

Construction Update

From the Desk of the Project Director

Tuesday, 4 November 2014

50 DAYS

Final Countdown

Medupi celebrates **50 days** to 1st Synchronisation Unit 6 on Tuesday 4th November, as the final countdown begins.

With the following successful milestones behind us:

- **Hydro testing** – 15 May 2014
- **Boiler chemical cleaning** – 21 August 2014
- **Turbine on barring** – 30 August 2014
- **Draught group test run** – 10 October 2014
- **First Oil fire** – 17 October 2014

The team are now focusing on the final two milestones before 1st Synchronisation:

- **Boiler blow through**
- **Steam to set**

Team Medupi appreciate all the support from our Eskom colleagues as the clock ticks toward this momentous occasion.



Medupi Successful Innovations – Part 3 - CEO monthly meetings

Medupi Management realised that the only way to bring the schedule back on track was to have all the contractors working together as a team with one goal – 1st Synchronisation of Unit 6. Monthly meetings were introduced with the CEO / MD of each contractor in attendance and the GC Group Executive chairing the meetings with the Project Director. These meetings were used to focus on items on the critical path and to have contractors work together to find a solution to problems such as access, delays, etc.

The meetings were followed by a Plant walk down where the CEO's were split into groups to focus on the areas that they were responsible for with a Senior Manager from Medupi while they were required.

Actions in the field were noted and minutes distributed to all for resolution.

This intervention has been very successful and the meeting remains in place to date, the walk no longer required. Contractors continue to work with each other and the Delivery Manager to find solutions together.

A successful team beats with one heart and has one goal.



The video link Medupi from the Air can be accessed by clicking on the item below or copying and pasting the link into your browser. This video gives you an aerial view of Medupi.

Medupi from the air:

<http://medupiproject.eskom.co.za/videos/MedupiFromAbove.mp4>



Link Bridge



Turbine Hall



ACC's



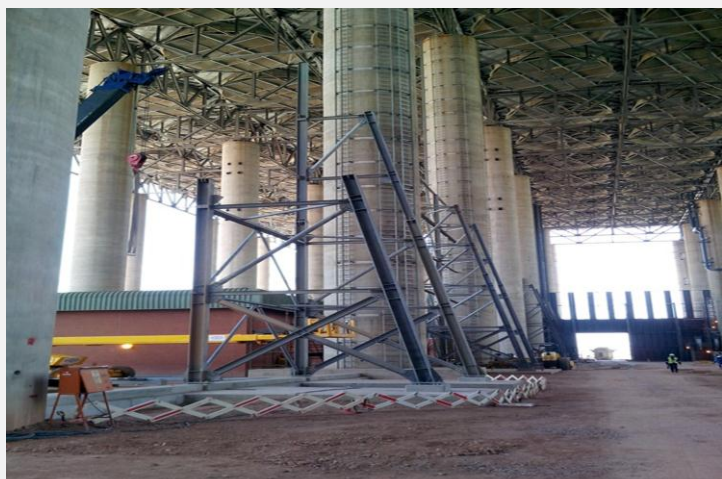
Mills



Installed and signed off cable racking to ID Fan motor terminal box. Installation of MV cabling in progress



ID Fan to Chimney ducting – Component 1.1 – 1.10, completed installation of pinning and sub-structures.



ACC Wind Cross: Erection of the steel structure for the 2nd and 3rd sections of the wind crosses has commenced after handover by the civil team.



The final wind-cross foundation for Unit 5 has been cast along the loading bay access. This will ensure erection of all the wind crosses in order to be out of the way for back energizing (safety precaution)



Access to Unit 5 ID Fans



13.6m Cable Tunnel Strapping: Alstom P17 has started with their first cable pulling on the 21st Oct 2014.



Both Service Transformers installed and auxiliaries assembled on Unit 4



Generator Transformer was placed into position on Unit 4



Pulse Jet Fabric Filter Plant (PJFF) substation building works have begun on Unit 3



20.6 m level slab completed. External brick work has begun on Unit 3



The 15M level of the ACCCT building is cast on Unit 1



Re-bar installation progressing well on Unit 2- 13.6m level

LAST PLANNER SESSION

On Saturday the 25th October 2014, twenty one managers, planners, engineers and supervisors from ELB (Outside Plant) and their sub-contractors gave up their Saturday to attend a Villego Last Planner Workshop. Also in attendance was Sibusiso Mkhonza, Eskom's Construction Supervisor (Outside Plant), and the workshop was led by Clive Vardakis, Eskom's Construction Manager (Outside Plant). This was also the first Villego workshop to be fully facilitated by a member of the Eskom Last Planner Core team rather than by a Last Planner Consultant. A clean sweep by the Outside Plant Team and a great milestone for the Last Planner Core Team!



The workshop itself was incredibly successful with great interaction from all the participants and the group was the perfect size for two teams, so competition was in the air as the teams battled it out to be the first to complete the build.

There was blood, sweat and tears but in the end only one could win, they actually won a round each, and in the second round there was only two seconds between them!

Feedback after the workshop was fantastic with everyone agreeing they had a really good day and had learnt some useful tools to assist in their planning and execution of projects. They couldn't wait to put it in to action!

A big thank you to everyone who gave up their time to attend and really make it a successful day!



Baboon spider rescue at Excess Coal Stock Yard and associated infrastructure nearing completion

To date approximately 800 baboon spiders have been relocated from the Medupi site. So why are we removing these spiders? Well, the two species in question (the golden-brown baboon spider and the curved-horned baboon spider), are protected species and are listed as endangered in terms of the TOPS list (Threatened or Protected Species Regulations promulgated in terms of the National Environmental Management: Biodiversity Management Act). These two particular species are endangered because they are popularly sought in the illegal wildlife and pet trade and sold all over the world.

Besides being a legal requirement, they play an important ecological role in the subterranean and surface environment and also perform handy functions like the regulation of numbers of a vast amount of other invertebrates.

The spiders have been removed from areas where their habitats will be destroyed and relocated to surrounding properties.

Currently the search and rescue of spiders at the excess coal stockyard phase 3 and associated infrastructure (such as pollution control dams and haul roads) is nearing completion. A total of 167 baboon spiders have been located and removed. These are relocated to various surrounding farms and properties, including Camelot, Anglo Coal, Matimba Ash Dump, Manketi Lodge from Exxarro and three other neighbouring farms.



Finding the burrows is difficult



Digging very carefully!



Ready for relocation to a new home



Other interesting animals that have been found in burrows on Medupi are centipedes, legless lizards, scorpions, trap-door spiders and an unknown spider species that was sent to an entomologist for identification. A very rare find also included the trapdoor-baboon spider, which is extremely uncommon. (picture on right)



Roman Crookes

Project Director: Medupi Power Station Project