

18 March 2009

Mr Chris Pattas  
Australian Energy Regulator  
General Manager - Network Regulation South  
GPO Box 520  
Melbourne VIC 3001

Dear Mr Pattas,

**Re: Approval Process for Distribution Loss Factor (DLF) for Prominent Hill**

I am writing in response to your 26 November 2008 letter to Dave Thomas on this subject.

The OZ Minerals (formerly Oxiana) Prominent Hill electricity supply is connected to the BHP Billiton Olympic Dam Corporation operations 132 kV system at Olympic Dam. No other customer is supplied from this connection.

As the non-registered network service provider associated with the Oxiana metering installation, BHP Billiton Olympic Dam Corporation requests that you approve a DLF of 1.056 for 2009/10 for the Prominent Hill connection point which has been calculated in accordance with the attached methodology.

The DLF has been fixed at 1.056 for the life of the Oxiana - Olympic Dam Corporation Connection and Access Agreement. This Agreement will end in July 2018 (if not terminated earlier). Therefore, the attached methodology and the DLF of 1.056 will remain until otherwise agreed between the parties to this Agreement.

As this factor has been mutually agreed between Oxiana and Olympic Dam Corporation, a positive assurance/certification as suggested in your letter appears unnecessary.

Kind regards



Peter Lindner  
Utilities Manager, Olympic Dam

CC: Mick Wilkes, OZ Minerals

# METHODOLOGY FOR CALCULATING DISTRIBUTION LOSS FACTORS (DLF) FOR SUPPLY FROM THE BHP BILLITON OLYMPIC DAM OPERATIONS ELECTRICITY SUPPLY SYSTEM

## Background

Under the terms of its exemption to register as a Network Service Provider under the NER, BHP Billiton Olympic Dam Operations (ODO) is required to connect third parties to its electricity supply system on fair and reasonable terms. In connecting third parties ODO must consider the impact of the additional electrical losses caused by the third party. The fundamental consideration is that ODO will be no worse off as a result of the new connection.

The existing ODO metering installation is located at Davenport Substation some 260 km electrical distance from the Olympic Dam installation. As a consequence, it is necessary to apply a Distribution Loss Factor (DLF) to any party that connects to the Olympic Dam electricity infrastructure that takes into account the increases in losses that are attributable to that connection. Because of the “no-harm” requirement this involves determining the marginal increase in electrical losses and attributing these to the connecting party.

## DLF Calculation Methodology

The following methodology has been used to calculate the DLF for the Oxiana metering installation which is located at the Olympic Dam West substation.

1. The ODO load is set at its June 2007 Agreed Maximum Demand (AMD) of 125 MW at Davenport and the line losses associated with the ODO electricity supply system calculated from a load flow analysis.
2. The Oxiana load is set at its AMD of 48.5 MW at Olympic Dam West and the total load supplied at from the ODO connection point recalculated using load flow analysis
3. The incremental load supplied from the ODO connection point at Davenport attributable to the Oxiana connection at Olympic Dam is determined by subtracting the ODO AMD of 125 MW from the total load (including incremental losses)
4. The DLF for the Oxiana load is calculated by dividing the attributable Oxiana load plus losses determined in step 3 by the Oxiana AMD of 48.5 MW
5. No DLF weightings are applied because of the high load factors of both ODO and Oxiana and the forecast lack of load diversity between the two sites
6. The DLF calculated using this methodology is 1.056. This DLF will remain unchanged until such time as Oxiana request a change in AMD.