

7 April 2025

Commercial Manager
AGIG

Dear [REDACTED],

Re: Moama exemption from National Gas Rule 10

As per our recent emails, please find below the information relating to the exemption of the Moama Distribution network from National Gas Rule 10.

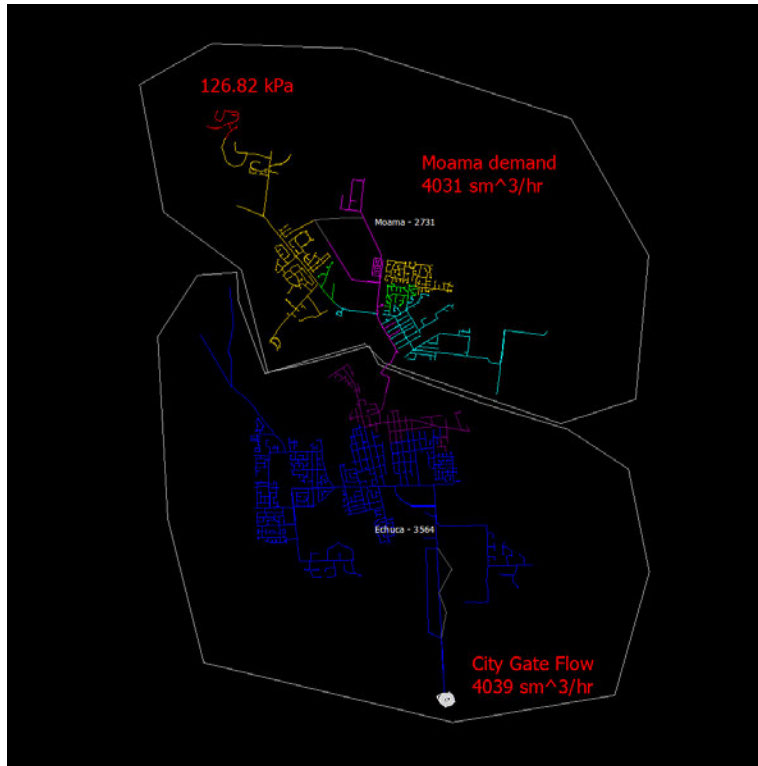
Moama Distribution network supplies approximately 3200 customers via distribution mains on the north side of the Murray River, opposite Echuca and connected to the Echuca distribution network via a 150mm Steel HP supply main that crosses the river on the bridge at Meninya St. Gas for both towns comes from the single Echuca City Gate to the south of Echuca.

Capacity of the Moama distribution network is approximately 3.7TJ/day well under the 10TJ/day limit. The evidence for this number is noted below:

1. Echuca City Gate serves both towns of Echuca (~6,100 customers) and Moama (~3,200 customers)
2. The outlet of the City Gate is duplicated 200mm steel mains
3. However, Moama is fed from Echuca via only a single 150mm steel main river crossing
4. We have used "Synergi" network modelling tool to estimate the peak flow possible through the river crossing
5. This value is around 3.7TJ/day which is below the 10TJ/day threshold
6. The reason why the peak value into the Moama network of 3.7TJ/day is below the City Gate capacity relates to:
 - a. The distance between the Echuca City Gate to the river crossing to Moama being approximately 7.5km.
 - b. Pipeline constrictions of the network from the City Gate to the steel main river crossing
7. A screen shot from the "Synergi" model is shown below.
8. The equation used to convert the information shown in screenshot as energy is shown below

$$\begin{aligned}\text{Energy} &= \text{Volume } m^3/hr \times \text{Heating Value } MJ / m^3 \\ \text{Energy} &= 4,031 \times 38.5 \times 24 \div 1,000,000 \square \\ \text{Energy} &= 3.7 TJ/day\end{aligned}$$

Screen Shot from Synergi model



Please let me know if you need any further information.

Yours sincerely,

[Redacted signature]

[Redacted name]

Manager Asset Planning
APA Networks

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