



The Ribbon History of CCT Stack Air Quality Reports



Planning Instrument

The Minister of Planning's **Condition of Approval 274** for the CCT states that any development in the vicinity of the CCT stack requires an air quality assessment of potential impacts from the stack plume.

The protocol calls for two levels of assessment:

Level 1 - a simple and conservative assessment

Level 2 - if the building is found to be affected by the plume on the basis of the Level 1 assessment, a more advanced Level 2 assessment is required. A variety of models and modelling techniques may be used such as Computational Fluid Dynamics (CFD)

Evolution of Reports

2013 – Office building (Original DA)

- **Level 1** assessment only
- Report prohibited mechanical air intakes and balconies, roof terraces and operable windows above 60m

2015 – Hotel with indoor pool (New DA - SSD7388)

- Essentially no change from above ie. change of building use had no impact
- Approved with DA conditions **B29** (no mechanical intakes above 60m) and **B30** (no balconies, terraces or operable windows above 60m)

2016a – Hotel with indoor pool (Construction Certificate Stage 2)

- **Level 2** advanced assessment (CFD modelling)
- Report refutes DA condition **B29** and approved mechanical intakes higher than 60m
- Report was rejected by Transurban for not using real-world CCT emission data. Grocon's subsequent request for the data was not granted.
- DoPE overruled Transurban and approved the report (see attached)

2016b – Hotel with open-air pool (Grocon internal feasibility report)

- *Initial assessment of open air pool using the previous CFD modelling as basis*
- *Report seeks to refute DA condition **B30** which stemmed from a **Level 1** assessment only*

2017 – Hotel with open-air pool (S96 Mod 6 – SSD7388)

- Refined assessment of open-air pool
- Grocon again requested real-world CCT emission data to use in this report but none was provided by Transurban
- Report was rejected by Transurban for not using real-world CCT emission data

2018 – Hotel with open-air pool (S96 Mod 6 – SSD7388 supplement)

- Further refinement of report using real-world CCT emission data provided by Transurban
- Report found that the real-world operational data were 5 – 10 times lower than previously applied to data