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VENTILATION ASSESSMENT – FRYER DEVICE

On 19 September 2022, ventilation officials from this office attended a demonstration of a fryer device. The device was understood to be locally designed and developed and did have to exhaust to the outside, as would be the requirement for similar devices. The device was observed to have a two-stage filtration process with includes a carbon filter.

Test

The machine was loaded with a full load of potato chips and was set to fry for 4 minutes. During this time, Council officials from this office observed for any heat and steam discharge as well as odour emission.

Finding

- Minimal heat discharge was observed.
- No odour was detected.
- No steam emissions could be observed.

Since no nuisance emissions were evident with the machine operating under load, the SANS 10400 regulation for mandatory mechanical ventilation, for such conditions, will not apply i.e. NBR Reg O (01).

Conclusion

This office will have no objection to the indoor application of this device, without any extract flue, provided that the space in which it is applied is well ventilated. When deployed in a small and enclosed space, such space must be provided with at least an extract point situated overhead in the ceiling. Furthermore, that also no nuisance is caused from odour, heat or steam and that no long-term build-up of grease deposits become evident.

This office wishes you every success in the application of this locally designed and developed innovative fryer device.

Yours Truly,

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