

# Wygen III

## Progress Summary

### Report

### August 2009



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## 1.0 August Progress

Boiler Erector. The boiler erector continues work in preparation for a Sept. 21<sup>st</sup> boiler hydro. Penthouse casing and tight roof casing installation is in progress. Boiler penthouse pressure welds are complete with a total of 60 overall remaining. The AQCS is substantially complete with a formal turnover received by BHP in late August.

Architectural Contractor. The architectural contractor is approximately 95% complete. Break room and locker rooms are completed. HVAC in the elevator control room and commissioning of AHU's remain.

ACC Erector. Pressure tests completed on all installed duct. Substantial completion (structural / mechanical) attained on 8/5/09. Condensate piping installation in progress.

Insulation Contractor. The insulation contractor has installed insulation and lagging on 75% of the baghouse. Scaffolding is in place on the SDA inlet and baghouse outlet ducts.

Mechanical/Piping Contractor. The mechanical contractor continues to progress on both large and small bore piping, approximately 85% / 50% complete. A total of five mechanical systems have been turned over to BHP. ACW substantial completion scheduled for 9/7.

Electrical I&C Contractor. Electrical I&C contractor has completed pulling and terminating all medium voltage cable (overall 35% complete overall). MV gear relay testing is in progress. Electrical checks continue in preparation for 230kV backfeed.

Building Cladding Contractor. The building cladding contractor has completed the SDA penthouse as well as the SE corner of the boiler building. Contractor will remobilize in October to complete the balance of the work.

Commissioning. 230kV backfeed scheduled for September 15<sup>th</sup>. MVS commissioning checks in progress. DCS installed and is communicating with RIO's throughout the building. Loop checks in progress.

The project continues to remain on schedule for commercial operation by June 2010. Budget compliance is on track with 99% of total project budget awarded.

Engineering Progress	99% complete
Procurement Progress	87% complete
Construction Progress	75% complete

Total Project Progress 83%



ACC Progress



Relay Protection Cabinet

## 2.0 Major Work Complete in August 2009

- AQCS substantial completion
- Transformer yard including fencing and fire protection
- Ash sump structure complete
- ACC structural / mechanical substantial completion
- Service water tank substantial completion
- 1980/2043 boiler pressure welds complete
- Award T/G installation contract
- 85% LB / 50% SB piping complete
- Turbine casing hydro and delivery to Finspong, Sweden for final assembly
- Rotor blading in Gorlitz, Germany
- ACW structural completion
- FPA, CAA, WSC, CCD and CSTG system mechanical completion





ACW/ACC Erection Progress



PAC Silo Installation



Wygen 3 Turbine Rotor – Blading Progress

### 3.0 Major Equipment Contracts Awarded

- Steam Generator
- Air Quality Control System
- Turbine Generator



- Air Cooler Condenser
- Boiler Feedwater Pumps
- Medium Voltage Switchgear
- Motor Control Centers
- Distributed Control System
- Power Transformers
- Conveyor
- All BHP Supplied Valves
- Owner supplied large bore piping
- CEMS
- MV, LV and Instrumentation Cable



Transformer Yard Progress

## 4.0 Major Construction Contracts Awarded

- Foundations
- Steel Erection
- Chimney (Concrete Stack erection)

- Boiler Erection
- Architectural Siding
- ACC Erection
- Building Lighting
- General Construction
- Mechanical/Piping
- Building Fire Protection
- Electrical I&C
- Insulation and Lagging
- T/G Heavy Lift
- T/G Installation



Baghouse Insulation and Lagging



Service Water Storage Tank



Sootblower Installation



Pulverizer Seal Air Piping

## 5.0 Three (3) Month Outlook Key Activities

- Substantial completion of large bore piping
- Completion of boiler pressure welds



- Turbine casing, generator and rotor delivery
- Boiler refractory
- Boiler Hydro
- 230kV Backfeed
- Aux cooling water heat exchanger commissioning
- Burner installation
- Atomizer delivery and installation
- Boiler feed pump final alignment, couple and grout
- AQCS Insulation completion
- Gas path complete
- Plant elevator installation

## 6.0 Summary Milestone Timeline Schedule





