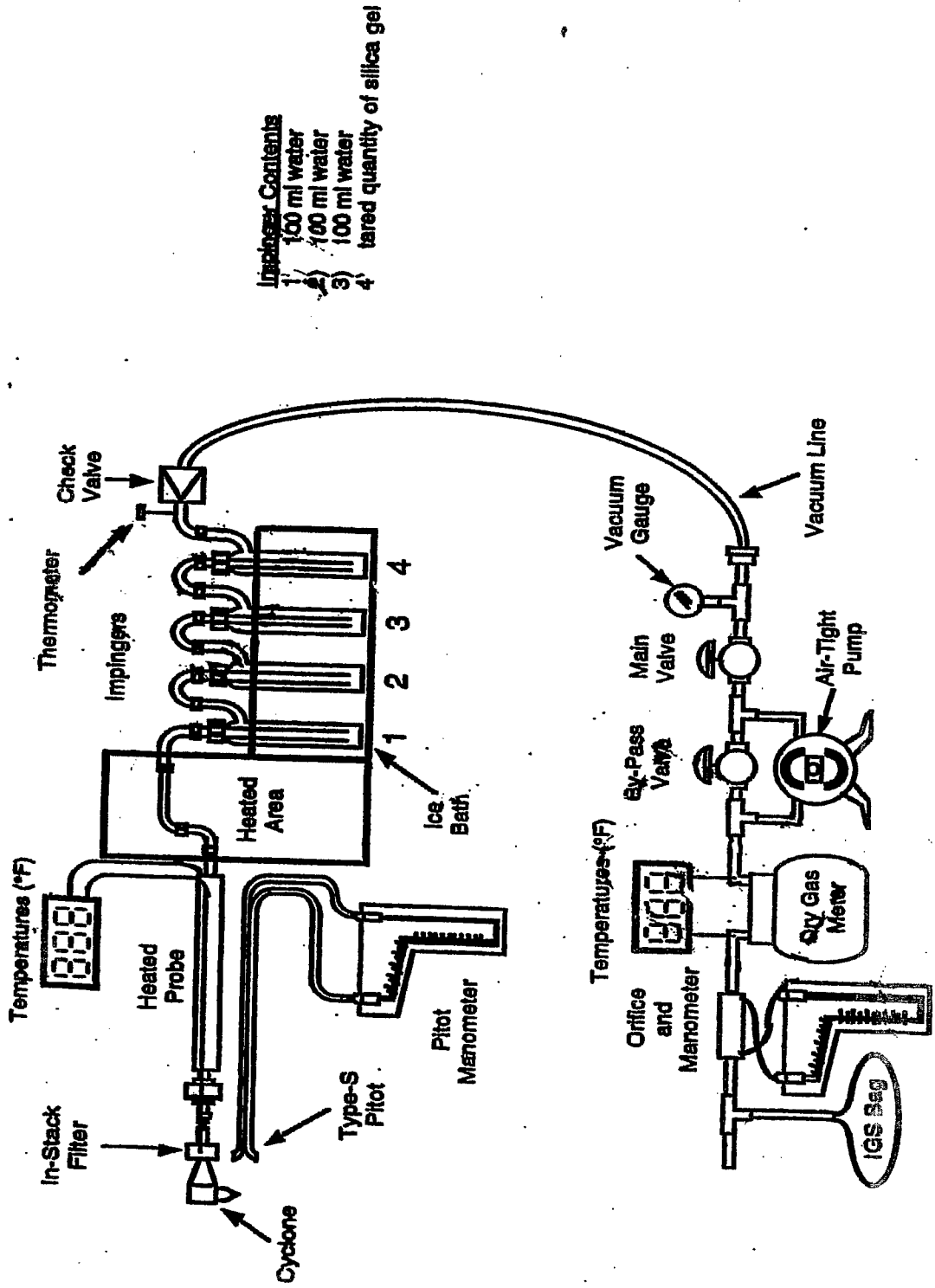


Particulate Emissions by Gas Turbine Combustion

Particulate Emissions by Gas Turbine Combustion : EPA 201a/202

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Particulate Emissions by Gas Turbine

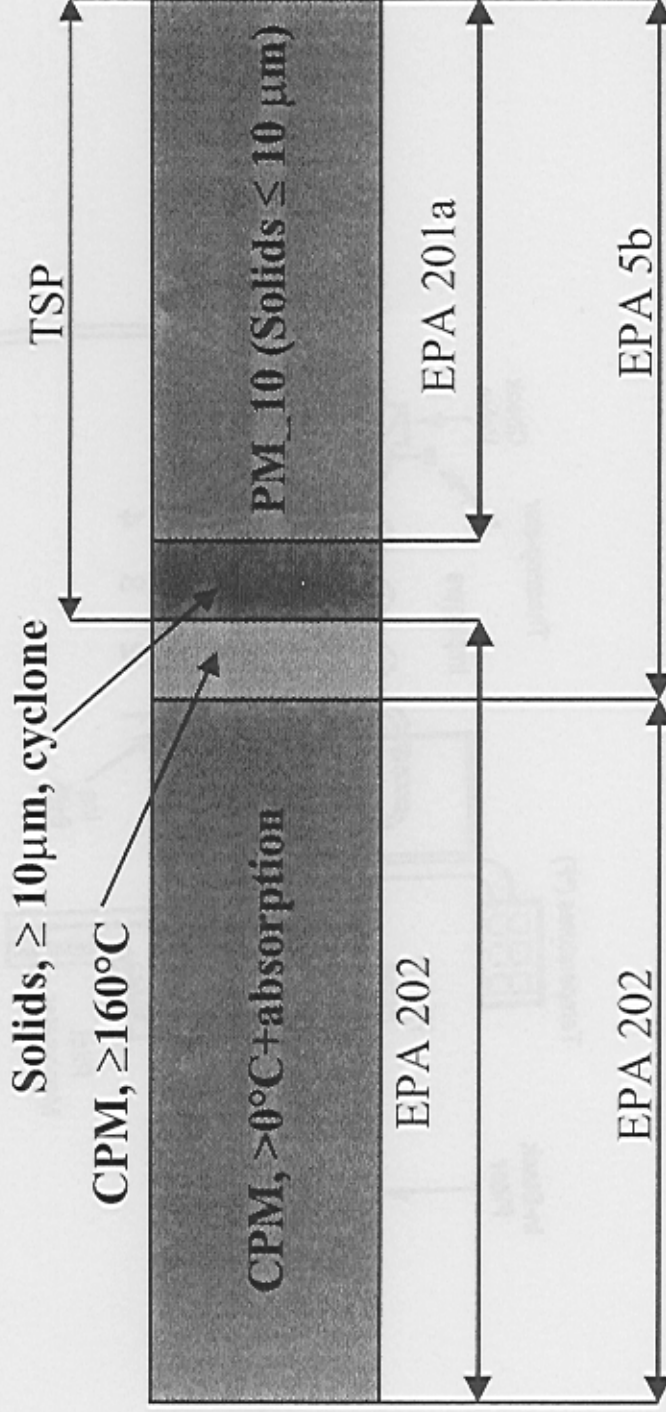
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Combustion : Measurement Methods

POWER

EPA = Environmental Protection Agency, USA
TSP = Total Suspended Particulates
PM₁₀ = Particulates ≤ 10 μm
CPM = Condensable Particulate Matter

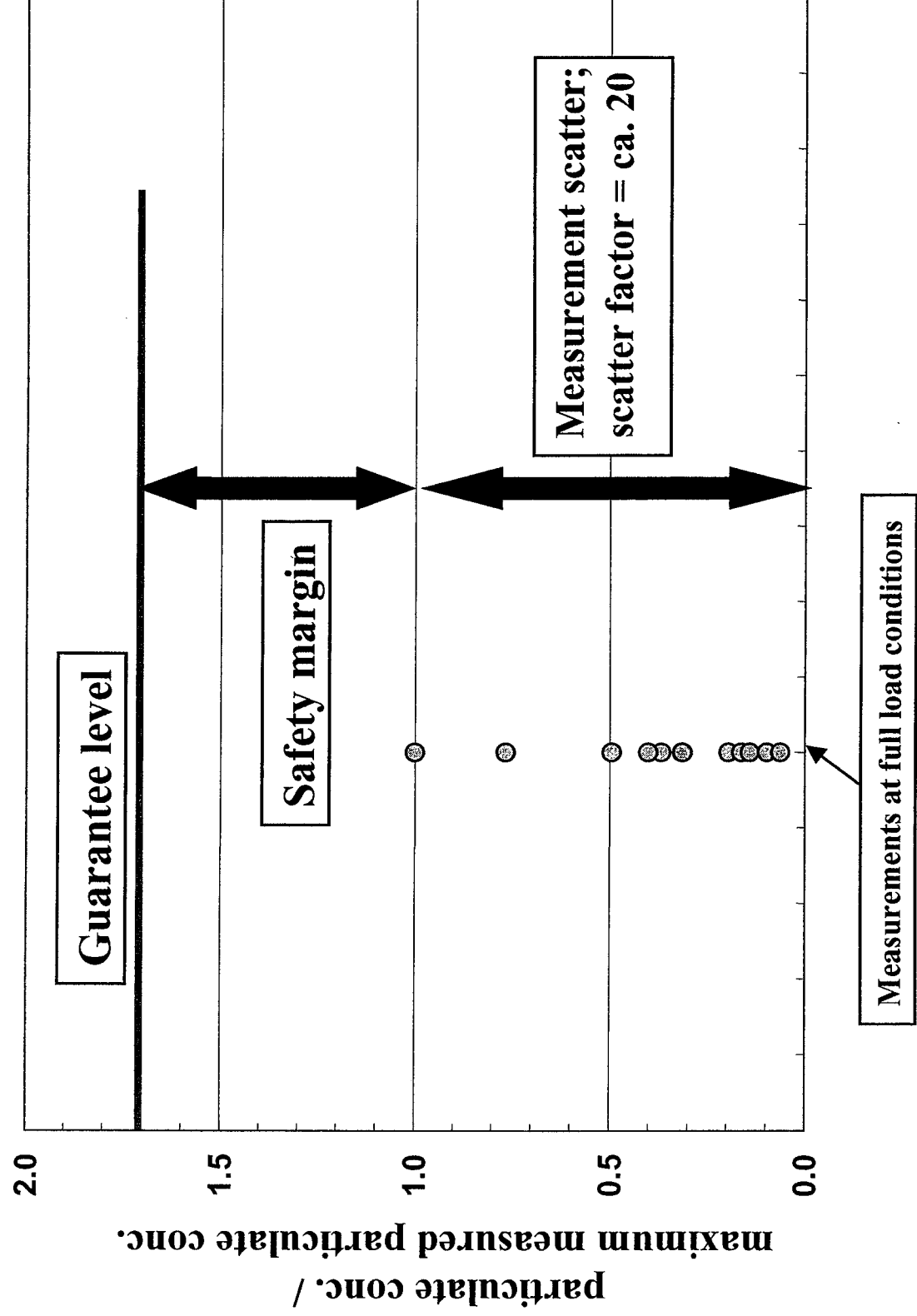
Standardized methods:
- EPA 201a/202
- EPA 5b/202



Gas Turbine Segment

**Particulate Emissions by Gas
Turbine Combustion :
Measurements**

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Particulate Emissions by Gas Turbine Combustion :

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Conclusions

- **Conclusions**
 - **Large scatter of measurement data due to:**
 - **measurement technique uncertainties**
 - **secondary effects (not combustion related i.e. operating hours, state of the machine etc.)**
 - **TSP \approx PM₁₀**
 - **Emission levels are at detection limit of applied measurement technique**
 - **Need for new field measurement techniques with better reproducibility and resolution**