AkzoNoL

Community Forum May 31st, 2022

Agenda Odour Update Noise Update Communications Questions

Odour Updates

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RTO – Resin Plant



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- Commissioned & Operational from December 2021
- Latest monitoring results completed in May show improved efficiency for Odour
- Sealing of openings to reduce potential fugitive odour releases
- Installation of PID's (Photo Ionisation Detectors) real time monitoring

Paint Plant Update – Interim Actions

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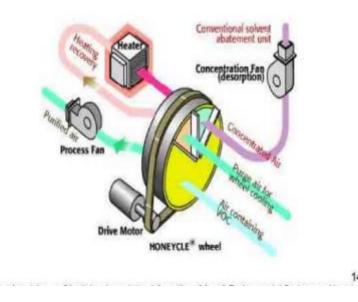


T Ceased night shift from 9th May

- **T** Carbon filter commissioned in May DP 106
- Installation of 2 further Carbon Filters to be commissioned in July to control Odors from other paint sources
- Future installation of PID's
- Management of fugitive emissions
- Improve airflow efficiencies through upgrade of ducting

Paint Plant Update – Permanent Solution

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Installation of Concentrator Wheel

■Link to Resin Plant RTO

Carbon Filter retained as 'back-up'

Target commissioning Q2 2023

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AkzoNobel Sunshine Plant: Odour and VOC Monitoring

Cameron S. McNaughton, PhD, CAQP, CPEng Principal Air Quality Consultant

31 May, 2022



Summary of Activities

AkzoNobel Sunshine Powder, Paint and Resin Plant

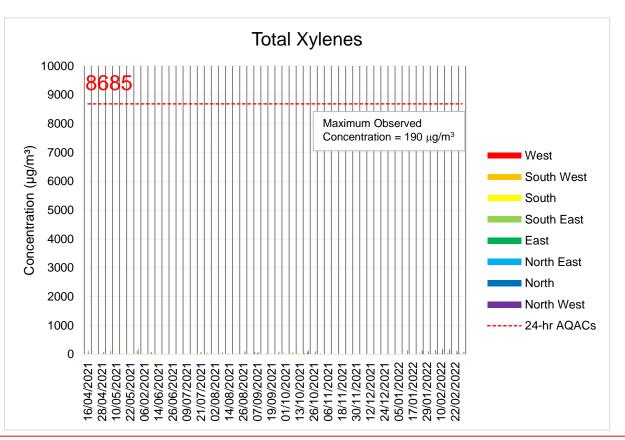
- 1-in-6 day fenceline monitoring of volatile organic compounds (VOCs)
- 1-in-3 day fenceline odour monitoring and community odour surveys
- Activated Carbon Filter (AC Filter) Stack Testing
- Regenerative Thermal Oxidizer (RTO) Stack Testing
- Odour dispersion modelling



Monitoring Results

Fenceline monitoring of VOCs

- 1-in-6 day fenceline monitoring
- March 2021 until February 2022
- No exceedances of Victoria EPA <draft> 24-hr average Air Quality Assessment Criteria (AQAC)
- Maximum observed
 Ethylbenzene concentration
 <1.0% of the <draft> AQAC
- Maximum observed Total
 Xylenes concentration <2.5% of
 the <draft> AQAC



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Monitoring Results

Fenceline odour monitoring and community odour surveys

1-in-3 day fenceline monitoring	Year	Month	Odour Intensity				≥Distinct Odour Source				
Started August 2021 and is ongoing	Tear		Not Detectable	Very Weak	Weak	Distinct	Strong	Very Strong	Total	AkzoNobel	Other
Characterization of:		August	42	18	12	7	1	1	81	6	3
Location		September	47	16	11	3	6	1	84	9	1
 Odour intensities 	2021	October	41	25	20	8	2	1	97	8	3
 Prevailing winds 	2021	November	ovember 42 17 18 11 1 1 90 5	8							
 Odour character 		December	39	13	17	13	4	0	86	9	8
		Total (%)	48%	20%	18%	10%	3.2%	0.9%		8.4%	1 3 8
"Distinct" levels of odour at the fenceline ~15% of the time		January	40	12	16	10	3	0	81	8	5
		February	33	21	16	13	1	0	84	9	5
~60% of these events related to	2022	March	39	22	9	5	0	0	75	4	1
AkzoNobel activities		April	33	22	17	15	4	0	91	9	10
		Total (%)	44%	23%	18%	13%	2.4%	0.0%		9.1%	6.3%

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Stack Testing Results

Regenerative Thermal Oxidizer & Activated Carbon Filter

- Resin Plant AC Filter testing:
 - September
 - October
 - November
 - December
 - March
- Resin Plant RTO testing
 - December
 - March
 - May (results pending)
- AC Filter #1 moved to paint plant (DP106) interim solution
- Two additional AC Filters for paint plant (DP13 and DP53) interim solution to be installed end of July
- Paint Plant "Concentrator Wheel" plus Resin Plant RTO permanent solution

Unit	Test Date	Odour Removal	NPG Removal	Notes
	Sept, 2021	0%	98%	Media spent
n)	Oct, 2021	89%	97%	
AC Filter (resin)	Nov, 2021	98%	97%	
A C L	Dec, 2021	0%	99.9%	Media spent
	March, 2022	99.6%	99.6%	
2	Dec, 2021	87%	99.7%	
RTO (resin)	March, 2022	83%	97%	
ĽĽ	May, 2022	91%	pending	

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Odour Modelling Results

Modelling Potential Effects of Odour from Paint and Resin Plants

Base Case Emissions

- 24/7 paint plant operation
- Existing emissions profile

Interim Emissions:

- 12-hour weekday operations
- Interim treatment of DP13, DP53 and DP106 (85% removal)

• Future Emissions:

- Ventilation System Redesign
- Paint Plant "Concentrator Wheel & treatment using RTO

CASE	24/7 emissions, no emission controls	12-hour weekday emissions, with controls on DP13, 53, 106
Fraction of		
hours < 1	68%	84%
Maximum		
Concentration	23	13
Fraction of		
hours > 5	11%	1.9%

Noise Review

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Noise Review

- Nosie reduction action plan in place and being implemented
- Upgrade to mill fan soundproofing with the addition of acoustic panels
- Additional noise suppression of fan deck with installation of vibration mounts
- Monitoring event to calculate impact of recent changes in June
- Acoustic Wall currently under tender process.
 Estimated completion Sept.

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Reporting of Complaints

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Reporting of Complaints

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- **5** complaints received YTD
 - 1 report due to trade waste system fault
 - 2 reports where no abnormal event identified
 - 2 reports where offsite odour sources identified
- **7** Difficult to give responses as complainants are not leaving contact details
- We continue to encourage community members to report issues directly to AkzoNobel so that we can investigate at the time of reported incident.
 - Phone 03 9313 4555

Email reception.sun@akzonobel.com

New reporting system

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ABOUT US MEDIA INVESTORS CAREERS SUSTAINABILITY INNOVATION

AkzoNobel Sunshine North Community Hub

As a longstanding member of Sunshine North, we care about our place in the community and want to be a good neighbour. The safety and well being of our employees and neighbouring residents are our top priorities.

REPORT & COMPLAINT

Alcohobel / Countries / Alcohobel Australia

Facility updates

We have heard the community's concerns regarding our Sunshine North facility and want to keep you updated. This website has been created to keep the community of Sunshine North informed about the facility and act as a means for members of the community to provide feedback and post questions to Akinobole.

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Community Reports/Complaints

Use this form to as a script for receiving and logging external calls relating to odour, noise or other environmental issues

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Thank you for reporting. It's helpful for us to know if our operations are impacting the community. What is the nature of the issue?

 Dust/smoke 	
Other	
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Never give out your password. Deport abuse	

Submitted Questions

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Submitted Questions

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• When are we expecting to see total elimination of odour beyond your factory walls?

The connection of the paint plant VOC sources to the RTO through the 'Concentrator Wheel' is targeted for completion by Q2 2023. In the interim 3 carbon filters will be installed which will significantly reduce the high-level odour events.

Even with the paint plant reducing hours from 20 to 12, that will mean that those who are at home and in the area during the day may still smell the odour?
 Based on Golder modelling the interim odour reduction measures will reduce the frequency and intensity of odour in the community. This will be validated by ongoing boundary odour and community odour monitoring.

• Does that mean you will be increasing production during the day to compensate for the loss of night-time production?

Day time production volumes have increased due to the cessation of night shift, however as the airflows from stacks are consistent any increase in emissions is minimal.

Thermal oxidation does not seem to work?

Thermal oxidation is considered the industry leading technology to combat VOC and Odour emissions. Monitoring results show the RTO is operating at >85% removal of odour and >95% for neopentyl glycol. The future installation of the PID's will provide real time monitoring of the RTO efficiency.

Submitted Questions

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Operation hours are always 24/7 regardless what AN states?

The site does operate 24/7 with the resin plant operational. The powder plant night-time operation was ceased in December 2020 and most recently the night shift in paint was ceased in May 2022.

• Why do we continue to notice odour and noise from the AkzoNobel site? Frequently I observe strong odours from the factory and when I call them they say "oh we had the doors open to vent the smell out". This should not be occurring!

There have been occurrences whereby doors have been left open which has the potential for fugitive releases. We are running an education program across the site of the importance to ensure that all vessels are sealed and that all doorways are always closed. We are also installing automatic roller doors to prevent to possibility of them being left open.



Thank you