15 February 2010

Ref: A284187

Mr Gary Davey
Director North East
Environmental Protection and Regulation
Department of Environment and Climate Change
Locked Bag 914
Coffs Harbour NSW 2450

Dear Gary

MUNMORAH POWER STATION REHABILITATION – HYDROGEN FLOURIDE MODELLING

In response to your letter dated 10 February 2010 relating to the hydrogen fluoride modelling undertaken for the updated air quality assessment for the Munmorah Power Station rehabilitation project, the following provides clarification of issues raised

1. Did the air quality assessment use a variable emission rate when modelling and assessing potential hydrogen fluoride impacts?

   The air quality assessment used a constant emission rate (g/s) based on the proposed maximum emission concentration of 30 mg/m^3 in the flue gas.

2. How did the assessment use *"segmentation and examination"* to predict 7, 30 and 90 day ground level concentrations?

   "Segmentation and examination" refers to the process of calculating "block" averages for the above averaging periods from the 366, 24 hour averages for the year.

3. Were the 7, 30 and 90 day averaging undertaken on a rolling or a block basis?

   The analysis was carried out using the time series output of daily averaged ground level concentrations at each sensitive receptor reported. The time series data of concentrations were averaged on a 'block' basis to calculate 7, 30 and 90 day averages. The averages were not calculated on a rolling basis.

   The concentrations were represented in a cumulative fashion by adding background levels of hydrogen fluoride being recorded at the Wyee ambient air monitoring station to the modelled concentrations.

Should you require any further clarification please contact me on (02) 9285 2719.

Yours faithfully,

Rodney Ward

Rodney Ward
General Manager Development

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