

 SMULDERS	EWP G1 External work platform – FAT documentation	25220 Hollandse Kust Zuid
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Mechanical Release Note EWP Rev 2 #19

Description	G1
Status	Submitted
Assignee	Ben Herygers (BHE)
Date	30-06-2021

Final Checklist Mechanical

Sub-contractor: Smulders
Contractor/ client: SIF
Employer: Vattenfall

Location	SPB Hoboken
4SSE plan is read	☒
Inspection With Clients:	Yes
Client name(s):	Pim Olthof, Andrzej Prokowski
Verifying documentation available: Signed release notes, fabrication documentation	Yes

1 General

1.1 EWP is clean (Housekeeping) and free of damages	OK
1.2 Annulus closer plates are correctly installed	OK
1.3 Doubler plates (6x) are in place	OK
1.4 Lifting padeyes (4x) are correctly installed with 6 x M36 fixation bolts on each and free of damages	OK
1.5 Handrails are correctly installed and free of damages	OK
1.6 Kick plates are present, correctly installed and free of damages	OK
1.7 Stopper blocks (6x) are correctly installed(retracted) according to requirements, secured with 4 x M48 bolts incl. grp cover plates (3 x type 1 / 3 x type 2) and free of damages.	OK
1.8 Neoprene strips on stopper blocks (back side of the vertical section) are in place. One (1) strip on each block	OK

1.9 Davit crane is correctly installed, well oriented and free of damages OK

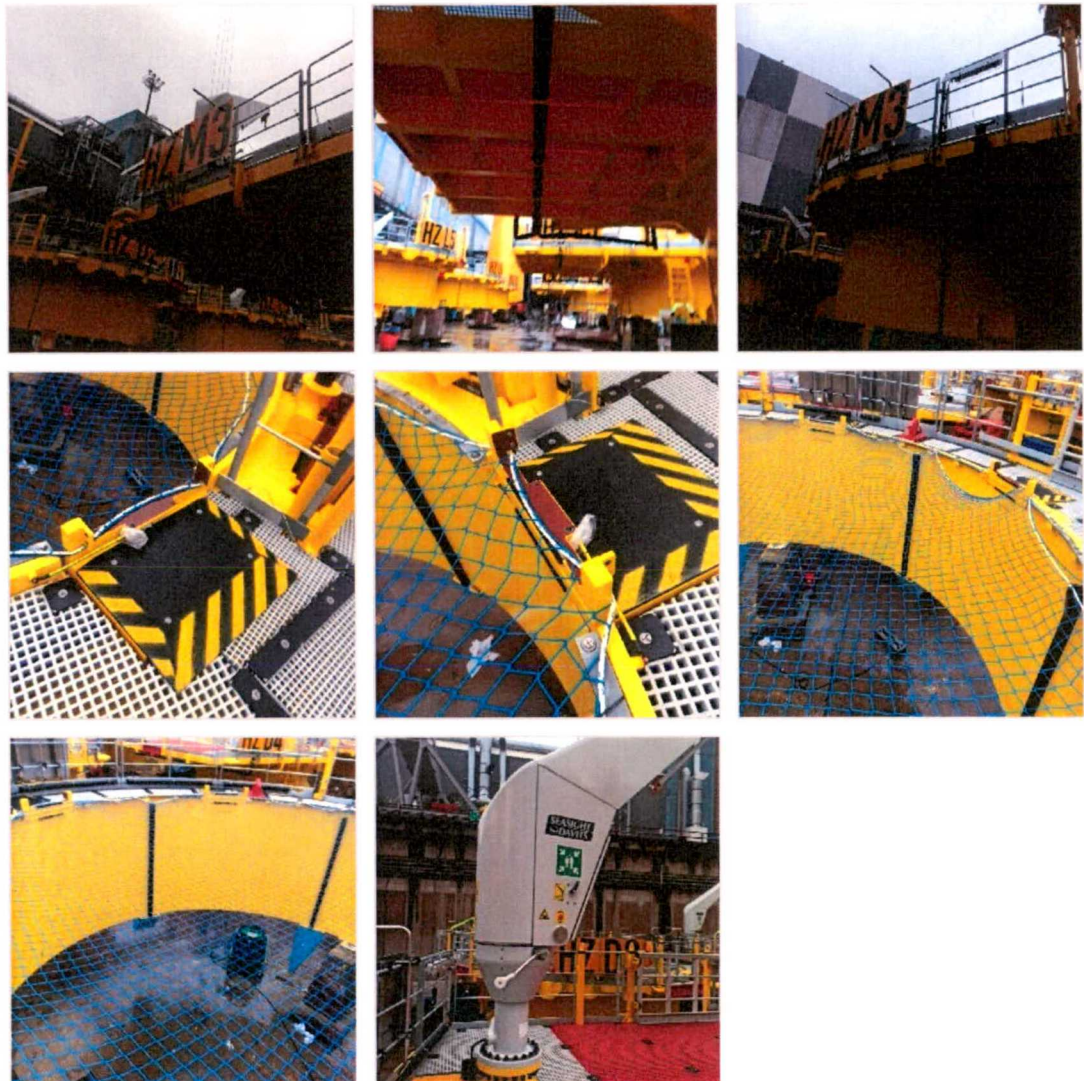
1.10 Signboards (6x) are correctly installed and free of damages. OK

1.11 D-glide material is correctly installed on short finger guides (4x) OK

1.12 D-glide material is correctly installed on long finger guides (2x) OK

Remarks:

Attachments:



2 Gratings

2.1 Grating are correctly installed incl. grating clamps and free of damages

2.2 Grating clamps are correctly fastened

2.3 Gratings have color areas according to requirements

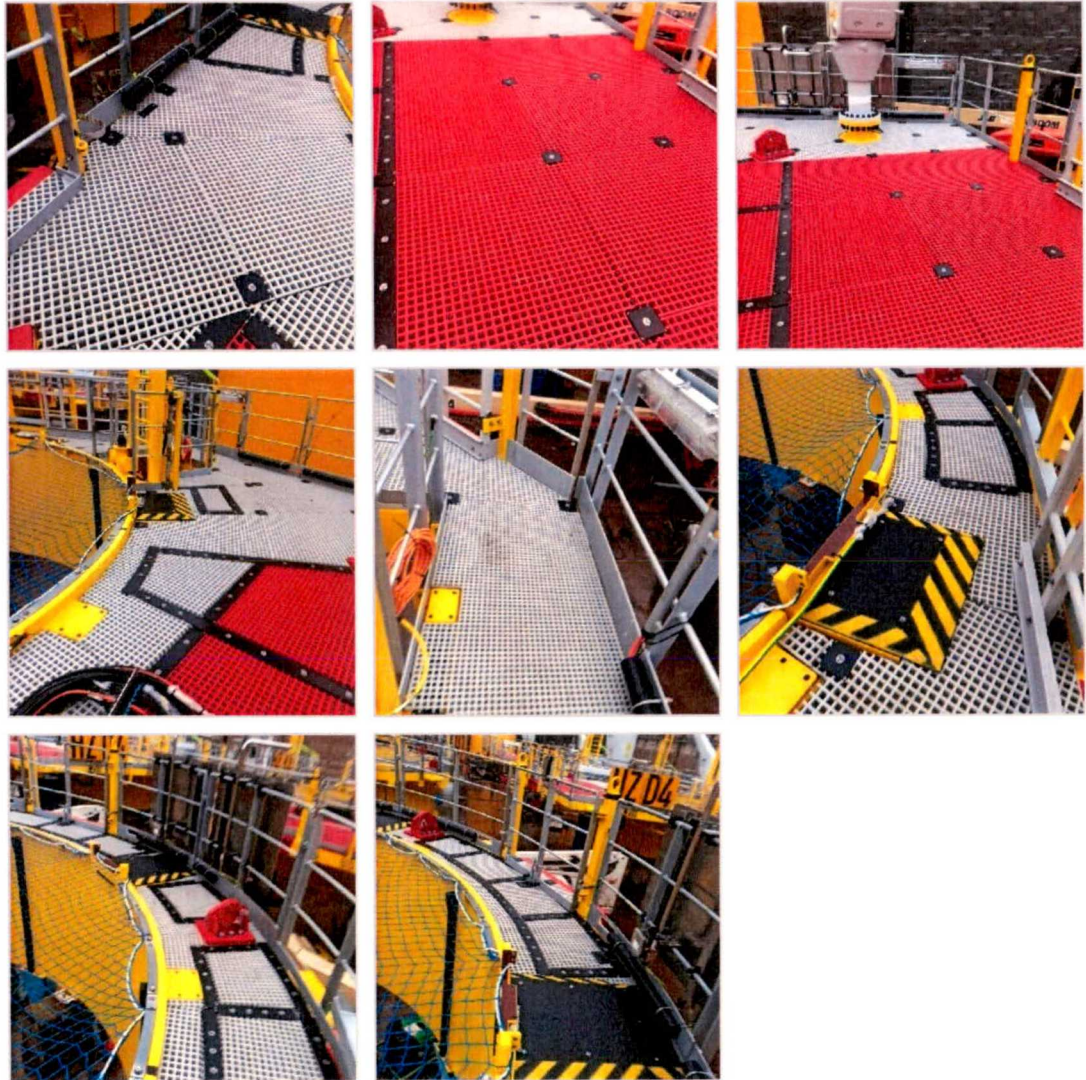
2.4 Anti-slip stickers are present on grating clamps

2.5 Removable grating is in place (2.5 Above BL fall arrest bar)

2.6 Wave-up runner plates are correctly installed and free of damages

Remarks:

Attachments:



3 Swing gate at access ladder

3.1 Hook-on points (2x) are present OK
on posts

3.2 Hinges (2x) are correctly OK
installed with locker pin and cotter
pin

3.3 Hinges (2x) eyebolts are correctly installed with double nut on each side OK

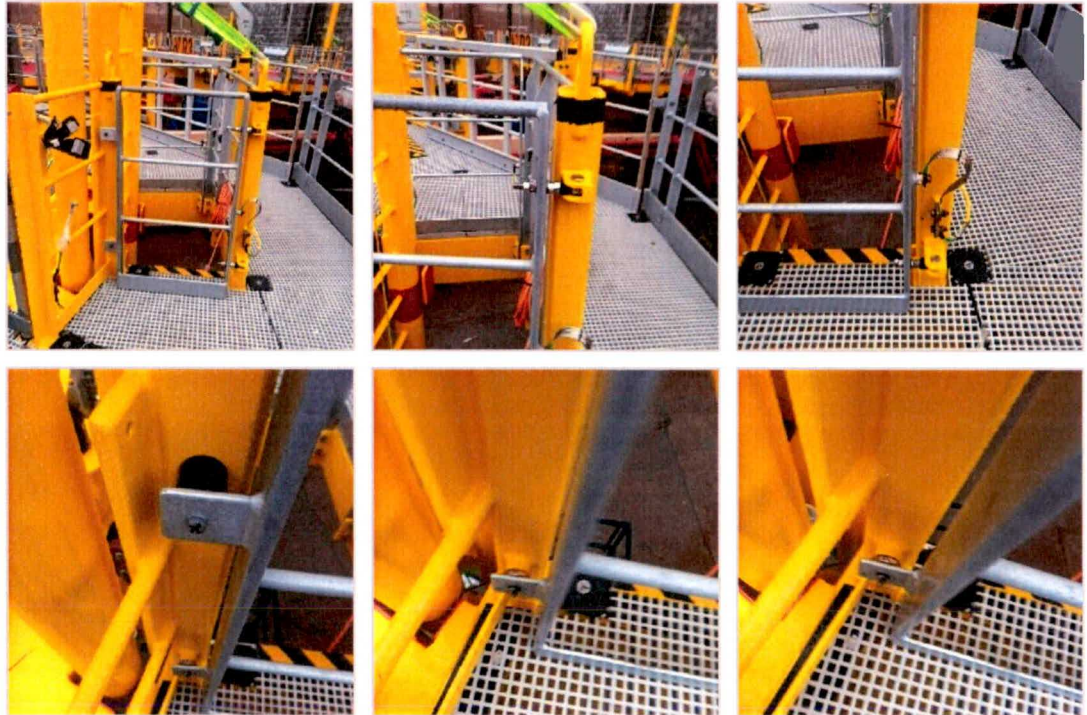
3.4 Rubber Stoppers (2x) are in place OK

3.5 Kick-plate is in place OK

3.6 Magnet correctly installed OK

Remarks:

Attachments:



4 Sliding gate at North-West

4.1 Hook-on points (2x) are present on posts OK

4.2 Sliding gate is correctly installed and free of damages OK

4.3 Guide rail is properly installed and free from sharp edges. OK

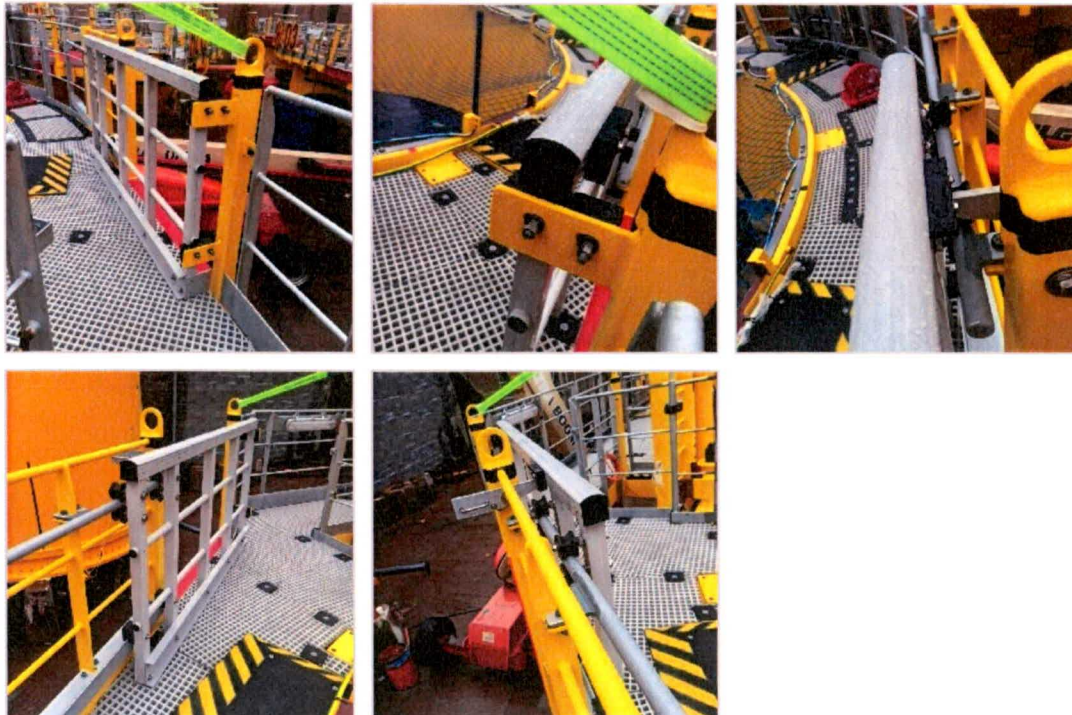
4.4 Sliding gate can be properly opened and closed OK

4.5 Handle plate is correctly bolted to post OK

4.6 Holder block is correctly installed OK

Remarks:

Attachments:



5 Double Swing gate West

5.1 Latch is correctly installed incl. locking pin, locking pin wires (2x), locking clip and fixation M10 bolt with HDPE shoulder/insulation washer and free of damages OK

5.2 3mm thk neoprene protection on underside of the latch is in place OK

5.3 Hook-on points (2x) are present on posts and free of damages OK

5.4 100 x 5Thk neoprene is present on swing gate handrail

5.5 Hinges (4x) are correctly installed with locker pin and cotter pin OK

5.6 Hinges (4x) eyebolts are correctly installed with double nut on each side OK

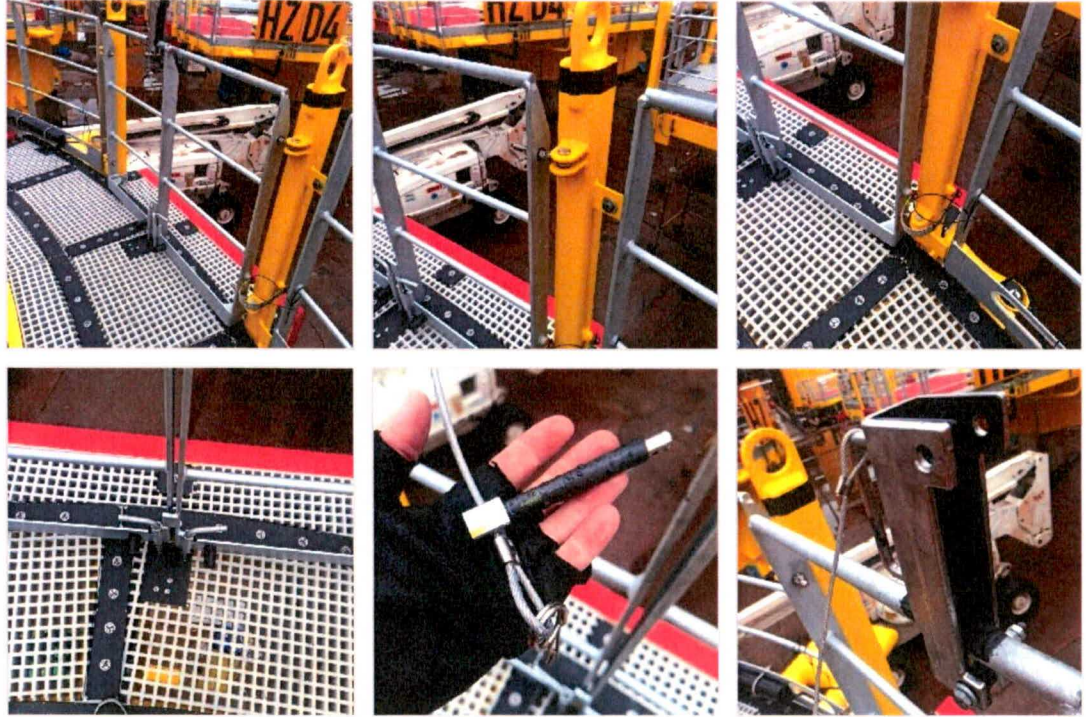
5.7 Rubber Stoppers (2x) are in place OK

5.8 Two (2) locking pins (bottom lock) are correctly installed incl. spring pin OK

5.9 Chequered plate is in place OK

Remarks:

Attachments:



6 Double Swing gate South

- | | |
|---|----|
| 6.1 Latch is correctly installed incl. locking pin, locking pin wires (2x), locking clip and fixation M10 bolt with HDPE shoulder/insulation washer and free of damages | OK |
| 6.2 3 thk neoprene protection on underside of the latch is in place | OK |
| 6.3 Hook-on points (2x) are present on posts and free of damages | OK |
| 6.4 100 x 5Thk neoprene is present on swing gate handrail | OK |
| 6.5 Hinges (4x) are correctly installed with locker pin and cotter pin | OK |
| 6.6 Hinges (4x) eyebolts are correctly installed with double nut on each side | OK |
| 6.7 Rubber Stoppers (2x) are in place | OK |
| 6.8 Two (2) locking pins (bottom lock) are correctly installed incl. spring pin | OK |
| 6.9 Chequered plate is in place | OK |

Remarks:

Attachments:



7 Sliding gate East

7.1 Hook-on points (2x) are present on posts OK

7.2 Sliding gate is correctly installed OK

7.3 Guide rail is correctly installed and free from sharp edges OK

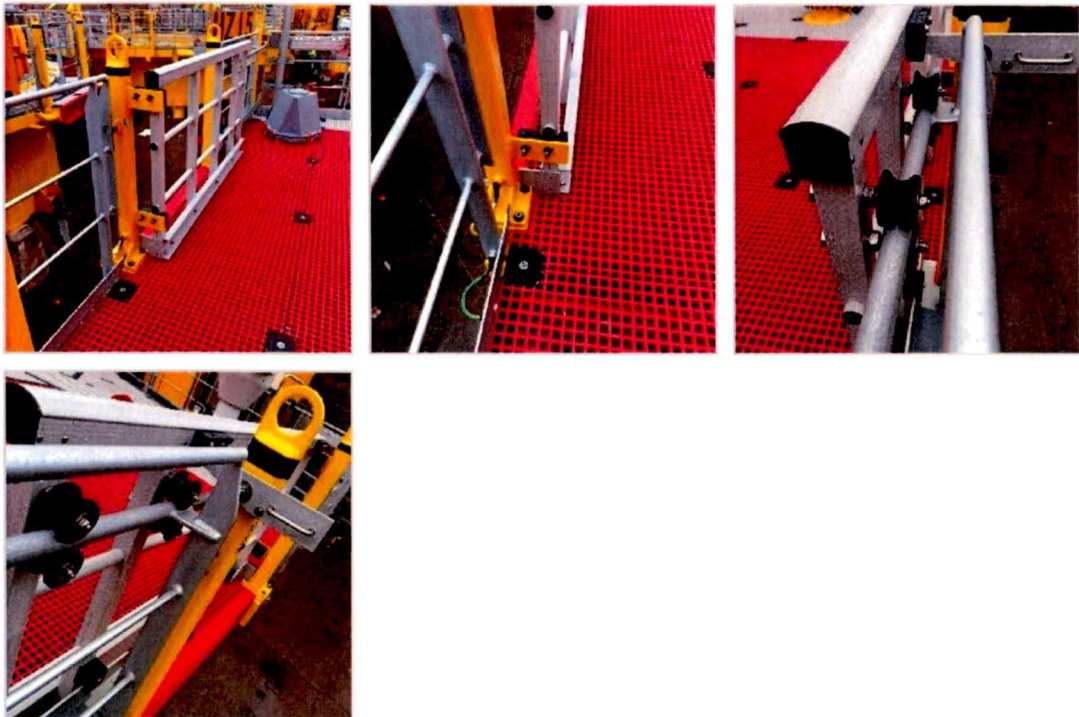
7.4 Sliding gate slides can be properly opened and closed OK

7.5 Handle plate is correctly bolted to post OK

7.6 Holder block is correctly installed OK

Remarks:

Attachments:



8 Access ladder

- | | |
|--|----|
| 8.1 Railings at Access ladder location are correctly installed and free of damages | OK |
| 8.2 Access ladder is correctly installed & fastened on transport position | OK |
| 8.3 Fall arrest system incl. SRL type 1, 15 m loop tether line and rung protector is pre-installed | OK |
| 8.4 5 Thk D-glide plates (3x) are correctly installed (glued) on the ladder installation guides (3x) | OK |
| 8.5 6 thk D-glide is correctly installed (glued) on upper ladder extra guide | OK |
| 8.6 6 Thk D-Glide strips (4x) are correctly installed (bolted) on upper ladder stabbing guides (2x) | OK |

Remarks:

Attachments:





9 Fall arrest BL

TYPE 2 - 25m

9.1 SRL is mounted on fall arrest bar under EWP removeable gratings OK

9.2 Fixed tether line with messenger wire is secured to EWP ratings OK

Remarks:

Attachments:



Punchlist / NCR applicable

Punch list attached? OK

NCR applicable? N/A

10 Closing

Parties acknowledge that these secondary steel structures (foundation appurtenances) have been manufactured/fabricated in accordance with the Subcontract

Yes

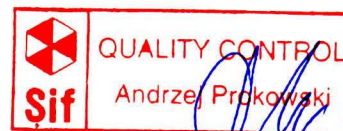
Remarks:

Attachments:

Signature Smulders

Signed by Ben Herygers
on 30 June, 2021 09:37
from Ben Herygers's device

Ben Herygers



02.06.2021

Reviewed/Witnessed/Approved by Client

Reviewed/Witnessed/Approved by Employer

02.06.2021

02-07-21

Punchlist mechanical

Created: 30-06-2021
Creator: Harvey Hade (@HHA)
Status: Engineering, Logistics, Mechanical,
Touch Up, Completed, Verified
Dates: 03-02-2021 - 30-06-2021

Recipients

ben.herygers@smulders.com,

Description

M3
Timeframe.: The punches will be solved before load out or days before the HAT

Categories

WP ~~X~~ - G1 (G1)

Hashtags

#client



OK hat
02-07-21

Remark TQ ~~126~~ 4126 = To Pending (Wooden box)
Remark = need some chamfer on the ladder
#1400 = To big gap on the finger quid

#1382 - Sharp edges

Completed | Kevin Kempis | EWP 15 - G1

Tags: #client

Created 25 06 2021 | Completed 28 06 2021

Task messages (time in CEST)

Ben Herygers Photo 1
Ben Herygers Sharp edges @Mechanical @kevin_kempis #client
Jens Daelemans Photo 2

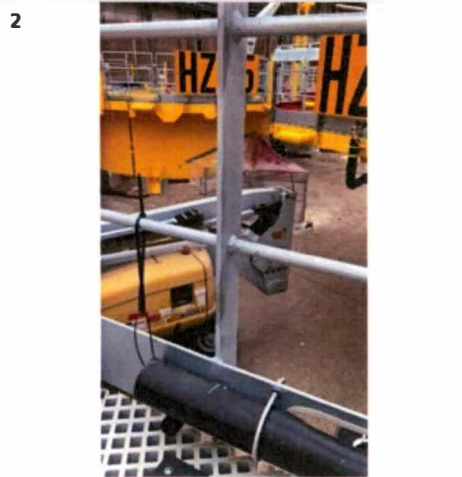
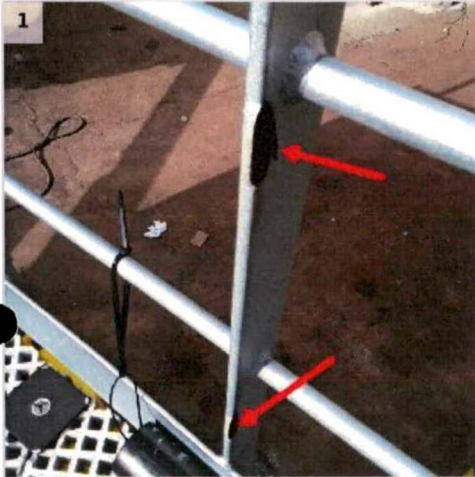


25 Jun 09:13

25 Jun 09:13

28 Jun 09:46

Photos



#1399 - Pipe not straight

Completed | Kevin Kempis | EWP 15 - G1

Tags: #client

Created 26 06 2021 | Completed 29 06 2021

Task messages (time in CEST)

Ben Herygers Photo 1
Ben Herygers Pipe not straight @Mechanical @kevin_kempis #client
Marcin Witkowski Photo 2



26 Jun 08:05

26 Jun 08:06

29 Jun 12:58

Photos



● #1400 - To big gap on the finger guide

Engineering | Kevin Kemps | EWP 15 - G1

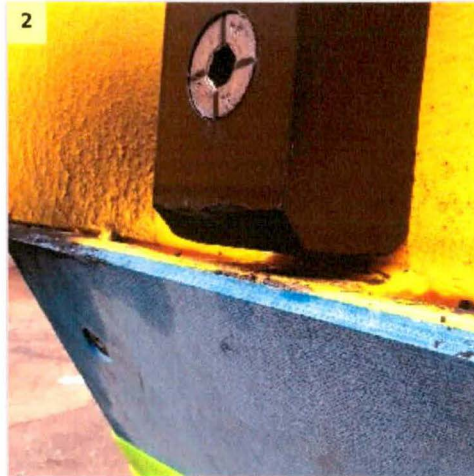
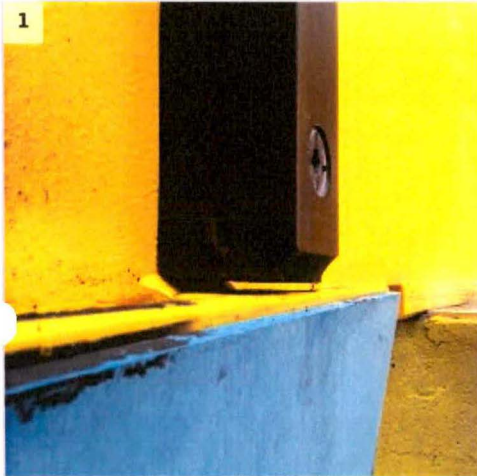
Tags: #client

Created 26 06 2021

Task messages (time in CEST)

Ben Herygers	Photo 1	26 Jun 08:06
Ben Herygers	Photo 2	26 Jun 08:07
Ben Herygers	To big gap on the finger guide @Mechanical #client @kevin_kemps	26 Jun 08:07

Photos



● #1401 - Needs better chamfer

Completed | Kevin Kemps | EWP 15 - G1

Tags: #client

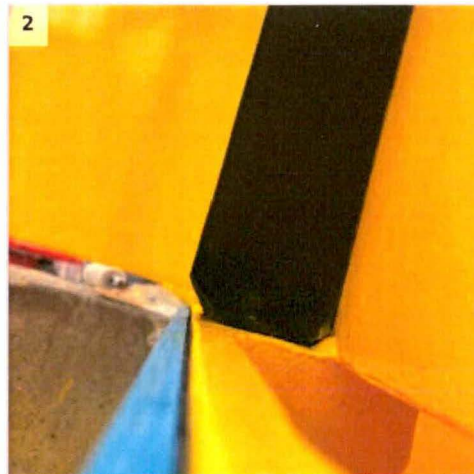
Created 26 06 2021 | Completed 29 06-2021

Task messages (time in CEST)

Ben Herygers	Photo 1	26 Jun 08:07
Ben Herygers	Needs better chamfer @Mechanical @kevin_kemps #client	26 Jun 08:08
Marcin Witkowski	Photo 2	29 Jun 13:31



Photos



● #1402 - Plate needs more adjustment (better in the middle)

Completed | Kevin Kemps | EWP 15 - G 1

Tags: #client

Created 26 06 2021 | Completed 29 06 2021

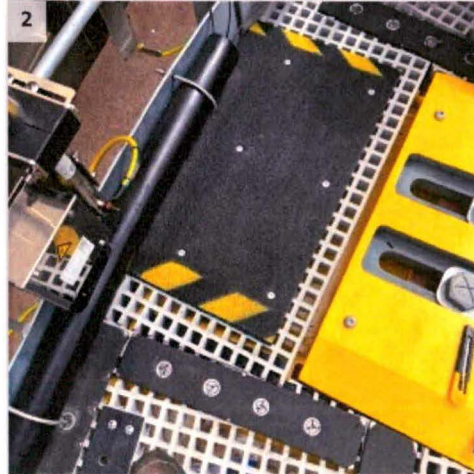
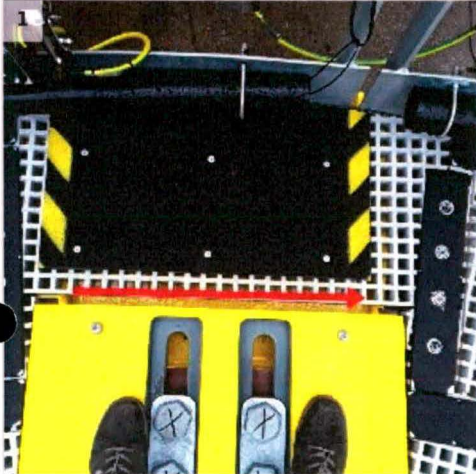
Task messages (time in CEST)

Ben Herygers	Photo 1	26 Jun 08:15
Ben Herygers	Plate needs more adjustment (better in the middle) @Mechanical @kevin_kemps #client	26 Jun 08:16
Marcin Witkowski	Photo 2	29 Jun 12:05



[Signature]

Photos



● #1403 - Coating missing

Completed | Ilchan Chanko | EWP 15 - G 1

Tags: #client

Created 26 06 2021 | Completed 28 06 2021

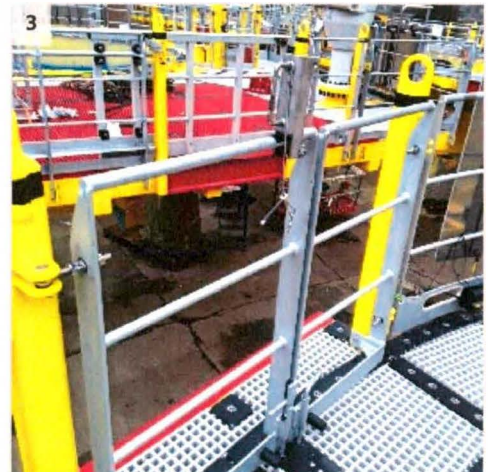
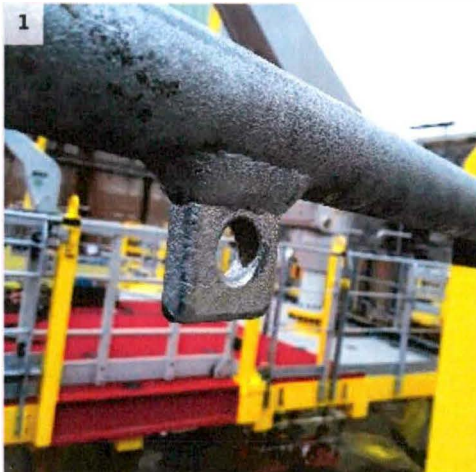
Task messages (time in CEST)

Ben Herygers	Photo 1	26 Jun 08:25
Ben Herygers	Photo 2	26 Jun 08:25
Ben Herygers	Photo 3	26 Jun 08:25
Ben Herygers	Coating missing @TouchUp @ilchan_chanko #client	26 Jun 08:26
Ilchan Chanko	Photo 4	28 Jun 11:41
Ilchan Chanko	Photo 5	28 Jun 11:41



[Signature]

Photos



Punchlist mechanical

pg. 4

Created with Fieldwire on 30-06-2021



● **#1404 - Video missing for the double gate**

Verified | Dawid Kaminski | EWP 15 - G1

Tags: #1509, #client

Created 26 06 2021 | Completed 29 06 2021 | Verified 30 06 2021

Task messages (time in CEST)

Ben Herygers	Photo 1	
Ben Herygers	Photo 2	
Ben Herygers	Video missing for the double gate @Mechanical @dawid_kaminski @kevin_kemps #client	
Ben Herygers	For opening from the gate	
Marcin Witkowski	Check task #1509	



Signature

26 Jun 08:27

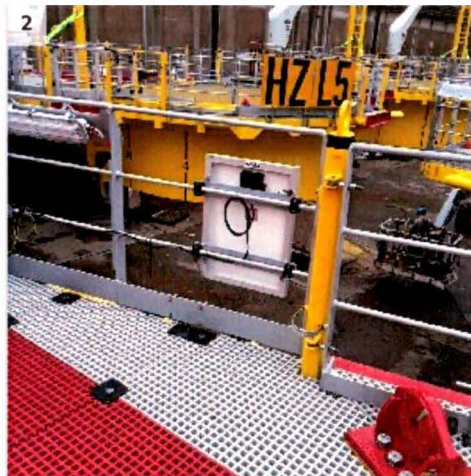
26 Jun 08:27

26 Jun 08:27

26 Jun 08:28

29 Jun 12:39

Photos



25220-GEN-RE05-XXX_04 - EWP - Electrical Release Note Rev 4 #12

Description	EWP HZ-G1
Status	Completed
Assignee	Frans Van der Wee (FVA)
Date	01-07-2021

Final Checklist Electrical - External Working Platfom

Location	SPB Hoboken
HSSE plan is read	☒
Inspection with Client:	Yes
Client Name(s):	Andrzej Prokowski Pim Olthof
Latest revisions drawings are checked before start of inspection:	☒

1. General

Remarks:

1.1 Functional test has been performed, signed and found acceptable

Doc Nr. 25220-GEN-PR01_02_ElectricalPackage-Sat
Doc Nr. 25220-GEN-RE00-(xxx)_02_ElectricalPackage-SatReport-EWP

Status OK

Remarks:

Attachments:

2. External Work Platform

Remarks:

Tag plate / ID-board



2.1 Earthing & bonding cables

Doc. Nr. 25220-ENB-PR00_02_EarthingBonding-ITP

Earthing & bonding cables correctly installed & adequately supported, free of damages, scotchkote applied on connections where needed
Check shrink sleeve correctly applied and correct identification colour (Black for normal G/Y cable & G/Y for braided earth cables).
Check cable termination lugs are correctly crimped and correct size according to cable cross section.

Cables are provided with ID labels

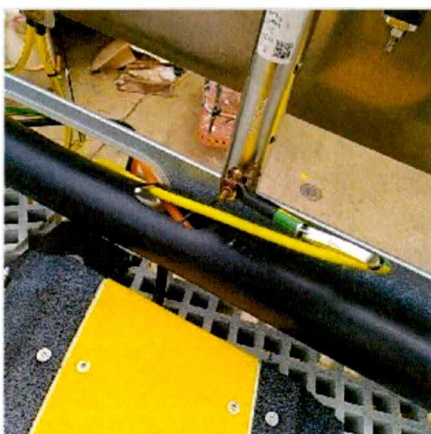
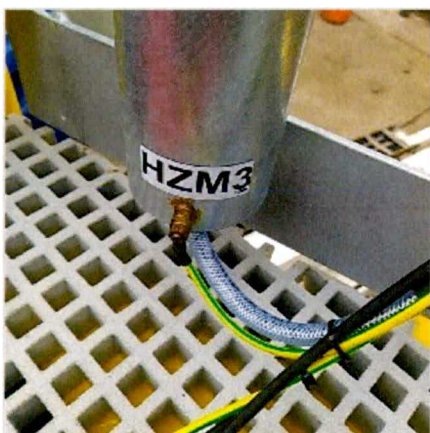
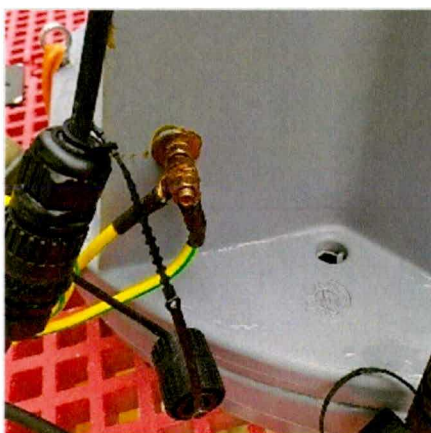
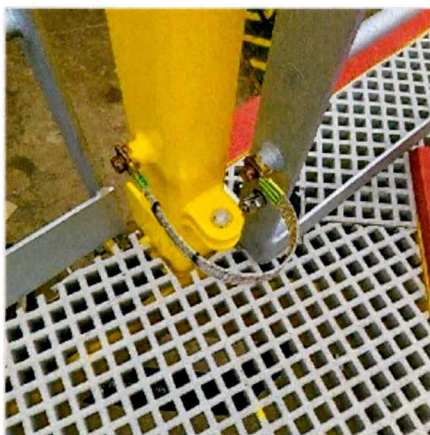
All those checks are verified and recorded in the SAT reports:

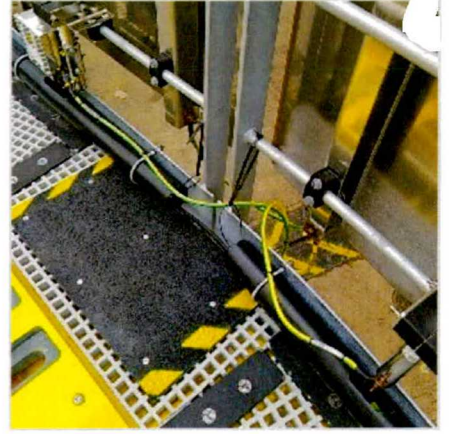
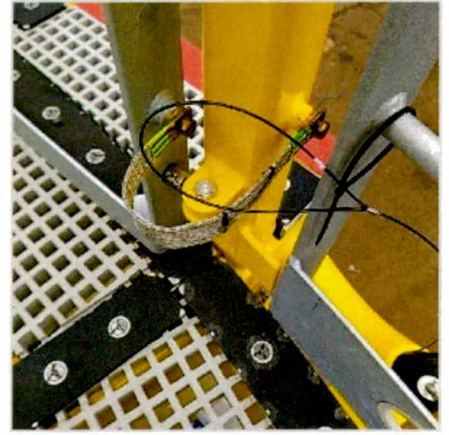
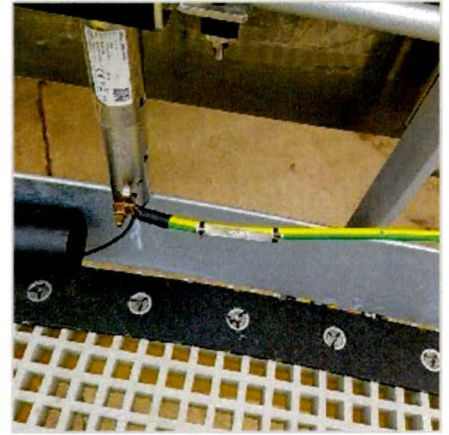
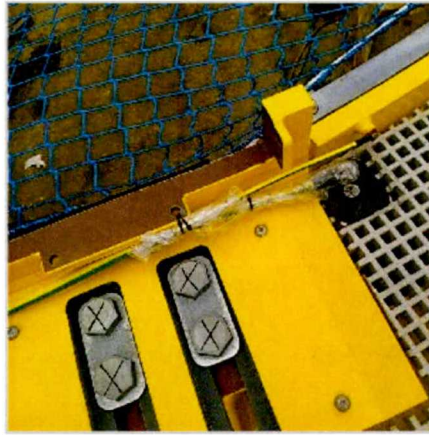
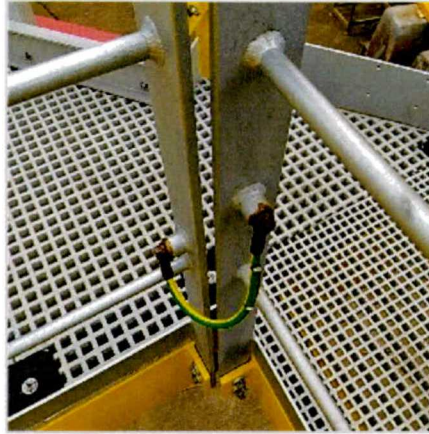
Doc.Nr. 25220-ENB-RE02-(xxx)_01_EarthingBondingVisualInspection-SatReport-EWP

Status OK

Remarks:

Attachments:





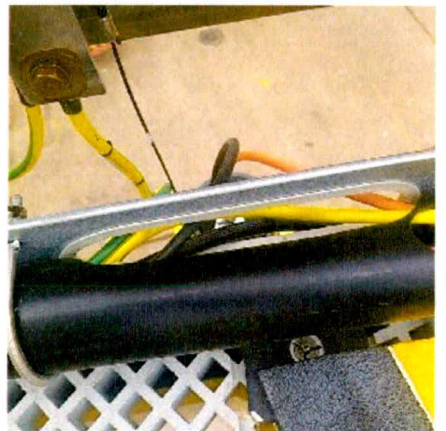
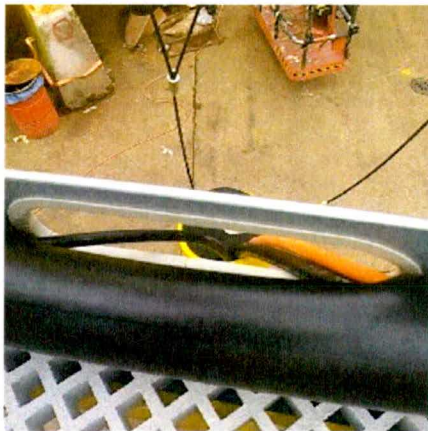
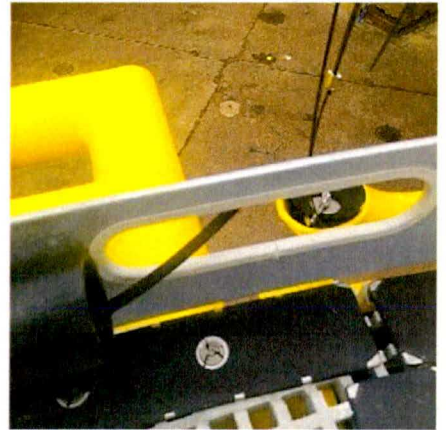


2.2 The path of cables are free of sharp edges

Status OK

marks:

Attachments:





2.3 Power and signal cables

Doc. Nr. 25220-CBL-PR00_01_LvCables-ITP

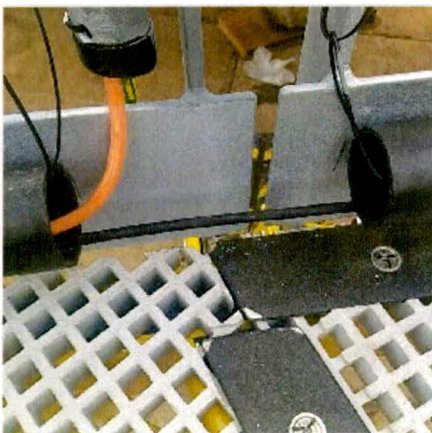
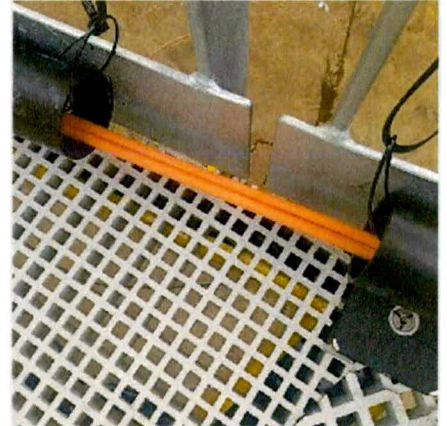
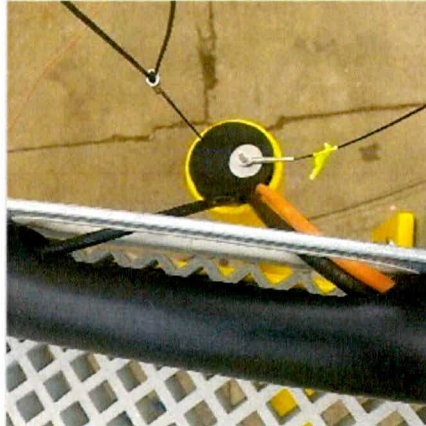
Correct selection of cable glands and routing / dressing of cables correct and free of damages. Cables are provided with ID labels

able tests and visual inspection of the cable are recorded in the following protocols:
25220-CBL-RE05-(xxx)_01_LvCablesInsulationTest-SatReport-EWP
25220-CBL-RE08-(xxx)_01_LvCablesContinuityTest-SatReport-EWP

Status OK

Remarks:

Attachments:



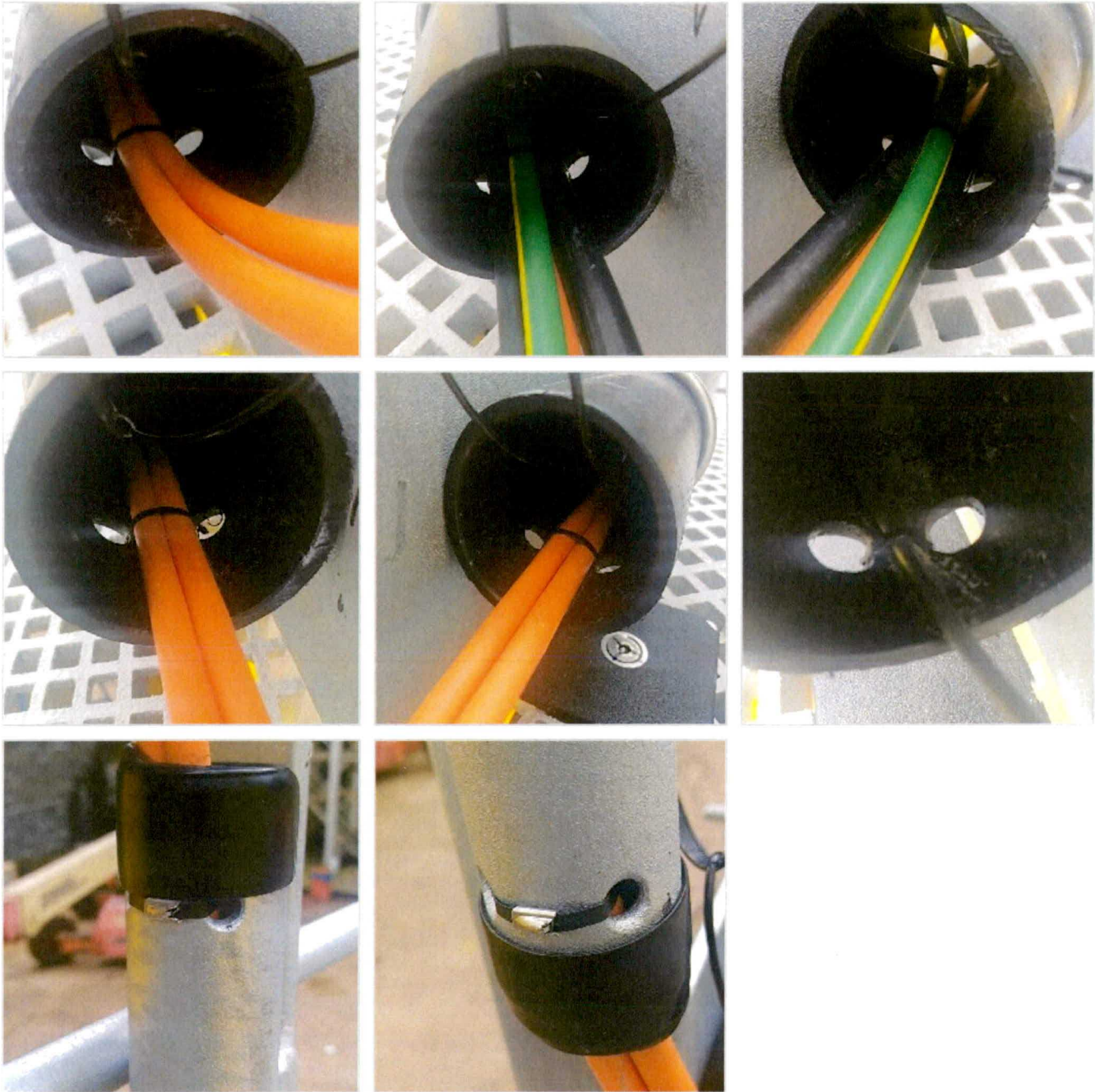
2.4 SS-Coated tie wraps are used

At the ends of cable pipes and every 300mm in cable trays (if applicable), maximum free span is respected.

Status OK

Remarks: Single cable from ID-Lights position 3, can be attached with plastic cable-ties.

Attachments:



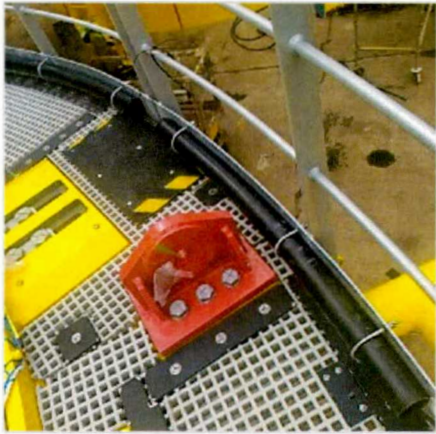
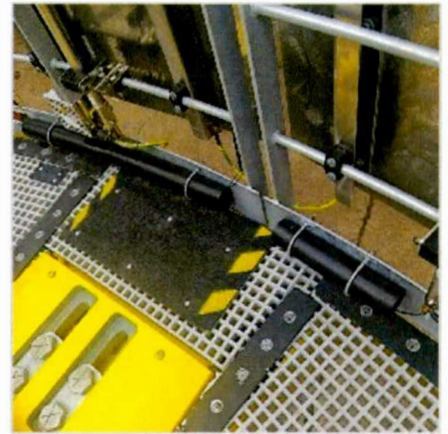
2.5 Cable trays & pipe's correctly installed & adequately supported

Edge protection applied if required

Status OK

Remarks:

Attachments:

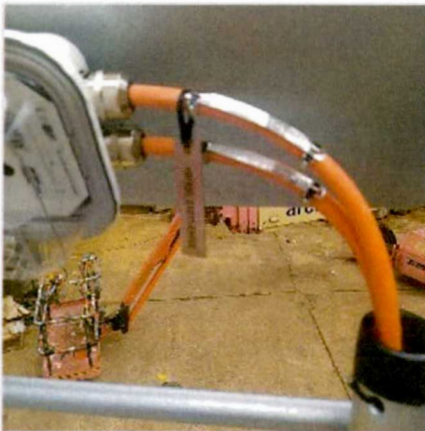


2.6 Bending radius on cables accepted & drip loops are present.

Status OK

Remarks:

Attachments:





2.7 Cable terminations

Cable connections carry out correctly, conductor markers present (Conductors ID by markers or color code) & earthing lug is available and connected (PE) (if required).

Status OK

Remarks:

Attachments:



2.8 Normal Light Fixture 1 =BFA50_EA011-EA001

Correctly installed & adequately supported, free of damages, connected and glands are tightened.
RDS-PP labels are in place for equipment and cables, correct configuration off fixation bolt & washers are used and free of condensed water inside.

Status OK

RDS-PP label Correct OK

Remarks:

Attachments:



2.9 Normal Light Fixture 2 =BFA50_EA011-EA002

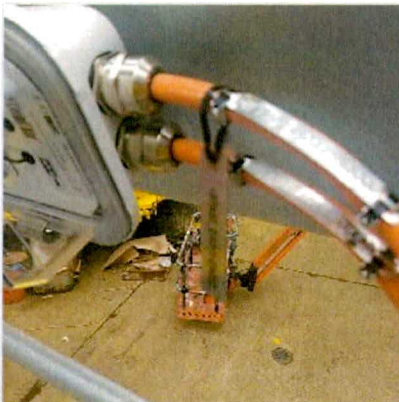
Correctly installed & adequately supported, free of damages, connected and glands are tightened.
RDS-PP labels are in place for equipment and cables, correct configuration off fixation bolt & washers are used and free of condensed water inside.

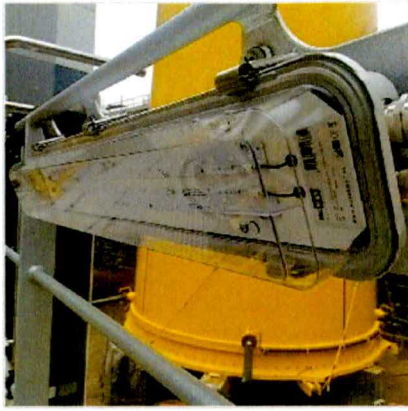
Status OK

RDS-PP label Correct OK

Remarks:

Attachments:





2.10 Normal Light Fixture 3 =BFA50_EA011-EA003

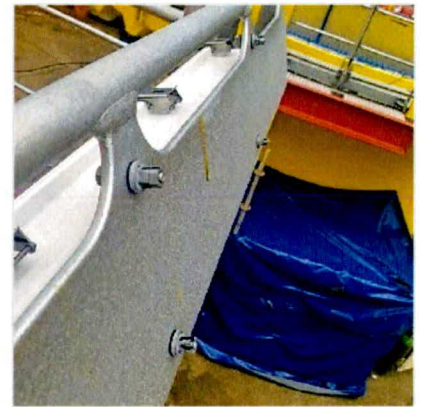
Correctly installed & adequately supported, free of damages, connected and glands are tightened.
RDS-PP labels are in place for equipment and cables, correct configuration off fixation bolt & washers are used and free of condensed water inside.

Status OK

RDS-PP label Correct OK

Remarks:

Attachments:



2.11 Normal Light Fixture 4 =BFA50_EA011-EA004

Correctly installed & adequately supported, free of damages, connected and glands are tightened.

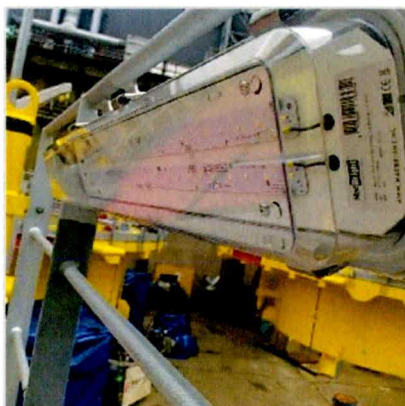
RDS-PP labels are in place for equipment and cables, correct configuration off fixation bolt & washers are used and free of condensed water inside.

Status OK

RDS-PP label Correct OK

Remarks:

Attachments:



.2 ID Lights incl. Junction box

=XSD20_EA011-EA001, =XSD20_EA012-EA001, =XSD20_EA013-EA001, (=XSD20_EA014-EA001 only on H4)

Correctly installed & adequately supported, free of damages, connected, glands are tightened and RDS-PP labels are in place for equipment and cables.

Status OK

RDS-PP label Correct OK

Remarks:

Attachments:



2.13 CCTV =CKC51-BX0(xx)

Correctly installed & adequately supported, free of damages, connected, glands are tightened, angle is checked and RDS-PP labels are in place for equipment and cable.

Position 1: Only relevant at EWPs: F1-B1-J2-W1-X3

Position 2: Only relevant at EWPs: Y4

Position 3: Only relevant at EWPs: L2 - O2

Status N/A

RDS-PP label Correct

Remarks:

Attachments:

2.14 2 or 5 NM lantern

Correctly installed & adequately supported, free of damages, connected, no condensed water inside, glands are tightened and RDS-PP labels on cables are in place.

2NM Only relevant at EWP's: F6-A4-E2-D5-B6-J5-H4-R4-R1-O3-S5-U2-U4-U6-W3-X5

5NM Only relevant at EWP's: F4-A5-E4-D6-C6-B3-B5-K6-G6-R6-P5-O5-S2-U1-V6-X1-X2-X6-W5-W2

Status N/A

RDS-PP label Correct

Remarks:

Attachments:

2.15 Visibility Meter

Correctly installed & adequately supported, free of damages, connected, no condensed water inside, glands are tightened and RDS-PP labels on cables are in place.

Only relevant at EWPs: F4-A5-E4-D6-C6-B3-B5-K6-R6-P5-R1-O5-S2-U1-U4-V6-X1-X2-X6-W5-W2-G6

Status N/A

j-PP label Correct

Remarks:

Attachments:

2.16 Fog horn

Correctly installed & adequately supported, free of damages, connected, no condensed water inside, glands are tightened and RDS-PP labels are in place for cables.

Position 1=XSD20 EA031 Only relevant at TP's: A5-E4-D6-B3-B5-X1-X2-X6-W5

Position 2 =XSD20 EA041 Only relevant at TP's: F4-K6-G6-P5-O5

Position 3 =XSD20 EA041 Only relevant at TP's: C6-R6-R1-S2-U1-U4-V6-W2

Status N/A

RDS-PP label Correct

Remarks:

Attachments:

2.17 Cable of Wave Radar present and sealed off with end cap

Correctly installed & adequately supported, free of damages and RDS-PP labels are in place for cables.

Only relevant at EWPs: P5-Z2-W5

Status N/A

RDS-PP label Correct

Remarks:

Attachments:

2.18 Nautical Radar, Control panel & Switch

Correctly installed & adequately supported, free of damages, connected, glands tightened and RDS-PP labels are in place for equipment and cables.

Only relevant at EWPs: B3-H4

Nautical Radar =XSD20_TF001-TF001, Control panel =XSD20_KF001-TK001 & Switch =XSD20_TF001-SF001

Status N/A

RDS-PP label Correct

Remarks:

Attachments:

2.19 Davit crane =XMM13_MZ001

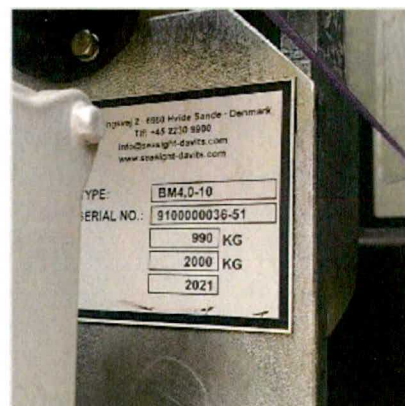
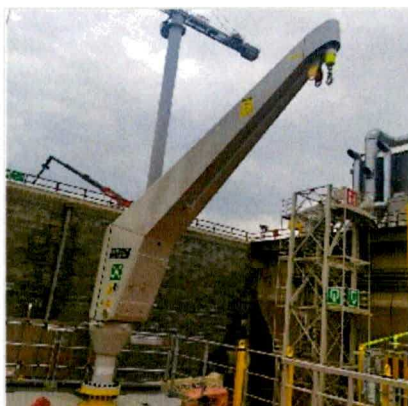
Correctly installed according the drawing & adequately supported
Check that cable end is sealed with end cap.

Status OK

RDS-PP label Correct OK with remarks

Remarks: RDS-PP label Davit Crane =XMM13

Attachments:



2.20 Check

Check that no stress is applied to the equipment terminals or glands due to inadequate support of cables, and that cables enter glands straight.

Status OK

Remarks:

Attachments:

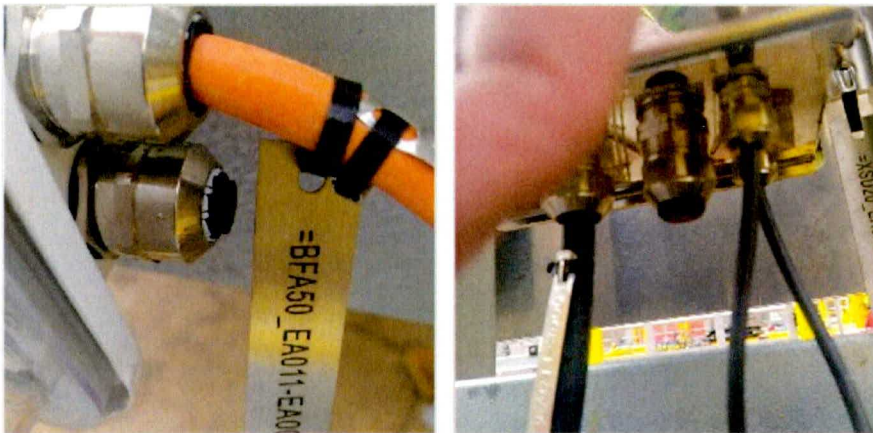


2.21 Blind plugs are used when glands are not in use.

Status OK

Remarks:

Attachments:



2.22 Over-length applied on cables where applicable and stored correctly

=XMM13_MZ001-WD001: To be cut on length at MV II - to be checked in hoboken if cable is long enough (Roxtec: 2,5m -2,7m / WTG: min 3,8m)

All cables from tubes grating level to rectangular roxtec: 2,5m - 2,7m

Over-length ICCP cables on WTG side: 4,8m - 5m

- =XQA11_FZ011-WD001 / =XQA11_FZ012-WD001 / =XQA11_FZ013-WD001 / =XQA11_FZ011-WG001 / =XQA11_FZ012-WG001

Over-length CCTV & Wave radar cable (if applicable): 3,8m - 4m

- =CKC51_BX0xx-WG001 / =CKJ30_UC001-WG001

Over-length Nautical radar power cable (if applicable), lights & ID lights: 3,5m - 3,7m

- =XSD20-KF001-WD001 / =BFA50_EA011-WD001 / =XSD20_EA011-WD001

Over-length Marine Lights cables (if applicable): 4,6m - 4,8m

- =XSD20_EA011-WD001 / =XSD20_EA012-WD001 / =XSD20_EA013-WD001 / =XSD10_BQ001-WD001 / =XSD20_PJ001-WD001

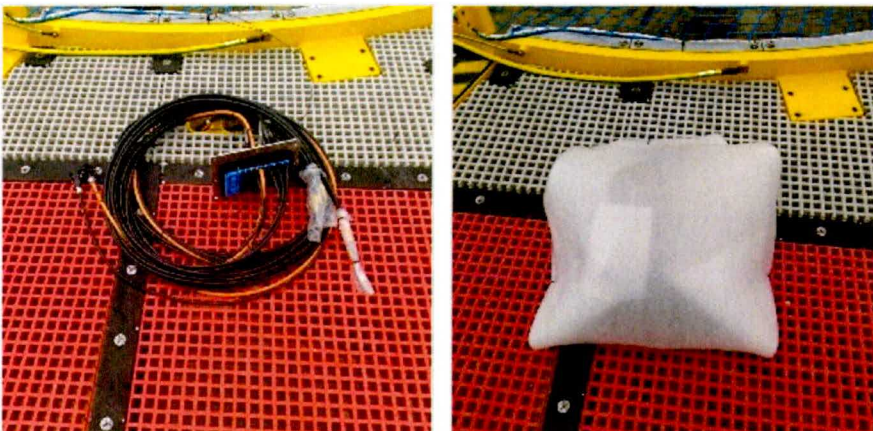
Over-length FO cable (if applicable): 25,5m - 25,7m

- =XSD20_KF001-WH001

JS OK with remarks

Remarks: TQ 4126 regarding storage is pending.

Attachments:



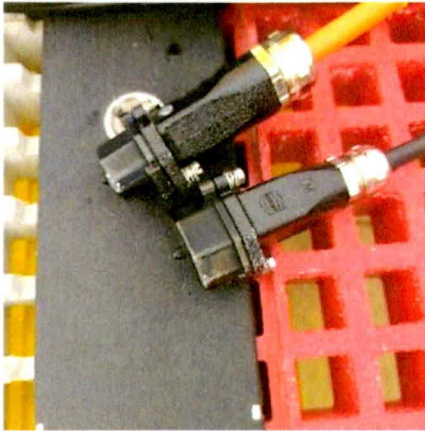
2.23 All interface cables are sealed with end caps or sealed with Harting cover

=XMM13_MZ001-WD001: Harting plug will be installed at MV II by Crane Supplier, end cap to be installed in Hoboken
The cables for Navigation Aids & ICCP requires an end cap
All other interface cable requires a Harting cover

Status OK

Remarks:

Attachments:

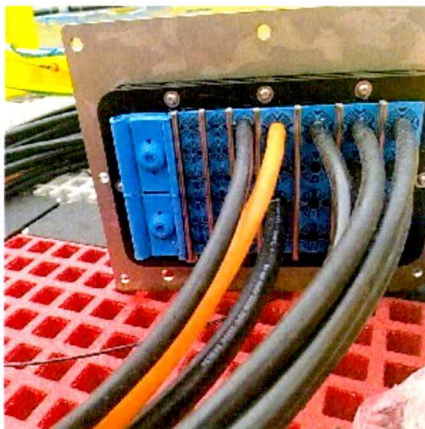
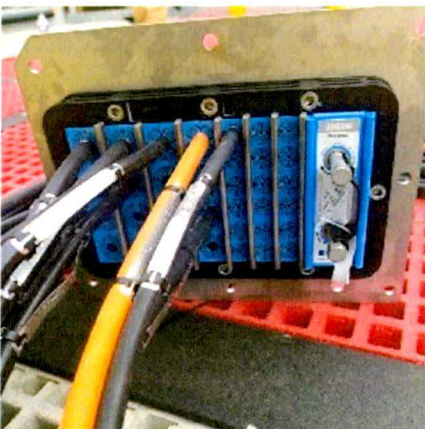


24 All interface cables pulled through roxtec and roxtec is correctly sealed

Status OK

Remarks:

Attachments:

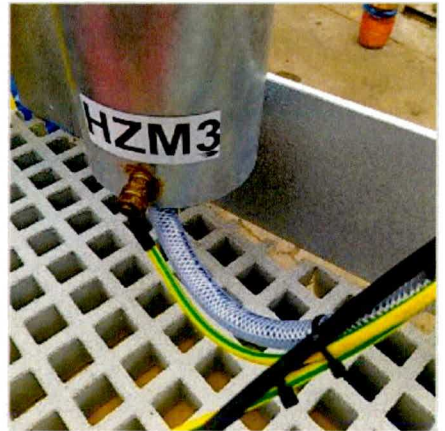
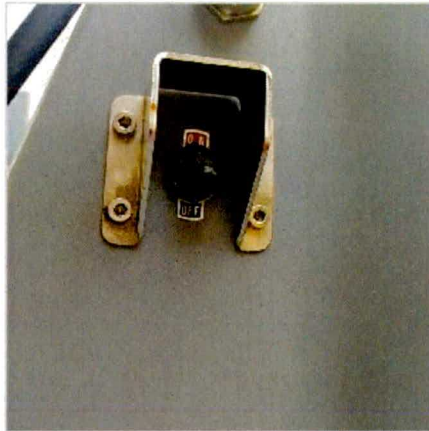
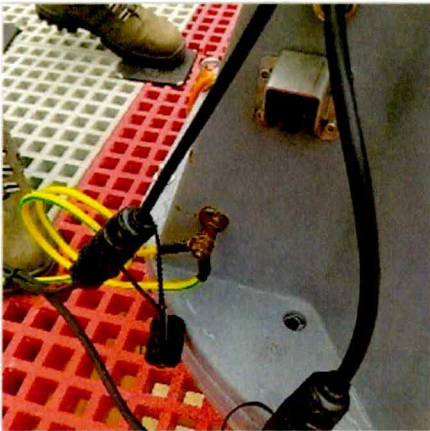


2.25 Temporary Navigation Aids present, seafastened & earthed

Status OK

Remarks:

Attachments:



2.26 Storage of ICCP cables nearby BL

All cables are correctly stored with S-hook and over-length applied on ICCP cables on ICCP protection box side, cable ends sealed with plastic bag or Harting cover.

Overlength measured from tube :

Ref cell cables: 0,5m - 0,7m

- =XQA11_FZ011-WG001 / =XQA11_FZ012-WG001

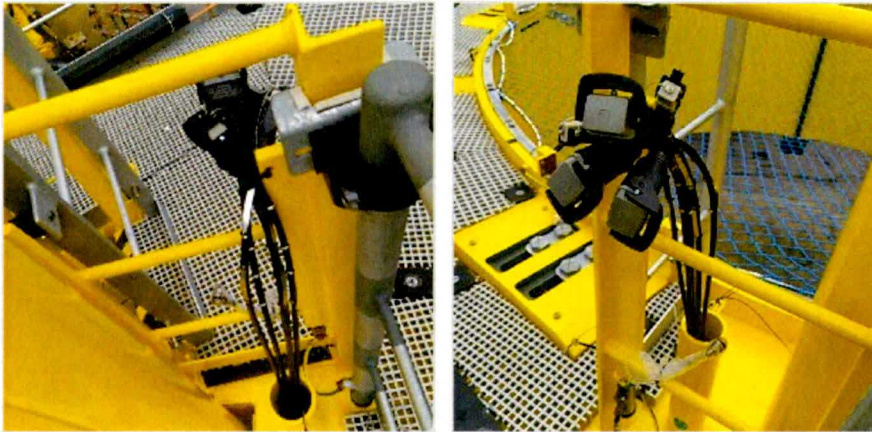
Anode cables: 0,5m - 0,7m

- =XQA11_FZ011-WD001 / =XQA11_FZ012-WD001 / =XQA11_FZ013-WD001

Status OK

Remarks:

Attachments:



27 Messenger wire

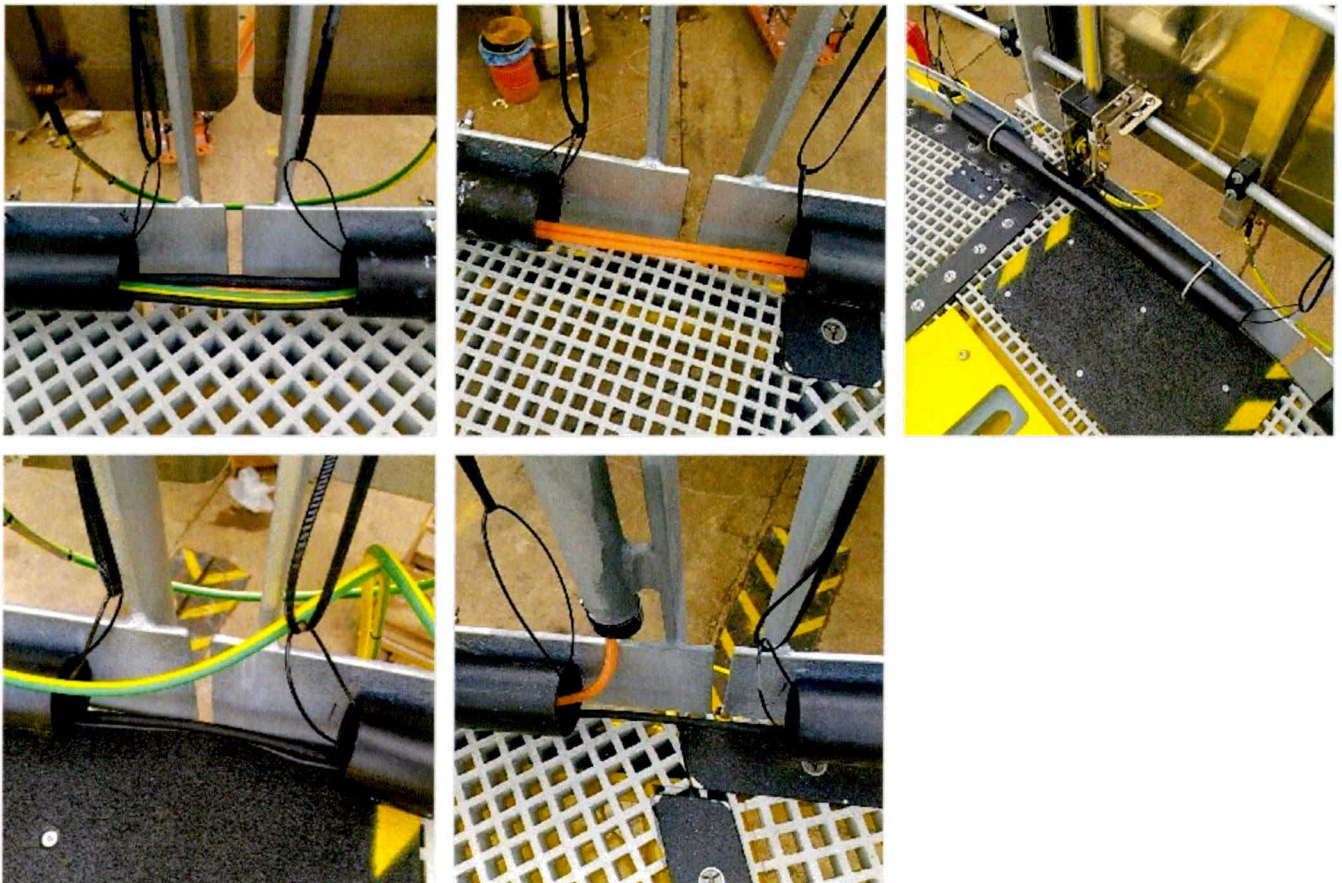
On all cable tubes longer than 0,5m is a messenger wire installed according to the drawing 25220-1921-01-E_02=55-EWP-AssemblyOverview-Cable Containment.

The tube along the upper ladder has a rope as messenger wire with on the bottom end a carabiner hook installed and secured to tube with plastic tie wrap, over-length on top is +/-4m.

Status OK

remarks:

Attachments:



3 Closing

Status OK

Remarks:

Attachments:

Punchlist / NCR's.

Punchlist attached? Yes

NCR applicable? No

Signature Smulders

Signed by Frans Van der Wee
on 01 July, 2021 12:20
from Frans Van der Wee's device

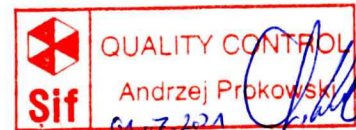
Frans Van der Wee

☐ For Review / ☒ For approval
01. 07. 2021
Frans Van Der Wee QC Inspector 

Reviewed/Witnessed/Approved by Client

Signed by Andrzej Prokowski
on 01 July, 2021 12:20
from Frans Van der Wee's device

Andrzej Prokowski



Reviewed/Witnessed/Approved by Employer

Signed by Pim Olthof
on 01 July, 2021 12:22
from Frans Van der Wee's device

Pim Olthof

Pim Olthof
01-07-21

Punchlist Electrical

Created: 07-01-2021
Creator: sam Dierckxsens (@SDI)
Status: Engineering, Logistics, Mechanical,
Electrical, Touch Up
Dates: 02-03-2021 - 07-01-2021

Recipients

Description

EWP HZ-G1

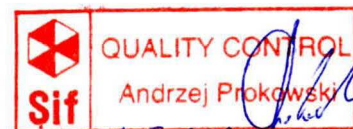
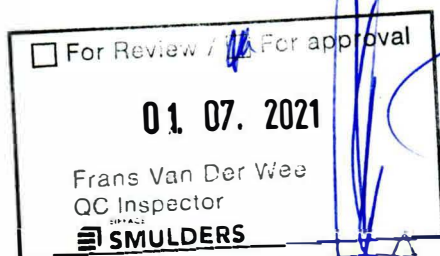
No Punch items on the Punch List.

Categories

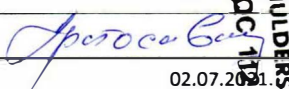
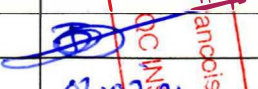
EWP 15 - G1 (G1)

Hashtags

#release-inspection-electrical

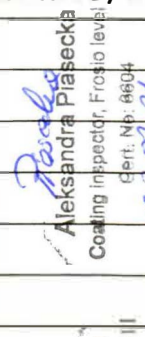
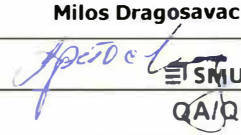
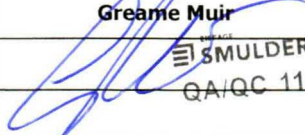
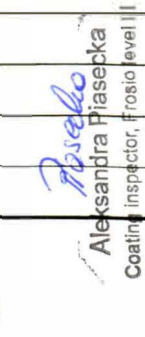
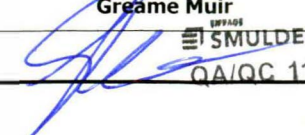


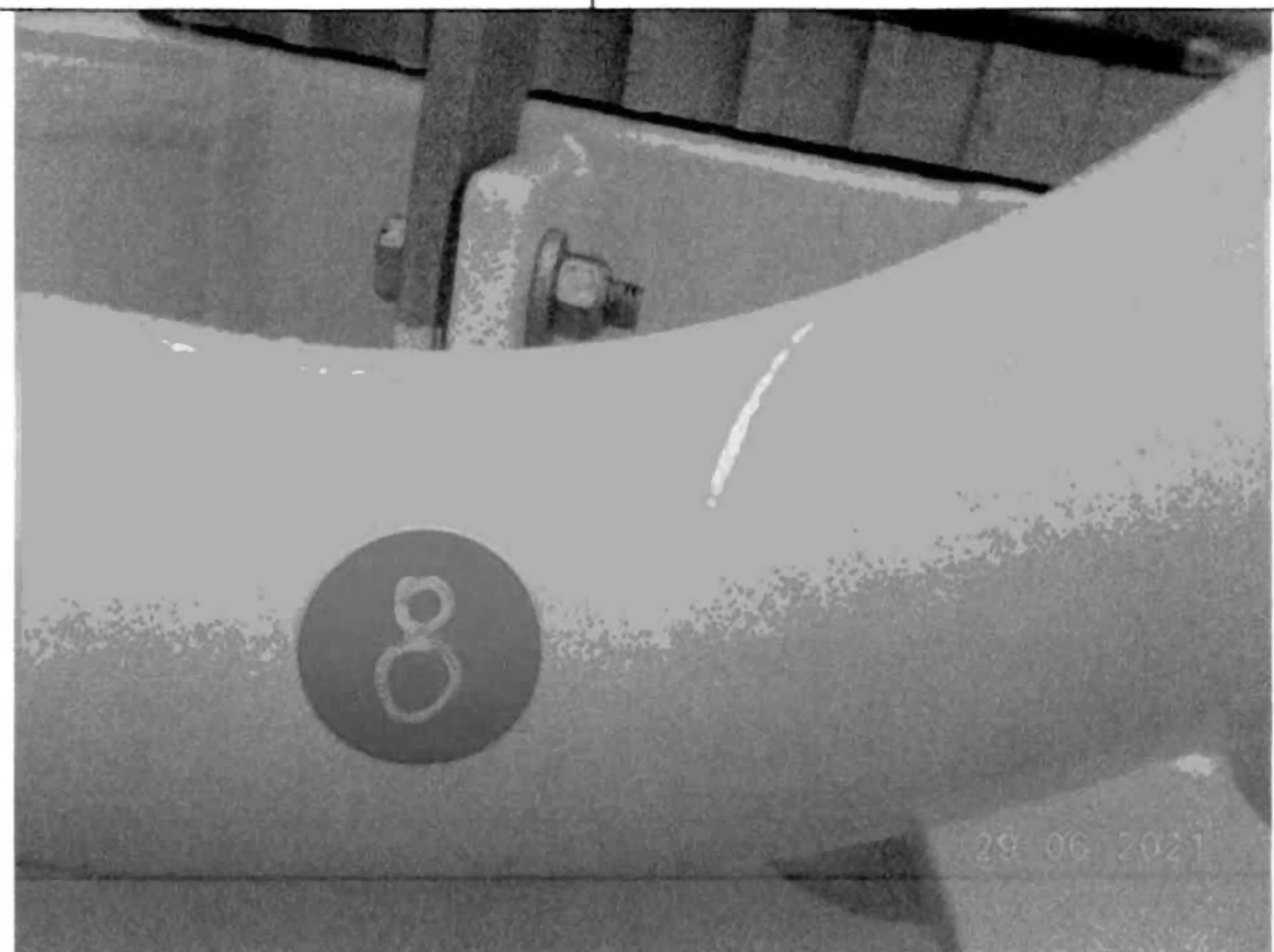
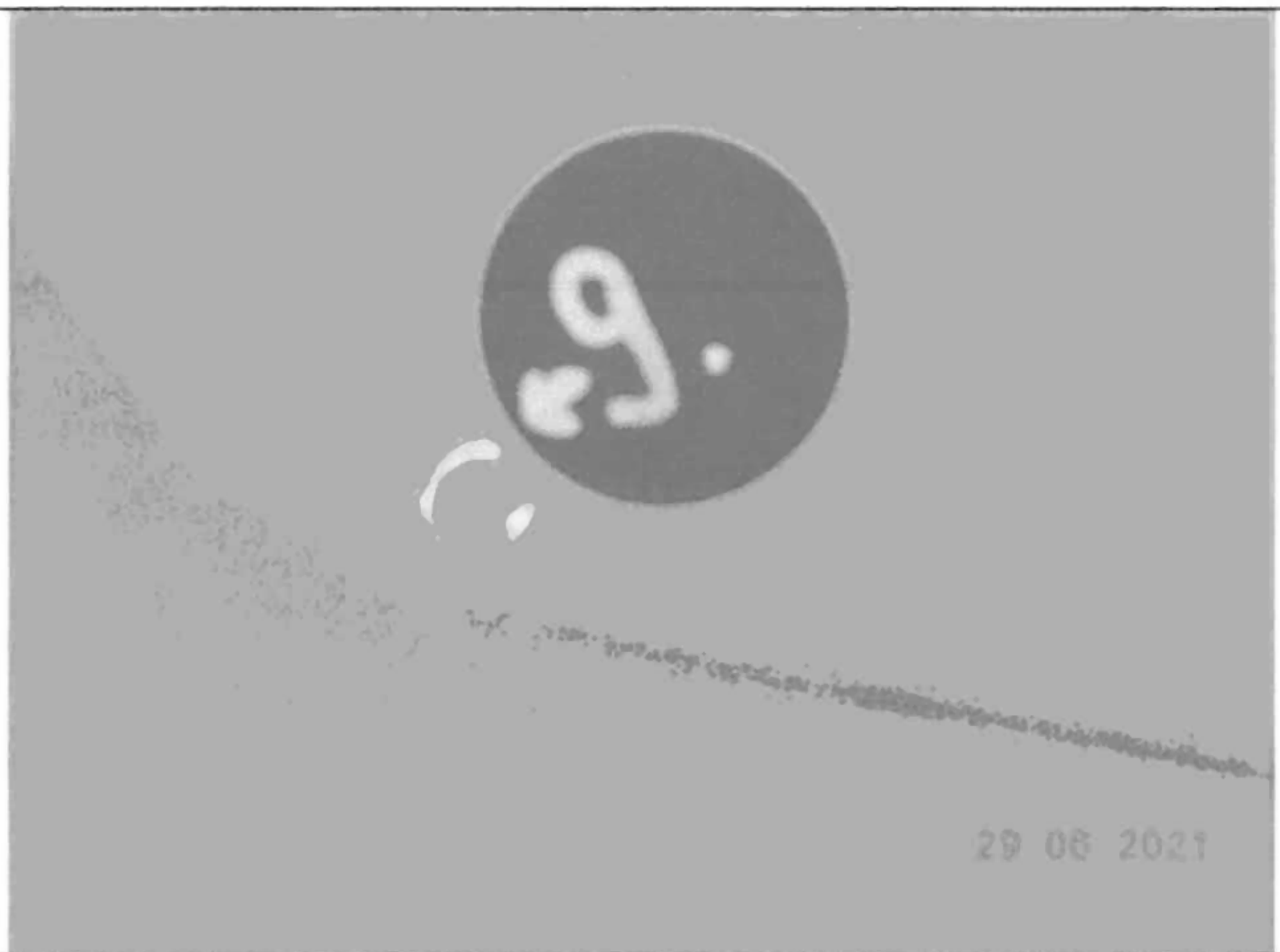
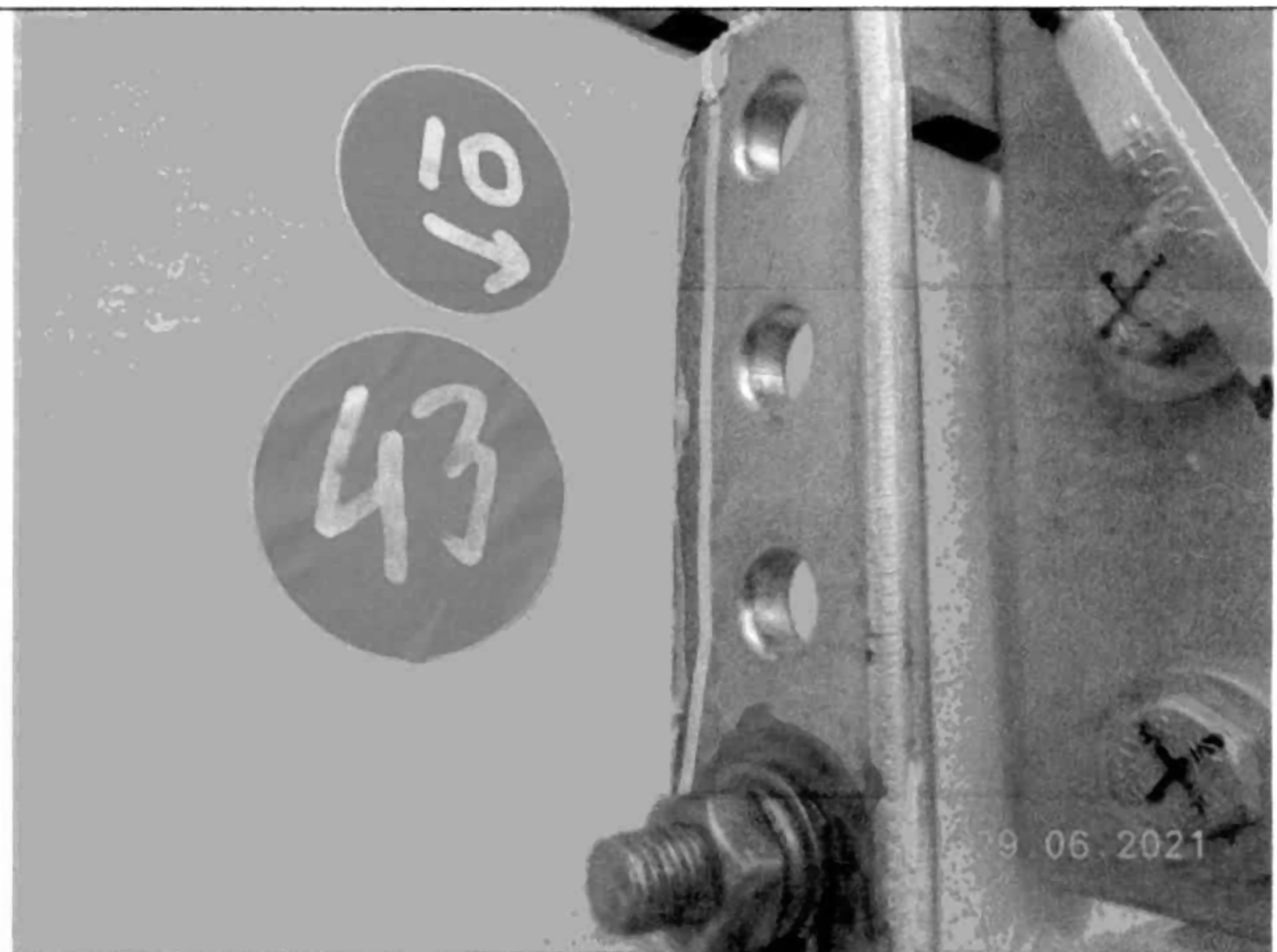
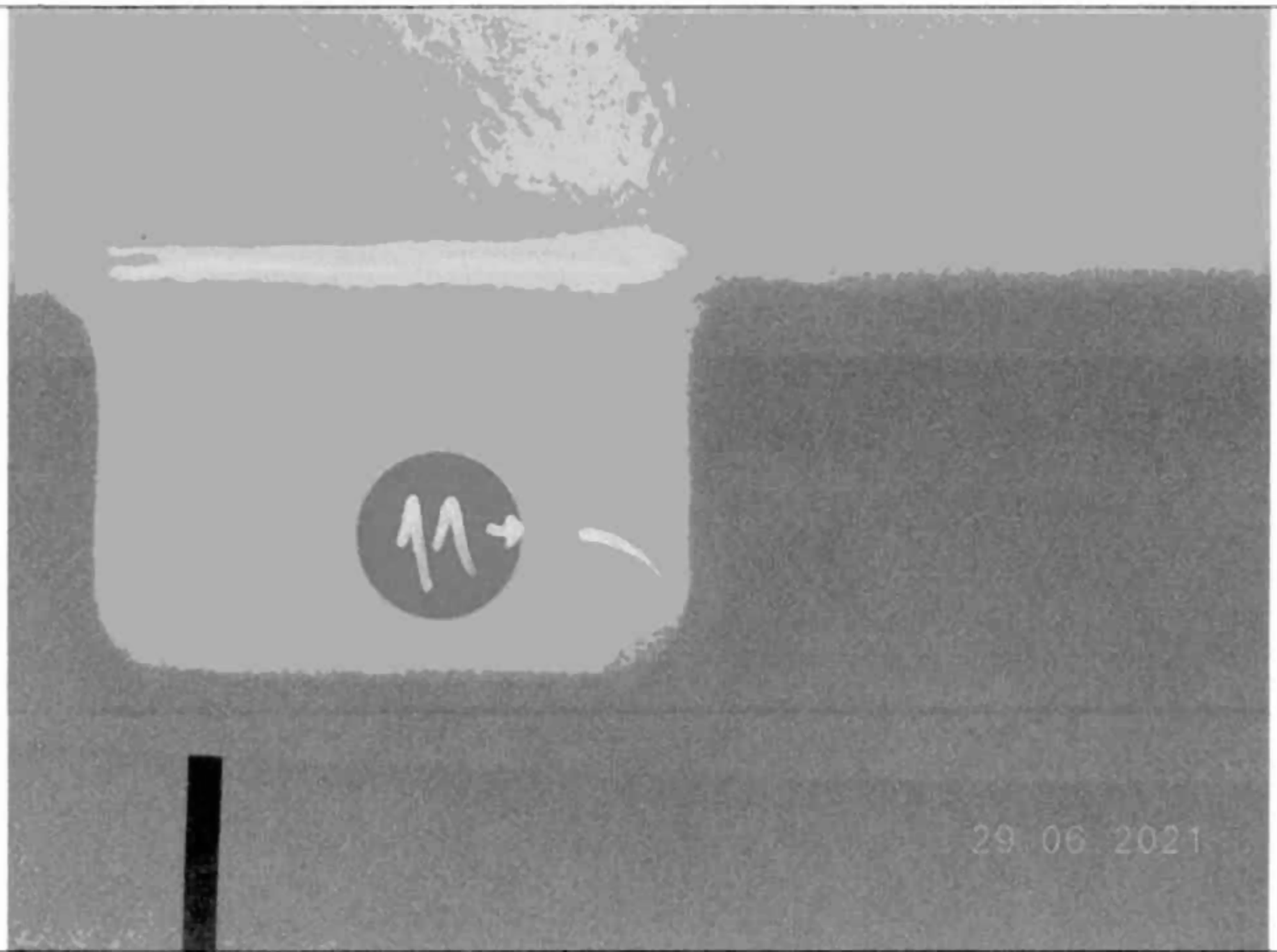
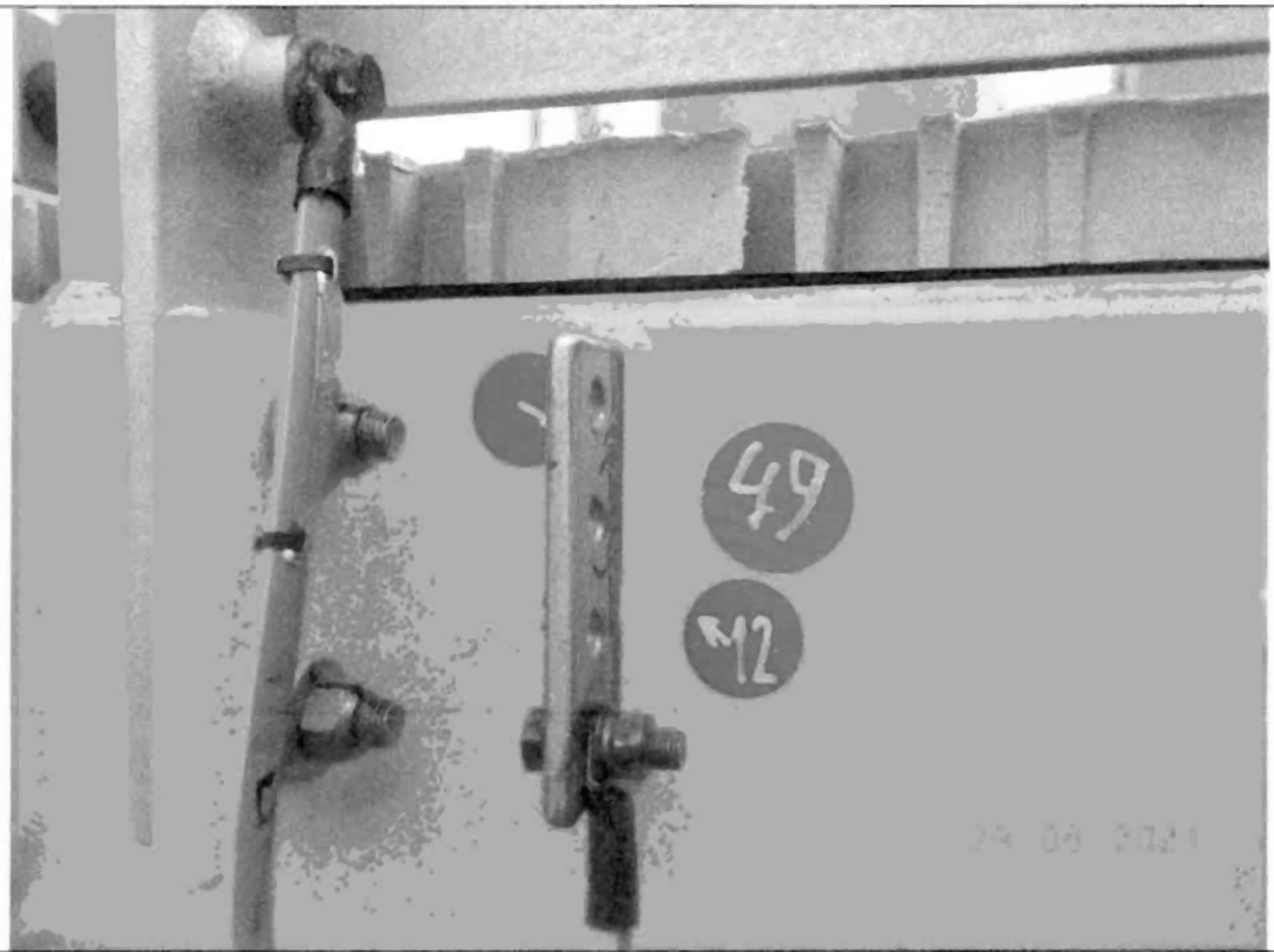
001A
01-07-21

		Project: Holland Kust Zuid (HKZ)		D-QC-GR-046 rev 0		
		Order n°: 25220				
Release Note						
Release Note n°:		25220-015		Rev. 1	Date: 26-04-21	
Item	Name: External Work Platform					
	Dwg. n°: 25220-8522-01					
Phase n°/ Set n°:		HZG1 - EWP17				
Location:		SMULDERS PROJECTS - Hoboken				
1. Traceability						
		YES	N/A	NO		
Material certificates and traceability complete		☐	☒	☐		
Routecard filled in correct and complete		☐	☒	☐		
List of elements not welded (loose parts)		☐	☒	☐		
2. NDT						
		YES	N/A	NO		
VT according project specific ITP		☐	☒	☐		
MT/PT according project specific ITP		☐	☒	☐		
UT according project specific ITP		☐	☒	☐		
3. Dimensional Reporting						
		YES	N/A	NO		
Dimensional report(s) available		☐	☒	☐		
4. Corrosion Protection						
4a. After blasting (& before coating)						
		YES	N/A	NO		
Daily log data is registered/		☒	☐	☐		
Inspection report of subcontractor is available		☒	☐	☐		
Soluble salt within range		☒	☐	☐		
Roughness (Rz) achieved		☒	☐	☐		
Surface preparation grade (Sa2,5;Sa3 /P St3) and cleanliness achieved		☒	☐	☐		
Dust cleaning achieved		☒	☐	☐		
Steel surface inspection according 8501-3		☒	☐	☐		
4b. After coating						
		YES	N/A	NO		
Daily log data is registered/		☒	☐	☐		
Inspection report of subcontractor is available		☒	☐	☐		
Metallization (TSZA/TSA) or		☒	☐	☐		
Hot Dip Galvanising applied according project specification		☒	☐	☐		
Coating system applied according project specification		☒	☐	☐		
Visual inspection of applied coating systems		☒	☐	☐		
Final coating inspection (DFT)		☒	☐	☐		
5. Functionalities						
		YES	N/A	NO		
		☐	☒	☐		
Release						
		YES	N/A	NO		
Items marked for traceability		☒	☐	☐		
Release for transport		☒	☐	☐		
Punch list attached		☒	☐	☐		
Remarks						
		Completed by Smulders		Reviewed/Witnessed/Approved by client		
Company	SPB	VATTENFALL				
Name	Milos Dragosasa	Aleksandra Piasecka		Coating inspector, Frosio level II		
Signature				Cert. No: 6604		
Date	02.07.2021	02-07-21		02.07.21		

		Punchlist Final Release Coating		SMU-RN-PL
Project ID		25220		
Project Name		Holland Kust Zuid (HKZ)		
Item	Name	External Work Platform		
	EWP N°	HZG1 - EWP17		
Date		29.06.2021		
Location		Smulders Projects Belgium		

N°	Description	Completion Signature + Date	
		Smulders	Client
1	Fly rust and tape residues and dirt, cleaning required.		
2	Touch up rework required.		
3	Touch up rework required.		
4	Touch up rework required.		
5	Mechanical damages to coating.		
6	Full coat system must be applied 20mm up face of plate. See drawings 8522.		
7	HDG railings, touch up rework required.		
8	Fly rust and tape residues, cleaning required.		
9	Mechanical damages to coating.		
10	Full coat system must be applied 20mm up face of plate. See drawings 8522.		
11	Mechanical damages to coating.		
12	Full coat system must be applied 20mm up face of plate. See drawings 8522.		
13	-- // --	-- // --	-- // --

Punch List Agreed			
	Completed by:	Approved by:	Reviewed/witnessed by client:
COMPANY	SMULDERS PROJECTS BELGIUM	SMULDERS PROJECTS BELGIUM	 
DATE	29.06.2021	29.06.2021.	
NAME	Milos Dragosavac	Greame Muir	
SIGNATURE	 SMULDERS QA/QC 112	 SMULDERS QA/QC 114	
Final Acceptance			
COMPANY	SMULDERS PROJECTS BELGIUM	SMULDERS PROJECTS BELGIUM	 
DATE	02.07.2021.	02.07.2021.	
NAME	Milos Dragosavac	Greame Muir	
SIGNATURE	 SMULDERS QA/QC 112	 SMULDERS QA/QC 114	

H3M		Rev. 2	Date: 29.06.2021
			
No. 7 – HDG railings, touch up rework required.		No. 8 – Fly rust and tape residue, cleaning required.	
			
No. 9 – Mechanical damage to coating.		No. 10 – Full coat system must be applied 20 mm up face of plate. See drawing 8522.	
			
No. 11 – Mechanical damage to coating.		No. 12 – Full coat system must be applied 20 mm up face of plate. See drawing 8522.	

HZG1		Rev. 2	Date: 29.06.2021
			
No. 1 – Fly rust and tape residue and dirt, cleaning required.		No. 2 – Touch up rework required.	
			
No. 3 – Touch up rework required.		No. 4 - Touch up rework required.	
			
No. 5 – Mechanical damages to coating.		No. 6 - Full coat system must be applied 20 mm up face of plate. See drawing 8522.	

D-TI-GR-066-25220+A1:S46		Daily log - Coating application				Rev	1
Project name		Hollandse Kust Zuid		Project N°		Date	17/06/2020
Performed at:		☐ Mulders Arendonk ☐ Mulders Balen ☒ Mulders Hoboken ☐ Fabricom Yard ☐ Site		25220			
Subcontractor (to be filled in):							
Part description		EXTERNAL WORK PLATFORM HZ M3 Finger guides weld joint					

1. Cleaning Free of oil and grease

OK	NOK
X	

2. Inspection prior to blasting:

Test	Acc. Standard	Acceptance Criteria	OK	NOK
Compressed air (blotter test)	ASTM D4285	No oil and no moisture	X	
Rust grade	ISO 8501-1	Max. B	X	

3. Surface preparation:

Date	Time	RH (%)	Tsteel (°C)	Tambient (°C)	Td (°C)	ΔT (°C)	Remarks
17.06.2021	Start time	09:00	61,3	26,2	26,1	18	NO
17.06.2021	End time	10:30					NO

Test	Acc. Standard	Acceptance Criteria	OK	NOK
Bresle test	ISO 8502-6/9	≤ 50 mg/m²	X	
Cleanliness	ISO 8501-1	Sa 2 ½ for coating, Sa 3 for TSZA	X	
Dust	ISO 8502-3	Quantity ≤ 2, Size ≤ 2	X	
Surface Profile	ISO 8503-2	Comparator - Medium (G)	X	
Visual inspection / Surface preparation grades	ISO 8501-3	of ITP P-TI-GR-076-25220	X	

4. Coating application: Paintsystem VS1 acc. to Faborder D-TI-GR-007-25220 Hollandse Kust Zuid

VS1

Layer	Date	Time		Component A Base		Component B Cure		Thinner			Application	RH (%)	Ts (°C)	Ta (°C)	Td (°C)	ΔT (°C)
				Prod. Name	Batch n°	Prod. Name	Batch n°	Prod. Name	Batch n°	V%						
1	17/06/2021	Start	15:10	Interzone 954 Oxide red	2330203019	EAA984	2241117016	GTA 220		5%	Brush	49,7	33	31,4	19,6	13,4
		End	15:40													
	17/06/2021	Start	16:00	Interzone 954 Oxide red	2330203019	EAA984	2241117016	GTA 220		5%	Airless spray					
		End	16:20													
2	18/06/2021	Start	15:45	Interzone 954 RAL 7035	2330364014	EAA984	2241117016	GTA 220		5%	Brush	42,1	34,4	36,2	21,2	13,2
		End	16:00													
	18/06/2021	Start	16:05	Interzone 954 RAL 7035	2330364014	EAA984	2241117016	GTA 220		5%	Airless spray					
		End	16:20													
		Start		Interzone 954 RAL 7035		EAA984		GTA 220		5%	Brush / Airless spray					
		End														
3	19/06/2021	Start	13:40	Interthane 990 RAL 1023	2330136012	Interthane 990 Part B	2331111007	GTA 713		5%	Brush / Roller	68,6	20,5	21,6	15,5	5
		End	13:55													
	19/06/2021	Start	14:05	Interthane 990 RAL 1023	2330136012	Interthane 990 Part B	2331111007	GTA 713		5%	Airless spray					
		End	14:15													
		Start		Interthane 990 RAL 1023		Interthane 990 Part B		GTA 713		5%	Brush / Roller / Airless spray					
		End														



D-TI-GR-066-25220+A1: S46		Daily log - Coating application		Rev	1
				Date	17/06/2020
Project name	Hollandse Kust Zuid		Project N°	25220	

5. Coating inspection: Paint systems VS1 and MET1 acc. to Faborder D-TI-GR-007-25220 Hollandse Kust Zuid

System	Layer	Nom. DFT (µm)	Min. DFT (µm)	Max. DFT (µm)	Avg. DFT (µm)	Elcometer Batch No.	OK/NOK	Visual OK/NOK
VS1	1st Layer	300	202	792	442,52	UB12297	OK	OK
	2nd Layer	300	488	1155	673,64	UB12297	OK	OK
	3rd Layer	80	660	1524	1013,58	UB12297	OK	OK

6. Remarks:

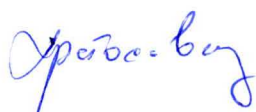
(*) Areas with too low thickness can be corrected with the next coat if the same type of binder is used and in accordance with the paint manufacturer requirements.

(*) Areas with too high DFT are sanded back.

Test plate applicable: ☒ YES ☐ NO

7. Conclusion

Accepted ? ☒ YES ☐ NO

 **SMULDERS**
QA/QC 112

Completed by QC Inspector

 **SMULDERS**
QA/QC 114

Controlled by QC Engineer

Approved by Paint Manufacturer

 
Aleksandra Piasecka
Coating inspector, Frosio level III
Cert. No: 6804
02.07.21

Approved by Client

D-TI-GR-055-25220	Inspection report surface treatment		Rev.: 1-0
			Date: 14/05/2020
Project name	Hollandse Kust Zuid	project N°	25220

Part Description: HZG1		
Project: 25220	Date: 17.06.2021	Time: 15:00

1 Dust report acc. to ISO 8502-3

1.		
Quantity =	Size =	
2.		
Quantity =	Size =	
3.		
Quantity =	Size =	
4.		
Quantity =	Size =	
5.		
Quantity =	Size =	
6.		
Quantity =	Size =	

D-TI-GR-055-25220	Inspection report surface treatment		Rev.: 1-0
			Date: 14/05/2020
Project name	Hollandse Kust Zuid	project N°	25220

2 Surface roughness acc. to ISO 8503-1

Method:	☐ Testex (ISO 8503-4) ☒ Comparator (ISO 8503-1/2)
segment 2 (OK)	

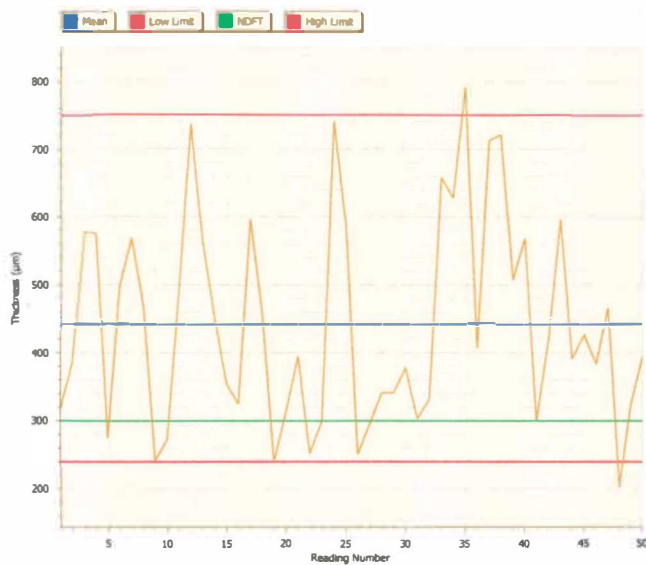
3 Bresle test acc. To ISO 8502-6/9

Measured value – Blank value – Patch contamination value = Result				
	Measured value μS/cm	Blank value μS/cm	Patch batch + contamination mg/m²	Result mg/m²
A	27.1	0.9	4.06	22.14
B				
C				
D				
E				
F				

Inspection Report - Dry Film Thickness

25220 HKZ\EWP\EWP17 (G1)\FG\
1st Layer VS1

Individuals / Run Chart



Project

Name

25220 HKZ

Gauge

Type
Serial #

Elcometer 456/4
UB12297

Probe

Type
Serial #

F2
VA07726

Calibration

Calibration Method
Type
Date
Thick Foil
Thin Foil
Offset

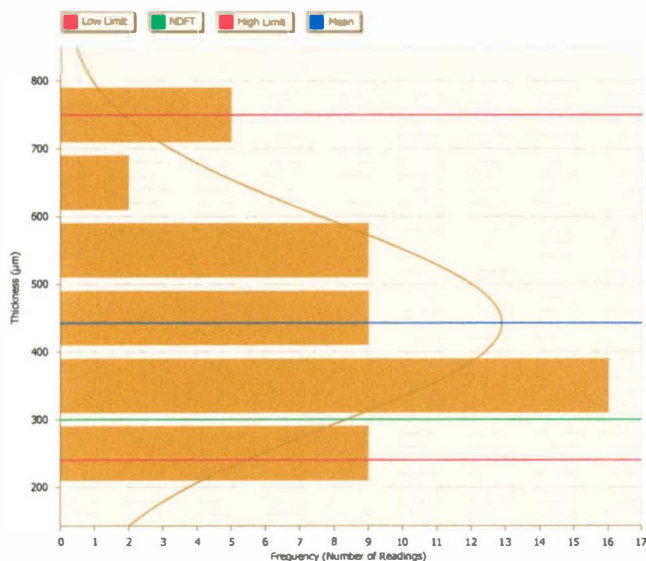
Zero Offset
F1
18/06/2021 08:12
958,0
0,0
25,0 µm

Batch

Type
Name in Gauge
User ID
Created Date
Updated Date
First Reading Date
Last Reading Date

Thickness
Batch
1st Layer VS1
18/06/2021 08:12:39
18/06/2021 08:12:39
18/06/2021 12:00:07
18/06/2021 12:02:30

Histogram



Statistics

# Readings	50
Mean	442,52 µm
Maximum	792,0 µm
Minimum	202,0 µm
Standard Deviation (σ)	154,04 µm
Mean + 3 σ	904,65 µm
Mean - 3 σ	-19,61 µm
Coefficient of Variation	34,8%
# Readings < NDT	9 (18,0%)
# Readings $\geq$ NDT	41 (82,0%)

Limits

High Limit	750,0 µm	# Readings Above	1 (2,0%)
Low Limit	240,0 µm	# Readings Below	1 (2,0%)
NDFT	300,0 µm		

Notes

1. DFTs have been measured in accordance with ISO 19840 i.e. 4 point measurements.
2. Low DFT out of specification range was rectified with next coat.
3. High DFT out of specification range was sanded down.
4. Daily adjustments of gauges carried out using foil set 151-783.

Inspection Report - Dry Film Thickness

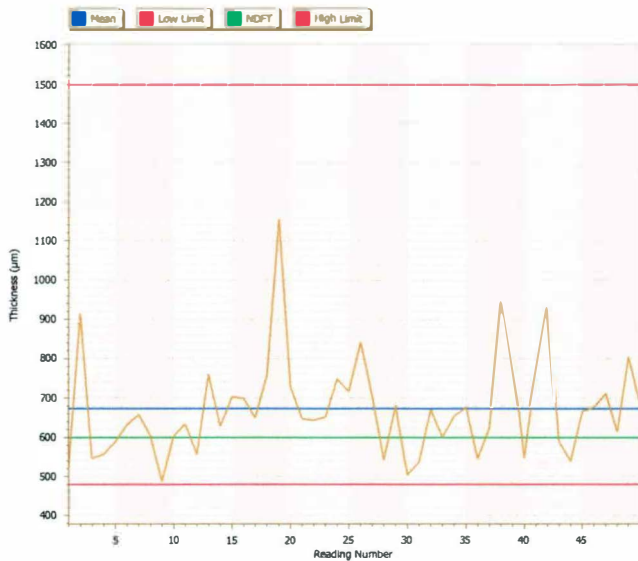
25220 HKZ\EWP\EWP17 (G1)\FG\
1st Layer VS1

Date & Time	#	Thickness	Type
18/06/2021 12:00:07	1	317,0	F1
18/06/2021 12:00:08	2	384,0	F1
18/06/2021 12:00:09	3	577,0	F1
18/06/2021 12:00:10	4	575,0	F1
18/06/2021 12:00:12	5	275,0	F1
18/06/2021 12:00:13	6	498,0	F1
18/06/2021 12:00:14	7	569,0	F1
18/06/2021 12:00:15	8	468,0	F1
18/06/2021 12:00:17	9	242,0	F1
18/06/2021 12:00:18	10	272,0	F1
18/06/2021 12:00:43	11	496,0	F1
18/06/2021 12:00:44	12	736,0	F1
18/06/2021 12:00:45	13	562,0	F1
18/06/2021 12:00:46	14	451,0	F1
18/06/2021 12:00:48	15	354,0	F1
18/06/2021 12:00:49	16	325,0	F1
18/06/2021 12:00:50	17	596,0	F1
18/06/2021 12:00:51	18	458,0	F1
18/06/2021 12:00:52	19	240,0	F1
18/06/2021 12:00:54	20	313,0	F1
18/06/2021 12:00:55	21	395,0	F1
18/06/2021 12:00:56	22	252,0	F1
18/06/2021 12:01:09	23	299,0	F1
18/06/2021 12:01:10	24	741,0	F1
18/06/2021 12:01:11	25	589,0	F1
18/06/2021 12:01:13	26	251,0	F1
18/06/2021 12:01:14	27	295,0	F1
18/06/2021 12:01:16	28	341,0	F1
18/06/2021 12:01:17	29	341,0	F1
18/06/2021 12:01:18	30	378,0	F1
18/06/2021 12:01:19	31	303,0	F1
18/06/2021 12:01:21	32	332,0	F1
18/06/2021 12:01:37	33	658,0	F1
18/06/2021 12:01:38	34	628,0	F1
18/06/2021 12:01:39	35	792,0	F1
18/06/2021 12:01:40	36	408,0	F1
18/06/2021 12:01:41	37	712,0	F1
18/06/2021 12:01:43	38	721,0	F1
18/06/2021 12:01:44	39	507,0	F1
18/06/2021 12:01:45	40	568,0	F1
18/06/2021 12:01:46	41	300,0	F1
18/06/2021 12:01:47	42	419,0	F1
18/06/2021 12:01:49	43	596,0	F1
18/06/2021 12:01:50	44	391,0	F1
18/06/2021 12:01:52	45	427,0	F1
18/06/2021 12:01:53	46	384,0	F1
18/06/2021 12:01:55	47	468,0	F1
18/06/2021 12:01:56	48	202,0	F1
18/06/2021 12:02:29	49	324,0	F1
18/06/2021 12:02:30	50	396,0	F1

Inspection Report - Dry Film Thickness

25220 HKZ\EWP\EWP17 (G1)\FG\
2nd Layer VS1

Individuals / Run Chart



Project

Name 25220 HKZ

Gauge

Type Elcometer 456/4
Serial # UB12297

Probe

Type F2
Serial # VA07726

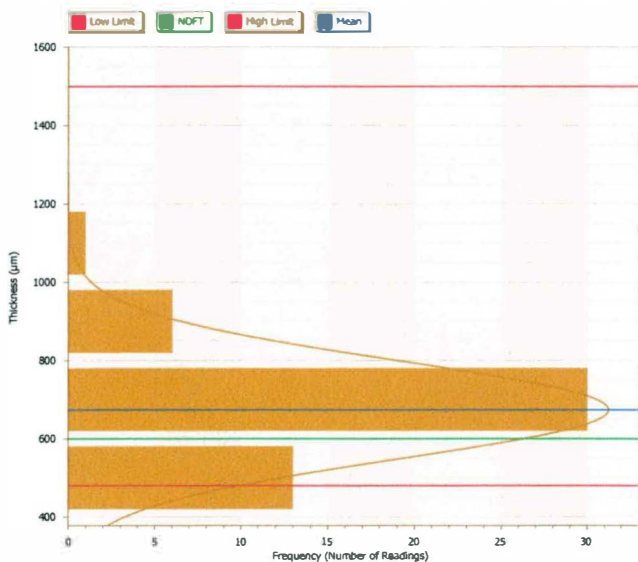
Calibration

Calibration Method Zero Offset
Type F1
Date 19/06/2021 08:24
Thick Foil 491,0
Thin Foil 0,0
Offset 25,0 µm

Batch

Type Thickness
Name in Gauge Batch
User ID 2nd Layer VS1
Created Date 19/06/2021 08:24:20
Updated Date 19/06/2021 08:24:20
First Reading Date 19/06/2021 11:48:27
Last Reading Date 19/06/2021 11:51:42

Histogram



Statistics

# Readings	50
Mean	673,64 µm
Maximum	1155,0 µm
Minimum	488,0 µm
Standard Deviation (σ)	127,14 µm
Mean + 3 σ	1055,07 µm
Mean - 3 σ	292,21 µm
Coefficient of Variation	18,9%
# Readings < NDFT	13 (26,0%)
# Readings $\geq$ NDFT	37 (74,0%)

Limits

High Limit	1500,0 µm	# Readings Above	0 (0,0%)
Low Limit	480,0 µm	# Readings Below	0 (0,0%)
NDFT	600,0 µm		

Notes

1. DFTs have been measured in accordance with ISO 19840 i.e. 4 point measurements.
2. Daily adjustments of gauges carried out using foil set 151-783.

Inspection Report - Dry Film Thickness

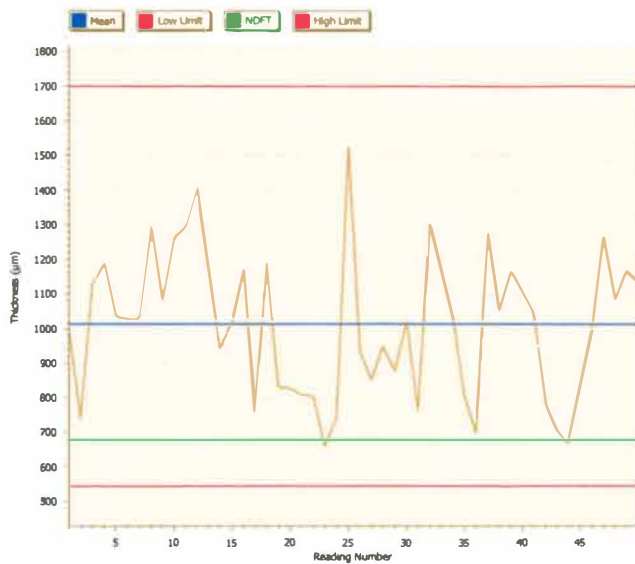
25220 HKZ\EWP\EWP17 (G1)\FG\
2nd Layer VS1

Date & Time	#	Thickness	Type
19/06/2021 11:48:27	1	522,0	F1
19/06/2021 11:48:28	2	915,0	F1
19/06/2021 11:48:31	3	547,0	F1
19/06/2021 11:48:32	4	557,0	F1
19/06/2021 11:48:34	5	589,0	F1
19/06/2021 11:48:36	6	632,0	F1
19/06/2021 11:48:39	7	658,0	F1
19/06/2021 11:48:40	8	605,0	F1
19/06/2021 11:48:50	9	488,0	F1
19/06/2021 11:48:51	10	603,0	F1
19/06/2021 11:48:53	11	634,0	F1
19/06/2021 11:48:54	12	557,0	F1
19/06/2021 11:48:56	13	760,0	F1
19/06/2021 11:48:56	14	628,0	F1
19/06/2021 11:48:58	15	703,0	F1
19/06/2021 11:48:59	16	699,0	F1
19/06/2021 11:49:01	17	650,0	F1
19/06/2021 11:49:02	18	757,0	F1
19/06/2021 11:49:03	19	1155,0	F1
19/06/2021 11:49:04	20	730,0	F1
19/06/2021 11:49:06	21	648,0	F1
19/06/2021 11:49:07	22	644,0	F1
19/06/2021 11:49:09	23	652,0	F1
19/06/2021 11:49:13	24	749,0	F1
19/06/2021 11:49:16	25	717,0	F1
19/06/2021 11:49:17	26	842,0	F1
19/06/2021 11:49:19	27	704,0	F1
19/06/2021 11:49:21	28	543,0	F1
19/06/2021 11:49:23	29	681,0	F1
19/06/2021 11:49:23	30	504,0	F1
19/06/2021 11:50:22	31	537,0	F1
19/06/2021 11:50:24	32	671,0	F1
19/06/2021 11:50:25	33	601,0	F1
19/06/2021 11:50:28	34	654,0	F1
19/06/2021 11:50:29	35	677,0	F1
19/06/2021 11:50:34	36	546,0	F1
19/06/2021 11:50:35	37	624,0	F1
19/06/2021 11:50:36	38	945,0	F1
19/06/2021 11:50:38	39	807,0	F1
19/06/2021 11:50:58	40	548,0	F1
19/06/2021 11:50:59	41	773,0	F1
19/06/2021 11:51:01	42	932,0	F1
19/06/2021 11:51:02	43	589,0	F1
19/06/2021 11:51:04	44	540,0	F1
19/06/2021 11:51:05	45	667,0	F1
19/06/2021 11:51:29	46	677,0	F1
19/06/2021 11:51:30	47	712,0	F1
19/06/2021 11:51:31	48	614,0	F1
19/06/2021 11:51:40	49	805,0	F1
19/06/2021 11:51:42	50	690,0	F1

Inspection Report - Dry Film Thickness

25220 HKZ\EWP\EWP17 (G1)\FG\
3rd Layer VS1

Individuals / Run Chart



Project Name

25220 HKZ

Gauge

Type
Serial #

Elcometer 456/4
UB12297

Probe

Type
Serial #

F2
VA07726

Calibration

Calibration Method
Type
Date
Thick Foil
Thin Foil
Offset

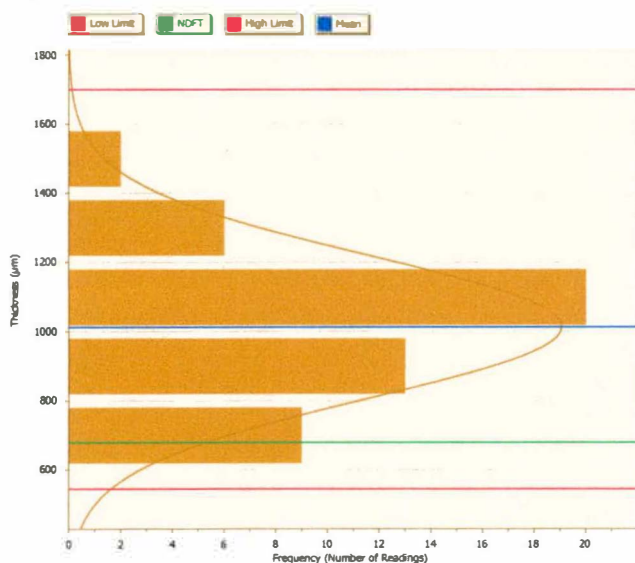
Zero Offset
F1
21/06/2021 08:57
958,0
0,0
25,0 µm

Batch

Type
Name in Gauge
User ID
Created Date
Updated Date
First Reading Date
Last Reading Date

Thickness
Batch
3rd Layer VS1
21/06/2021 08:57:52
21/06/2021 08:57:52
21/06/2021 13:35:51
21/06/2021 13:38:19

Histogram



Statistics

# Readings	50
Mean	1013,58 µm
Maximum	1524,0 µm
Minimum	660,0 µm
Standard Deviation (σ)	208,39 µm
Mean + 3 σ	1638,75 µm
Mean - 3 σ	388,41 µm
Coefficient of Variation	20,6%
# Readings < NDFT	2 (4,0%)
# Readings $\geq$ NDFT	48 (96,0%)

Limits

High Limit	1700,0 µm	# Readings Above	0 (0,0%)
Low Limit	545,0 µm	# Readings Below	0 (0,0%)
NDFT	680,0 µm		

Notes

1. DFTs have been measured in accordance with ISO 19840 i.e. 4 point measurements.
2. Daily adjustments of gauges carried out using foil set 151-783.

Inspection Report - Dry Film Thickness

25220 HKZ\EWP\EWP17 (G1)\FG\
3rd Layer VS1

Date & Time	#	Thickness	Type
21/06/2021 13:35:51	1	997,0	F1
21/06/2021 13:35:52	2	742,0	F1
21/06/2021 13:35:55	3	1130,0	F1
21/06/2021 13:35:56	4	1192,0	F1
21/06/2021 13:35:58	5	1037,0	F1
21/06/2021 13:36:00	6	1031,0	F1
21/06/2021 13:36:01	7	1031,0	F1
21/06/2021 13:36:04	8	1297,0	F1
21/06/2021 13:36:06	9	1084,0	F1
21/06/2021 13:36:07	10	1266,0	F1
21/06/2021 13:36:08	11	1297,0	F1
21/06/2021 13:36:10	12	1411,0	F1
21/06/2021 13:36:12	13	1151,0	F1
21/06/2021 13:36:14	14	942,0	F1
21/06/2021 13:36:16	15	1020,0	F1
21/06/2021 13:36:17	16	1170,0	F1
21/06/2021 13:36:18	17	759,0	F1
21/06/2021 13:36:20	18	1183,0	F1
21/06/2021 13:36:31	19	831,0	F1
21/06/2021 13:36:32	20	828,0	F1
21/06/2021 13:36:33	21	809,0	F1
21/06/2021 13:36:35	22	806,0	F1
21/06/2021 13:36:37	23	660,0	F1
21/06/2021 13:36:47	24	743,0	F1
21/06/2021 13:36:49	25	1524,0	F1
21/06/2021 13:36:50	26	934,0	F1
21/06/2021 13:36:52	27	852,0	F1
21/06/2021 13:36:55	28	949,0	F1
21/06/2021 13:36:59	29	878,0	F1
21/06/2021 13:37:03	30	1022,0	F1
21/06/2021 13:37:08	31	765,0	F1
21/06/2021 13:37:11	32	1308,0	F1
21/06/2021 13:37:15	33	1165,0	F1
21/06/2021 13:37:19	34	1036,0	F1
21/06/2021 13:37:23	35	807,0	F1
21/06/2021 13:37:27	36	699,0	F1
21/06/2021 13:37:31	37	1275,0	F1
21/06/2021 13:37:36	38	1051,0	F1
21/06/2021 13:37:39	39	1164,0	F1
21/06/2021 13:37:43	40	1110,0	F1
21/06/2021 13:37:49	41	1042,0	F1
21/06/2021 13:37:52	42	788,0	F1
21/06/2021 13:37:55	43	709,0	F1
21/06/2021 13:37:56	44	669,0	F1
21/06/2021 13:37:59	45	863,0	F1
21/06/2021 13:38:05	46	990,0	F1
21/06/2021 13:38:08	47	1268,0	F1
21/06/2021 13:38:11	48	1087,0	F1
21/06/2021 13:38:16	49	1170,0	F1
21/06/2021 13:38:19	50	1137,0	F1