The video link this week is about First Coal Fire. There is a lot of information so it can take some time to buffer before it plays – please be patient.

Press the link below or copy and paste into your browser.

http://medupiproject.eskom.co.za/videos/FirstCoalFire.mp4
Progress on Unit 6

Medupi from the Air 10 December 2014
PJFFP Blower House – Installed compressors required for Aeration of dust hoppers

Remote Control Panels – Fabric Filter Plant lime off-loading remote control panels installed on Rows 1-4

Condensate Polishing Plant – Progress is very good for construction completion of the main ring and platforms are still on target for the 10th December 2014.

Apron Slabs underneath the ACC’s are still on progress

Installation of Condensate pipework on the pipe rack between the Turbine Hall and the ACCCT building has continued throughout the week
Unit 4 CRT construction has started. Base material is being installed.

Unit 3 cable tunnel construction on both turbine end and SSB end is progressing well.

Unit 3 Lube oil room plinth pour is complete. Bund wall construction is in progress.

Unit 3 Generator rotor was lifted into the generator clean condition area. IR, PI and HV tests will be done on 09 December where after the rotor will be threaded into the generator stator.

Boiler 4 outlet ducting support steel structure installation is in progress.

Boiler 4 CAC slab pour is complete and curing is in progress.
Wolf crane on Unit 1 boiler on place and commissioned

Unit 2 boiler North buck stay supports lifted into position

Unit 2 boiler 1200 ton crane lifts the largest section of ducting so far on the unit into place
Synchronisation is a process of matching the speed and frequency of the generator to the electrical grid. The Unit generator will not be able to generate electricity until it runs at the same frequency as the transmission network. This is done by making sure that the unit generator has the same line voltage, phase sequence, phase angle and waveform to the transmission network.

Synchronisation is normally achieved at a lower electrical load output (10-20MW) that the system can generate. Between synchronisation and the full operation there is a lot of optimisation (turbine auxiliaries, mill optimization, etc). Once all of these systems have been optimised only then can full operation be achieved. We expect this to happen at Medupi six months after synchronisation.