



EPA Sustainability Licence

EPA 16747

New Castalloy Pty Ltd

Allotment 57, 76-92 Mooringe Avenue, NORTH PLYMPTON 5037 SA

Commitment vs Achievement Report

Date 15/12/10

Part 1 Update

Environmental Sustainability Agreement

Achievements since November 2009

New Castalloy has in the last 12 months reduced:

- water use by -13%**
- electricity by 15% in 2010
- gas by 7% in 2010
- waste to landfill by 56% in 2010
- liquid waste by 19% in 2010

Community complaints - No complaints received for the period

** Increase in water use mainly due to increased chrome product and greater water flow requirements of evaporative air conditioners. Our efficiency per KG cast has improved from 16.19L to 12.55L. Total water usage has reduced by 48% since 2005/06

Progress Report on actions to improve New Castalloy's environmental sustainability

New Castalloy and the EPA have collaborated on the following opportunities and supporting actions to improve environmental sustainability.

| Key strategy 1: reduce water use | | Status as at 15/12/10 |
|---|---|--|
| New Castalloy will install a counter-current rinse system on their paint-line pre-treatment to allow the final rinse water to be used for less critical rinses. | .EPA advise not required | 100% completed Savings not measured |
| Key strategy 2: increase water reuse | | |
| New Castalloy will investigate opportunities to divert their reject water from their reverse osmosis plant for use in the heat treatment plant and by the West Torrens Council. The Council will use the water for street sweeping and watering of local parks and gardens. | The EPA supported NCA's grant funding and supplied training in grant writing | The project was put on hold as NCA have installed an alternative on-site water reuse program instead. Alternative project has been 100% completed with savings of 56KL/day |

| | | |
|--|--|---|
| Key strategy 3: improve lighting efficiency | | Status as at 15/12/10 |
| <p>New Castalloy will further reduce the energy used by lighting through:</p> <ul style="list-style-type: none"> * installation of more efficient lights/ diffusers * rewiring of lighting circuits into zones * installing daylight-sensitive automatic switches. | The EPA arranged and funded the energy audit. | <p>100% completed. 100 x 400 watt lights removed. Further 65 lights are on day-light switches</p> <p>Savings of 312KWhr / summer day and 208KWhr / winter day. Overall savings of 57Tonnes of CO2 equiv / yr.</p> |
| Key strategy 4: improve compressed air efficiency | | |
| <p>New Castalloy will modify controls and practices to allow the air compressors to be shut down when not needed and to rearrange equipment to minimise air demand.</p> | EPA provided comment via the energy audit | 100% completed |
| Key strategy 5: maintain social licence to operate | | |
| <p>New Castalloy will annually review how they engage with stakeholders including the local community to address verifiable environmental concerns.</p> | The EPA attended the community consultation meetings. | Community consultation held in February and 20 th October 2010 |

Identified future actions

| Key strategy 1: continuous environmental improvement to decrease waste production and improve waste management | | Status as at 15/12/10 |
|--|---|--|
| <p>New Castalloy will investigate new methods to:</p> <ol style="list-style-type: none"> 1. produce foundry cores using less sand 2. reduce the loss of soluble oil coolant from the desprue machining cell 3. dispose of waste powder-coat paint. | EPA provided assistance with the investigations with the waste paint. | <ol style="list-style-type: none"> 1. Trails with largest cores are on-going-iterative trial no. 6 is currently being performed. 2. Bund, sump and pump back system is 100% complete. 3. Various investigations have been conducted with the EPA. A cost-effective outcome has yet to be found. |
| Key strategy 2: continuous environmental improvement to decrease energy use | | |
| <p>New Castalloy will investigate the most practical options for sub-metering areas of high energy consumption.</p> | Fruitful discussions held between the EPA and NCA on the subject | 100% Completed- 3 sub-meters have been installed in the following areas– compressors, chrome plant and low pressure electric furnaces |

| Key strategy 3: continuous environmental improvement by product design | | Status as at 15/12/10 |
|--|---|--|
| <p>New Castalloy will design new product castings to minimise machining requirements to reduce the consumption of energy, cutting oil, aluminium and water, and the production of waste.</p> | Fruitful discussions held between the EPA and NCA on the subject | Machining allowance has been reduced to 1.25mm against an industry standard of 2 mm |
| Key strategy 4: continuous environmental improvement by external stakeholders | | |
| <p>New Castalloy will, with other companies and organisations such as foundry operators, foundry sand suppliers and relevant industry associations, investigate possibilities for reprocessing used foundry sand for reuse in their operations.</p> | The EPA supported the investigations into UFS reuse with ABC.. | 100% completed- Commenced reuse of UFS at ABC- drop of 1600 tons per annum is expected |

