NGHI SON 1 POWER PLANT

INFORMATION TRANSMITTAL

From: Foster Wheeler **Transmittal No.: IT-FWC-MC-680**

To: Marubeni Corporation **Date: April 2, 2015**

Subject: Unit 1 Ball charge increase plan

In an effort to improve the UBC content of the ash, it is intended to increase the ball charge level on the Unit 1 mills. The balls will be added when the current mill testing is completed, but prior to combustion tuning.

Based on direct inspection, the existing level of 1B mill is known to be ~3" below the trunnion. This corresponds to the full design ball charge, which is 91% of the maximum ball charge.

From section 4 of the FW operating manual

Ball Charge/Pulverizer	*Initial	Design (Operating)
Ball Charge – % of Maximum	82	91
Total Weight – kg	73,800	82,000

FW intends to add 6 additional drums of balls to 1B mill, 3 drums x 30 mm and 3 drums x 25 mm which will result in a ball charge level to just below 100% of maximum (we estimate the charge will be ~88,000 kgs.) Once these balls are installed we will then establish the mill running amps for this condition by direct observation. We estimate this new current level will be in the 140-145 amp range. We will then install balls in the remaining 3 mills until this new operating current is reached using the same 50/50 split on the medium and small ball sizes.

Please note that in the future the typical maintenance ball charge additions (make up balls due to wear) use a 75%/25%, large/ medium ball ratio.