



# mineral resources & energy

Department:  
Mineral Resources and Energy  
REPUBLIC OF SOUTH AFRICA

## Winding Plant Inspection Report

Date of inspection : 2025 03 10 YY/MM/DD (LAST DYNAMIC TEST)

Winder number : NCH2 PW\_WP49B1

Region : A B C D E F G H J K

Mine number : MN0020

Shaft number : NCH2

Quick drop time (sec)	:	U/L:	0,2 s	O/L:	0,2 s
Quick drop distance (mm)	:	U/L:	21 mm	O/L:	21 mm
Full stroke distance (mm)	:	U/L:	165 mm	O/L:	165 mm
Operating brake engine distance (mm):	:	U/L:	56 mm	O/L:	55 mm
Hydraulic pneumatic pressure Mpa)	:	U/L:	11,4 MPa	O/L:	11,1 MPa
Brake holding current (Amps)	:	U/L:	150 %	O/L:	150 %
Frontbrake clearance (mm)	:	U/L:	1,45 mm	O/L:	1,45 mm
Rear brake clearance (mm)	:	U/L:	1,45 mm	O/L:	1,45 mm

### Test

Type of test : 01 SPEED (m/s)

#### Dynamic test

First test	:	U/L:	2,7 m/s	O/L:	2,6 m/s
Second test	:	U/L:	5,3 m/s	O/L:	5,3 m/s
Third test	:	U/L:	NA	O/L:	NA
Full speed	:	U/L:	NA	O/L:	NA

### Test

Type of test : 02 TRIP TO STOP (m)

#### Dynamic test

First test	:	U/L:	11,9 m	O/L:	12,1 m
Second test	:	U/L:	20,8 m	O/L:	21,0 m
Third test	:	U/L:	NA	O/L:	NA
Full speed	:	U/L:	NA	O/L:	NA

### Test

Type of test : 03 CONTACT TO STOP (s)

#### Dynamic test

First test	:	U/L:	1,3 s	O/L:	1,3 s
Second test	:	U/L:	2,0 s	O/L:	2,2 s
Third test	:	U/L:	NA	O/L:	NA
Full speed	:	U/L:	NA	O/L:	NA

### Test

Type of test : 04 AVERAGE DECELERATION (m/s/s)

#### Dynamic test

First test	:	U/L:	2,1 m/s/s	O/L:	2,1 m/s/s
Second test	:	U/L:	2,6 m/s/s	O/L:	2,5 m/s/s
Third test	:	U/L:	NA	O/L:	NA
Full speed	:	U/L:	NA	O/L:	NA

### Test

Type of test : 05 MAX. DECELERATION (m/s/s)

#### Dynamic test

First test	:	U/L:	2,7 m/s/s	O/L:	2,7 m/s/s
Second test	:	U/L:	3,6 m/s/s	O/L:	3,3 m/s/s
Third test	:	U/L:	NA	O/L:	NA
Full speed	:	U/L:	NA	O/L:	NA

### Test

Type of test : 06 REMAINING DISTANCE TO BANK (m)

#### Dynamic test

First test	:	U/L:	9,9 m	O/L:	10,2 m
Second test	:	U/L:	14,6 m	O/L:	14,6 m
Third test	:	U/L:	NA	O/L:	NA
Full speed	:	U/L:	NA	O/L:	NA

## Test

Type of test : 07 DEGREE OF PROTECTION (%)

### Dynamic test

First test	:	U/L:	603 % 6,03	O/L:	637 % 6,37
Second test	:	U/L:	335 % 3,35	O/L:	326 % 3,26
Third test	:	U/L:	NA	O/L:	NA
Full speed	:	U/L:	NA	O/L:	NA

INSPECTION RESULTS :

☒ PASSED ☐ FAILED

### REMARKS :

O/L LOWER

U/L UPPER

Acceptable DOP Achieved.

INSPECTOR: PRINT NAME Colini Jacobs SIGNATURE: [Signature]

ENGINEER: PRINT NAME Xavier Petersen SIGNATURE: [Signature]

[Signature]  
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12.09.2025