

Flinders Power Facts Demolition works



Background

The 90MW Playford A Power Station was commissioned on reclaimed land at the northern tip of Spencer Gulf in 1954. The site was subsequently expanded to accommodate the 240MW Playford B Power Station, which was commissioned in 1963.

Coal fired power generation at this time was secured for South Australia through the expansion of Leigh Creek coalfields, and the construction of a 250km dedicated rail line connection to transport coal from Leigh Creek to Port Augusta.

Below is an early image of the Playford A Power Station.



In the late 1970s an adjacent site was prepared at Port Augusta, culminating in the construction of the 544MW Northern Power Station in 1985.

In May 2016, power generation at the Augusta Power Stations ceased and demolition and rehabilitation works are now occurring on site.

Demolition works

Flinders Power, in alliance with McMahon Services Australia are working to decommission, demolish and salvage the power station assets in line with our closure obligations.

As agreed with the State Government, we will leave the site in a safe and stable condition suitable for future industrial/commercial use.

The large scale demolition works at the Augusta Power Stations commenced in July 2016 and are anticipated to

continue through until the end of June 2018.

Flinders Power and McMahon Services have coordinated the demolition with the relevant government agencies and emergency services, to ensure the highest safety and environmental standards.

Large structures on site are being demolished using a process called charge felling - using small cutting explosives to bring down parts of the station that are too high, difficult and unsafe to access with conventional demolition machinery.

If we are charge felling, notice of the event is provided to the community, local media outlets and stakeholders. We work closely with relevant government agencies and emergency services during this time. An exclusion zone (land and sea) is put in place and is strictly enforced by SA Police and security contractors.

Other demolition work includes the use of large machinery such as the PC 4000 - designed to tear, cut and pull down material on site is shown in the image below. Combining a 400 tonne Komatsu Excavator with the world's largest heavy duty cutting shear, the machine has a massive physical presence. The steel shear was custom fabricated in the United States, capable of piercing through 80mm high grade steel with a cutting force pressure of 5500PSI.



The demolition of the power station will see approximately 50,000 tonnes in scrap metal being removed from the site and recycled over the project lifecycle.



Key demolition milestones

Northern Power Station

- The Western Coal Bunker, Transfer Tower H and associated connecting conveyors were safely and successfully felled in March 2017. Prior to demolition, the coal bunkers were washed out to minimise dust emissions.
- In April 2017 the Eastern Coal Bunker, Transfer Towers E & F and associated connecting conveyors at the Northern Power Station site were successfully felled.
- A coal conveyor section known as Tower G, and the adjacent Economiser 1 structures at the Northern Power Station site in Port Augusta were safely and successfully felled in June 2017.

Playford A Station

- Playford A stack was successfully charge felled in September 2016
- Full demolition of the power station structural shell is complete
- Sorting of scrap metal from rubble is ongoing
- Backfilling of basement with Site Contamination Auditor approved material

Playford B Station

- Removal of large turbine generators
- Scrap recovery and processing will continue at Playford B Station in 2017
- Removal of asbestos and other hazardous materials in accordance with strict controls is also being undertaken through until October 2017









Other major demolition milestones will occur until approximately April 2018, when it's anticipated the Northern Power Station and Playford B stacks will be felled (refer to the key milestones image below). Flinders Power will engage with the community in the lead-up to these events.

Future site use

Once the demolition and rehabilitation works have been successfully undertaken in line with government and regulatory requirements, Flinders Power will look to sell the Augusta Power Station site in accordance with existing commercial/industrial land use zoning..

Flinders Power is receiving considerable interest from external companies who are interested in acquiring all or parts of the site for future use.

Demolition timeline

2017								2018							
MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
 West Coal bunkers and Transfer Towers charge felling	 East Coal bunkers and Transfer Towers charge felling		 Tower G and NPS Economisers charge felling		 Turbogenerator ring beams charge felling	 NPS Boiler charge felling	 Completion of Playford asbestos removal						 Northern and Playford stacks charge felling		 Practical completion
PORT AUGUSTA DEMOLITION															

Where can I find out more?

You can call us on 0419 252 760 or email us at enquiries@flinderspower.com.au with any questions about the demolition works occurring at the Augusta Power stations. More information and videos of the demolition works can be found on our website at <http://flinderspower.com.au/community-information/>