



File no: 14/5/3

SUBMISSION TO THE CHIEF EXECUTIVE

1. SUBJECT

Request Chief Executive to approve the deviation for emergency work done to fault find and repair Raw Water pump 9 VSD at Magalies Water's Vaalkop.

2. PURPOSE

To request the Chief Executive to approve the appointment of external service provider for emergency work to fault find, and repair Raw Water pump 9 VSD at Magalies Water's Vaalkop.

3 BACKGROUND

The Vaalkop Water Treatment Works (WTW) was built in 1969 with the main goal of supplying water to Platinum mines within the Thabazimbi and Rustenburg areas. Today Vaalkop WTW provide quality bulk water and secondary services to mines, municipalities, Limpopo and North West. The 270ML/day plant serves the following major consumers: Thabazimbi, Moses Kotane, Rustenburg Local Municipalities, Royal Bafokeng Administration, Royal Bafokeng Mines, Xstrata (SA Chrome), Amandabuilt Mine, Swartklip Mine, Northam Platinum Mine, and Impala Platinum.

Raw Water pumpstation has 11 pumps feeding raw water to the plant.

Plant	Pumps	Operating pumps	Flows	Pipelines size
Plant 1	11 + Sup	2	150+200 l/s	DN400
Plant 2	1, 2, 3, 4, 5 & 6	4	900 l/s	DN400 & 600
Plant 3 & 4	7, 8, 9 & 10	3	1800 l/s	DN1500

Plant Capacity

Plant 1	30MI/d
Plant 2	90MI/d
Plant 3	120MI/d
Plant 4	30MI/d

Deviation work done on Raw Water pump 9 VSD

67

V.A.

4 DISCUSSION

On Tuesday 07 May 2024, around 12h00 the raw water pump 9 tripped due to the VSD fault. The inlet flow to plant 3 and 4 was reduced due to unavailability of raw water pump 9. Raw water pump 9 and 10 were not operational and are of the same size.

Production reported the fault to maintenance department. Raw Water pump 9 and 10 displayed VSD fault on SCADA. The electrician started doing fault finding and requested assistance from the Line Manager. The team diagnosed the fault to be on the WEG variable speed drive. The pumping rates from raw water to plant 3 and 4 were reduced from 1800 l/s to 950 l/s.

The maintenance team was not able to resolve the fault on pump no. 9 VSD, Hence the external services were required.

On the 07 May 2024 Maintenance Department requested SCM to source the services of an external service provider on an emergency work.

The service provider arrived onsite on the 07 May 2024 to fault find and repair the Variable Speed Drives (VSD) for pump no.9 on emergency. The service provider diagnosed the fan control card and fan motor.

The service provider delivered the spares parts on the 10 May 2024 and started the replacement and repair on the 10 May 2024. After the repairs of pump no.9 VSD's, it was commissioned and back in operation. The pumping rates increased to 1800 l/s to plant 3 and 4.

The submission was delayed due to lack of follow ups from the Sectional Head of Electrical. The non-processing of the submission and further the payment to the service provider was as a result of the responsible line manager not executing his duties. Consequence management, on serious neglect of duty, has been instituted in line with the Magalies Water disciplinary policy.

5 ORGANIZATIONAL IMPLICATIONS

Upholding Magalies Water obligation of provision of bulk water to consumers.

6 FINANCIAL IMPLICATIONS

The total cost for the repairs inclusive of VAT amounted to R62 096,40 which will be covered on Operations budget for Electrical.

7. LEGAL IMPLICATION

The implementation of the project will meet all legal requirements and will follow normal procurement processes.

8. COMMUNICATION IMPLICATIONS

All stakeholders were kept at abreast and comfort of any developments regarding these breakdowns of pump no.9.

9. OPTIONS

Deviation work done on Raw Water pump 9 VSD

OR

V. A

Magalies Water had no option but to appoint the external service provider to perform the emergency repairs. The risk of delaying or postponing the repairs would lead to water interruption to consumers.

10 DELEGATION

It is within the Chief Executive's delegation.

11. RECOMMENDATIONS

It is hereby recommended that the Chief Executive approves the Ex-post facto deviation for emergency work done to fault finding and repair Raw Water pump no. 9 at Magalies Water's Vaalkop.

SUBMITTED BY:

Name: Phemelo Mosimanyana

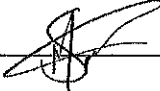
Designation: Maintenance Planner

Signature 

Date 07/08/2025

SUPPORTED BY LINE MANAGER:

Name: Mthokozisi Mavimbela

Signature 

Date 07/08/2025

SUPPORTED BY REGIONAL MANAGER:

Name: Sandile Ngcobo

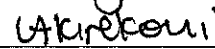
Signature 

Date 07/08/2025

SUPPORTED / NOT SUPPORTED BY:

GENERAL MANAGER OF BUSINESS UNIT

Name: Vhahangwele Akhwekoni

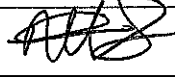
Signature: 

Date: 07-08-2025

Deviation work done on Raw Water pump 9 VSD



APPROVED BY *Deviation for Pump 9 VSD. at Vaalkeop WTW*

ACTING CHIEF EXECUTIVE OFFICER	Ofentse Nthutang		17/08/2025
--------------------------------	------------------	--	------------

Deviation work done on Raw Water pump 9 VSD



APPLICATION FOR EX POST FACTO-APPROVAL

Instructions for the completion of this application form

1. The Magalies Water's SCM Policy and Procurement Procedures are applicable and must be consulted.
2. This application must be accompanied by a completed form ST 87.1.
3. Applications must be signed by the senior manager or an equivalent rank.

APPLICATION:

Application is hereby made for ex post facto-approval in terms of Regulation 3(4) (give a description):

Indicate under which circumstances action was taken.

- **In case of best interest to Magalies Water;**

It is hereby certified that the action did not occur as a result of negligence or ignorance and it was taken both as a result of an emergency following the failure of Raw Water pump no. 9 and in the best interest of Magalies Water. This action was taken with care and coincided with what is expected of a reasonable person and that no fruitless expenditure had been incurred.

Division: Water Services

Address : Vaalkop Water Treatment Works

75 JQ Bullhoek Farm

Beestekraal

Tel : 0636122156

SIGNATURE (APPLICANT) 

CAPACITY: Maintenance Planner

DATE: 07/08/2025

NAME OF GM: Vhahangwele Akinwekoni

SIGNATURE GM: Akinwekoni

DATE 07-08-2025

OF VA.

ST87.1

ANNEXURE TO APPLICATION: CASES OF EMERGENCY

NB: This form must be completed and submitted under cover of a completed ST 87 in matters where action was taken in the case of emergency.

1. Full particulars of the circumstances which could not be foreseen

The Vaalkop WTW's Raw Water pump no. 9 tripped on the VSD fault and failed to reset. The breakdown occurred on the 07 May 2024. The pump displayed the VSD fault. The fan control card and fan motor were diagnosed faulty.

2. Outline the dangerous or perilous condition or misery or defect that occurred as a result of the state of emergency or could have resulted or damage that could have been incurred.

Consequently, the pumping rate from Raw Water to Plant 3 and 4 reduced from 1800 l/s to 950 l/s. Normal fault finding could not establish the root cause of the failure, assistance was hence sought from an external service provider to ascertain the cause and start the process of repairs.

Reduced water supply impacts negatively on Magalies Water's ability to fulfil the board's mandate of delivering reliable service. It could have led to consumers instituting legal proceedings against Magalies water for failing to achieve its contractual obligations due to non-supply. For this reason, it became unavoidable to immediately conduct tests and repairs on the Raw Water pump no. 9 to come back to full production.

3. Indicate what was aimed at with the action in order to relieve, stem or to prevent the state of emergency.

The action was taken in order to bring the Raw Water pump no. 9 back to full operation.

4. What was the actual result of the action with regard to the appointed goal?

The service provider managed to to conduct fault finding and replace items that had failed on the Raw Water pump no. 9 VSD's.

5. Furnish exact detail of time and time scales applicable at the time of action.

5.1 Date on which requirement became known: 07th May 2024

5.2 Date on which the supply or service had to be available: 07th May 2024

5.3 Date on which supplier was requested or contract awarded or order was placed:
07th May 2024

5.4 Period required by supplier for performance: As practicably possible to ascertain the fault.

5.5 Date of commencement: 10th May 2024

5.6 Date of completion: 10th May 2024

6. **What attempts were made to obtain prior authorisation from the Procurement Centre (If not, reasons must be furnished)**

Procurement was informed via telephonically and email requesting that a service provider be sent to the plant to evaluate and repair the damaged assets.

7. **Describe the manner of in which price quotations or tenders, placement of order as well as payment were handled.**

The service provider was sourced by procurement with instructions to repair, as this was an emergency that could have resulted in further reputational damage to Magalies Water.

8. **Which tender / contract conditions was applicable.**

N/A

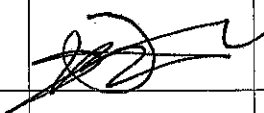
9. **Furnish a price analysis and comparison with normal price.**

N/A

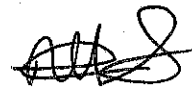
10. **Indicate whether the application is arising from an Audit inquiry or not.**

Not an audit

11. APPROVAL STATUS
RECOMMENDATION STATUS

	NAME	SIGNATURE	DATE
SUPPORTED / NOT SUPPORTED: BAC MEMBER	Tsholo Mentoro		07/08/2025
SUPPORTED / NOT SUPPORTED: BAC MEMBER	Vhahangwele Akinwekomi		07.08.2025
SUPPORTED / NOT SUPPORTED: BAC MEMBER	Teleni Ntabeni		07/08/2025
SUPPORTED / NOT SUPPORTED: BAC MEMBER	Tshiamo Mpane		07/08/2025
SUPPORTED / NOT SUPPORTED: BAC MEMBER	Matshidiso Tabane		7/08/2025

14. APPROVAL STATUS

	NAME	SIGNATURE	DATE
APPROVED / NOT APPROVED: CHIEF EXECUTIVE	Ofentse Nthutang		07/08/2025
Comment:			