

[REDACTED]

From: [REDACTED]
Sent: 09 April 2018 19:58
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: Tees CCPP: Rule 6 Letter and Issue Specific Hearings

[REDACTED] / All,

Thank you for your two e-mails, both dated 23/3/18, seeking confirmation that NWL has the capacity to supply the following additional water demand in respect of the proposed Tees CCPP development, at the former Enron Teesside Power Station site at Wilton.

Construction Village Potable Water Demand (75 m³/day (at a peak flow rate of up to 2 litres/second) max with an average of 30 m³ day)

Sembcorp estimate at the peak of the construction phase there will be 750 people using the Construction Village. I have estimated that the maximum Construction Village Potable Water Demand will be 750 people x 0.100 m³ per person per day= 75m³/day (peak flow rate of 2 litres/second) maximum. Assuming this is being supplied from Sembcorp's existing service reservoir I can confirm that NWL has the capacity to supply the maximum construction village demand of 75 m³/day. For completeness, I can also confirm that NWL can supply the average Construction Village Potable Water Demand of circa 300 people x 0.100 m³/ person = 30 m³/day. Again this assumes this is being supplied from Sembcorp's existing service reservoir (storage).

Process Teesside Industrial Raw Water (Raw Water) Demand (175 litres/ second max, with an average of 140 litres/second)

The maximum raw water flow rate Sembcorp has requested is 175 l/s giving a daily maximum volume of 15,120m³/day for the proposed Tees CCPP development. This demand does not include fire fighting or emergency use. **In principle, I can confirm that Northumbrian Water Limited can supply the additional quantity of raw water of up to 175 l/s, as requested.** Currently we have been reviewing the raw water network as demand has reduced significantly in recent years, with a view to rationalising the network and assets to improve its efficiency and resilience. Assuming the proposed Tees CCPP development goes ahead, NWL will work with Sembcorp to ensure that up to 175 l/s of raw water is available for commissioning and process/operational use. It will be necessary for both parties to work collaboratively and to a clear timetable.

Operation Potable Water Demand (6 m³/day max with an average of 4.5 m³/day)

Once the Tees CCPP development is in operation the site will require sufficient potable water for 'domestic use' (toilets, showers, hand washing etc.) for a maximum of 80 employees, which equates to approx $80 \times 0.075 \text{ m}^3 = 6 \text{ m}^3$ day max. Assuming this is being supplied from Sembcorp's existing connections we believe we have the capacity to supply this additional potable water volume. The average operational potable water demand will be 60 employees which equates to $60 \times 0.075 \text{ m}^3 = 4.5 \text{ m}^3$ /day. Assuming this is being supplied from Sembcorp's existing connections we believe we have the capacity to supply this additional potable water volume.

Please note

NWL cannot provide guaranteed water supplies as there is always a risk of for example a catastrophic burst due to ground movement, or third party striking our asset. Whilst an interruption in water supply is very rare, they do occur and can take time to repair and the network to return to normal. Therefore it is NWL's preference, and recommendation, that Sembcorp supplies the water requirements for the proposed Tees CCPP from existing water storage facilities on Sembcorp's site. Alternatively the Tees CCPP development should install its own water storage facilities commensurate with its own operational needs. NWL has modelled the additional water demand requested, both Potable and Raw water, assuming it delivers the additional supplies to Sembcorp's existing reservoirs. Sembcorp is advised to ensure its private mains are capable of managing and supplying this additional demand to the former Enron site. In this regard we would advise that the private mains concerned are checked to ensure leakage levels are sufficiently controlled to ensure that no additional demand is placed on the supply due to on-site leakage.

In order to provide the raw water supply requested NWL are having to change its current strategy in relation to the rationalisation of its raw water network and assets. NWL is comfortable to do this in order to support an existing customer which is investing in the future. However, we would be grateful of any assurances that can be provided in respect of the project proceeding within the proposed timescales. We appreciate that these are complex large projects with a number of different requirements having to all come together at the appropriate time. So we will be as flexible as possible but would ask for clear and regular updates on the project and its timelines to ensure that NWL can take all appropriate actions in the event of the project proceeding, and equally in the event of the project not materialising.

We trust that this is sufficient for your needs and we look forward to working collaboratively with you on this project.

Can I close by reminding you of the new water Retail Market that enables all eligible Customers to choose a Retailer. We are aware that Northumbrian Water Group Business is your current Retailer and in order to comply with our level playing field requirements I can confirm that our approach would be no different regardless of your chosen Retailer.

Best Regards,

[REDACTED]

Wholesale Account Manager

[REDACTED]

[REDACTED]

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Tweet us @nwater_care

