

Skeljungur hf.
Bergsteinn Hjörleifsson / Aðalsteinn Árnason
Borgartúni 26
105 Reykjavík

Reykjavík 12. júlí 2018
UST201803-165/gf
08.06.02

Varðar botnþykktarmælingu á geymi 740-B203 í olíubirgðastöð Skeljungs hf. á Eskifirði

Umhverfisstofnun barst tölvupóstur þann 12. júlí sl. með skýrslu um niðurstöður botnþykktarmælinga á geymi nr. B203 (217-0616 030101) í stöðinni á Eskifirði. Mælingar voru framkvæmdar af NDT ehf. og notaður var MFE MK IV Tank Floor Scanner, ser# MK4-0016-A-TFS) og þykktarmælir af gerðinni Olympus 45MG.5 Mhz ser# 130177407 kvarðaður með 3 mm, 6 mm, 9 mm, 12 mm og 18 mm stilliklossum.

Í skýrslu NDT ehf. kemur fram að: „geymir er ómálaður að innan nema ca. 30 cm breið rönd við kverk sem nær út á gólf og upp á neðsta umfarið. Geymir er í góðu ásigkomulagi að innanverðu, gólf ásamt neðsta umfari ótært að innan“.

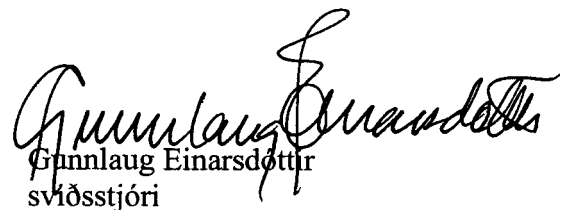
Niðurstöður mælinga sýna að botn og hliðar geymisins standast kröfur um málmþykktir (sjá meðfylgjandi skýrslu)

Umhverfisstofnun samþykkir áframhaldandi notkun á geyminum.

Virðingarfyllst,



Gottskálk Friðgeirsson



Gunnlaug Einarsdóttir
sviðsstjóri

Afrit:
Heilbrigðisnefnd Austurlandssvæðis



SKELJUNGUR HF
B/T.: BERGSTEINN HIÖRLEIFSSON
BORGARTÚN 26
105 REYKJAVÍK

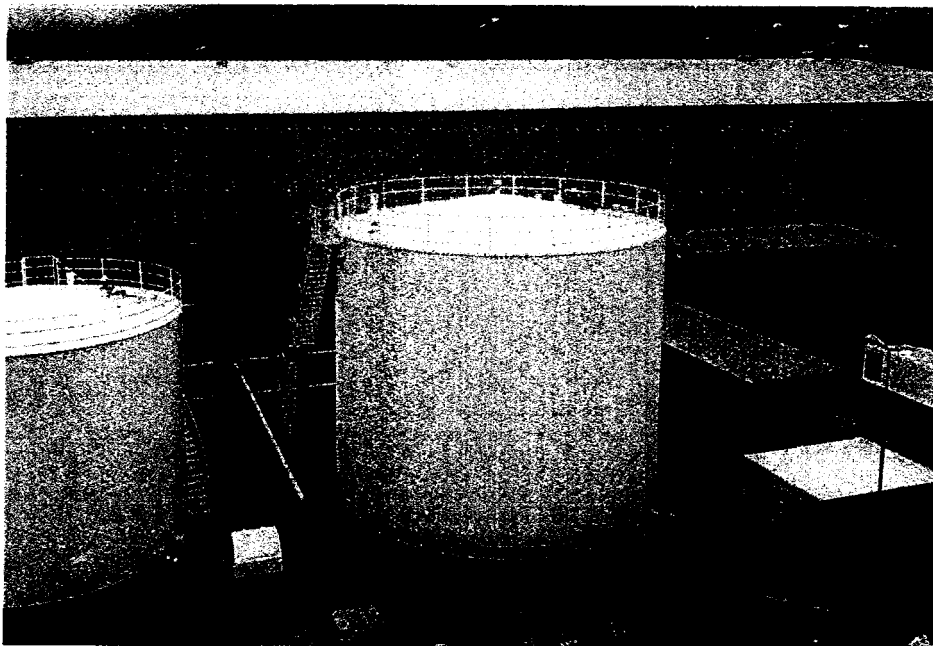


SKÝRSLA

ÞYKKTARMÆLINGAR Á OLÍUGEYMI 3 Á ESKIFIRÐI

ULTRASONIC THICKNESS MEASUREMENT

UTM SKÝRSLA NR. 1769



APRÍL 2018

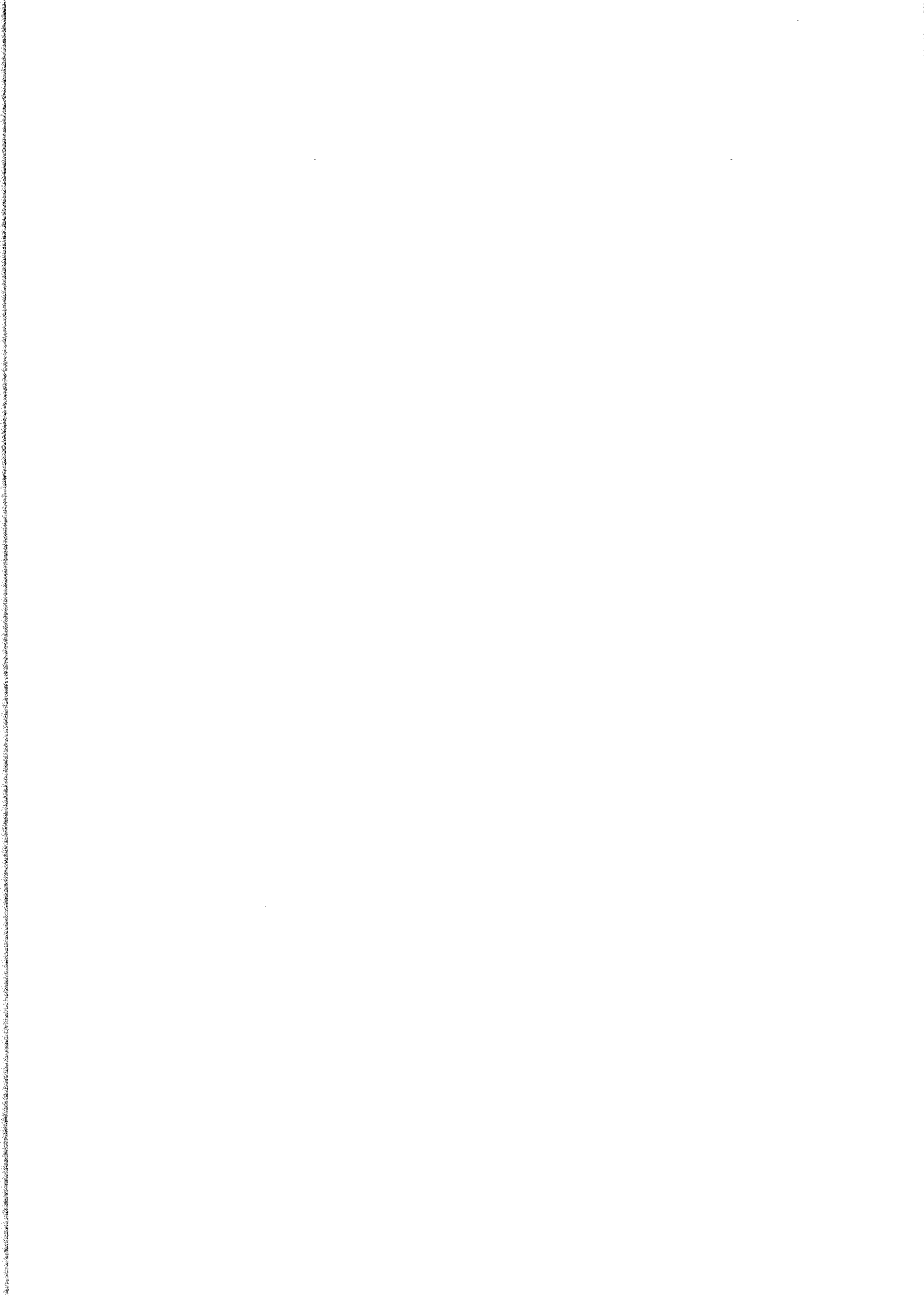
FASTANÚMÉR: 217 0616-030101

EIGANDANÚMÉR: 740-B203

MÆLINGAR FRAMKVÆMDAR, STAÐUR: ESKIFJÖRÐUR

NDT EHF
WWW.NDT.IS
ndt@internet.is
+354 8440313

Samgöngustofa 



Framkvæmd mælinga

Þykktarmælingu framkvæmdi Gísli A. Guðmundsson hjá NDT ehf á Akureyri. Upplýsingar varðandi aðstæður, notkun geyma o.fl. veitti Bjarni Freyr hjá Skeljungu hf. Framkvæmd þykktarmælinga, segulsviðskönnunar og sjónskoðunar á geyminum fóru fram í apríl mánuði 2018. Geymirinn er standandi stálgeymir og var botn hans mældur ásamt neðsta umfari.

Þykktarmælingar

Varðandi staðsetningu mælistaða og niðurstöður þykktarmælinga á geyminum er hér vísað á meðfylgjandi teikningar (1 stk.). Allar gólfplötur eru mældar á svipaðan hátt þ.e.a.s. miðast er við að hafa mælinguna í miðri plötu, aðeins var tekin einn punktur í plötu.

Segulsviðsmælingar

Gólfskanninn er kvarðaður á 8 mm plötu, 8, 10, 14 og 18mm göt eru boruð í plötuna þar til 3mm efnisþykkt er eftir. Hugbúnaðurinn er stilltur þar til götin gefa rautt/appelsínugult merki á skjá. Gólfskanninum er rennt yfir alla fleti sem hann kemst yfir. Svelgir, rör eða ójafn botn geta gert gólfskanninum ókleift að mæla.

Sjónskoðun

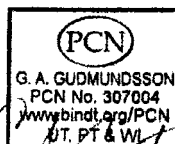
Farið er um allan geyminn með sterkt ljós og því haldið rétt við yfirborðið svo pyttir og misfellur sjáist betur. Kverksuða geymis er skoðuð sérstaklega vel ásamt öðrum suðum innanvert í geymi. Þá eru svelgir einnig skoðaðir mjög vel ásamt þeim stöðum þar sem gólfskanni kemst ekki.

Niðurstöður

Geymir er ómálaður að innan fyrir utan c.a 30cm breiða rönd við kverk sem nær útá gólf og uppá neðsta umfarið. Geymir er í góðu ásigkomulagi að innanverðu, gólf ásamt neðsta umfarinu er ótært að innan Sjá teikningar og ljósmyndir. Eigandi geymis var látin vita. Sjá meðf. niðurstöður mælingar. Öll uppgefin mál á teikningum eru í mm.

Akureyri, 17 apríl 2018

Virðingarfyllst.



Gísli Arnar Guðmundsson



SKELJUNGUR HF
B/T.: BERGSTEINN HIÖRLEIFSSON
BORGARTÚN 26
105 REYKJAVÍK



STAÐFESTING ÞYKKTAR OG SEGULSVIÐSMÆLINGA

SKÝRSLA NR.: 1769
DAGS. SKÝRSLU: 17 apríl 2018
EIGANDI GEYMIS: Skeljungur hf
REKSTRARAÐILI: Skeljungur hf
DAGS. FRAMKV.: 16 apríl 2018
STAÐUR Eskifjörður
HVAÐ MÆLT: Geymir 3
FASTANÚMER: 217 0616-030101
EIGENDANÚMER: 740-B203
SMÍÐAÁR: 1985

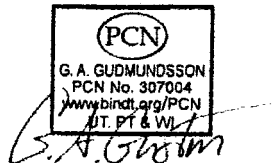
MÆLIBÚNAÐUR: Olympus 45MG. 5 Mhz Serial nr: 130177407, skoðað og vottað þann 30.08.2016
Stilliklossar (Calibration blocks): 3mm, 6mm 9mm 12mm og 18mm.
MFE MK IV Tank Floor Scanner. Serial No.MK4 0016-A-TFS

FRAMKV. MÆLINGA: Gísli Arnar Guðmundsson

SKÍRTEINI (CERTIFICATE): Ultrasonic Inspection – Level II
PCN GEN ISS 6 2010/ n.r. 52140
10/03/2017 - 10/043/2022
Ultrasonic Inspection – Level II
PCN Cert no: E013S3329037 (UT, PA,TOFD)
10/07/2013-09/07/2018

Hér staðfestist að framkvæmdar hafa verið þykktarmæling og segulsviðsskönnun á ofangreindum geymi, í eigu og rekstri Skeljungs hf, að ósk rekstraraðila. Niðurstöður mælinga eru skráðar á meðfylgjandi blaðsíður (teikningar) og eru öll mál í mm. Alls eru þar skráðar 58 niðurstöður. Þykktarmælir, gólfskanni og nemar tengdir búnaðinum voru sannreyndir og prófaðir með mælingum á stilliklossum fyrir, á meðan og að loknum mælingum.

Skóðað/dags./af: 17/04/2018



Samþykkt/dags./af:

12. júlí 2018

UMHVERFISSTOFNUN
Mengunarvamaeftirlit

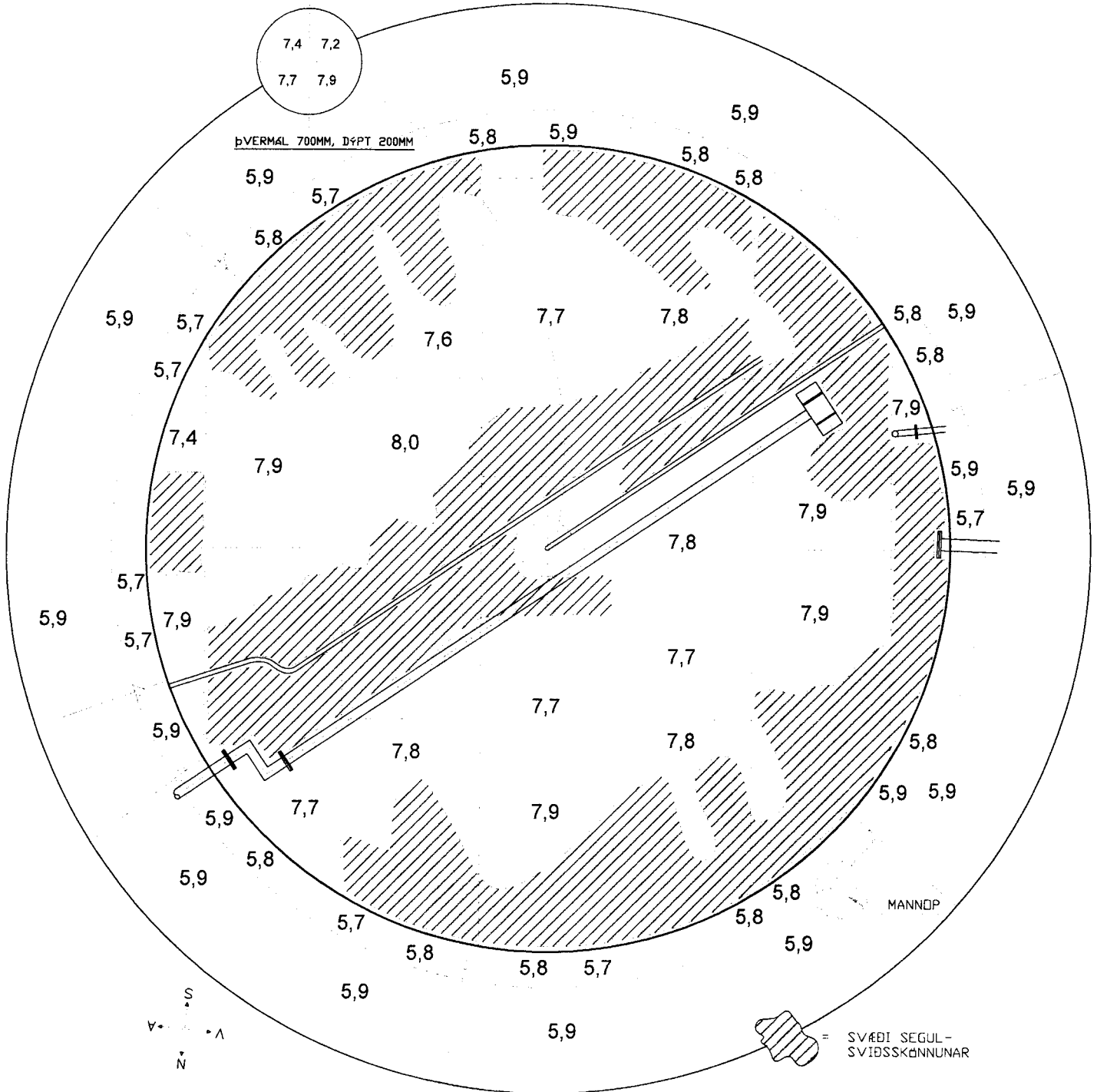
Samgöngustofa

NDT EHF
WWW.NDT.IS
ndt@internet.is
+354 8440313




GEYMIR-GÓLF-LAGNIR

SVELGUR

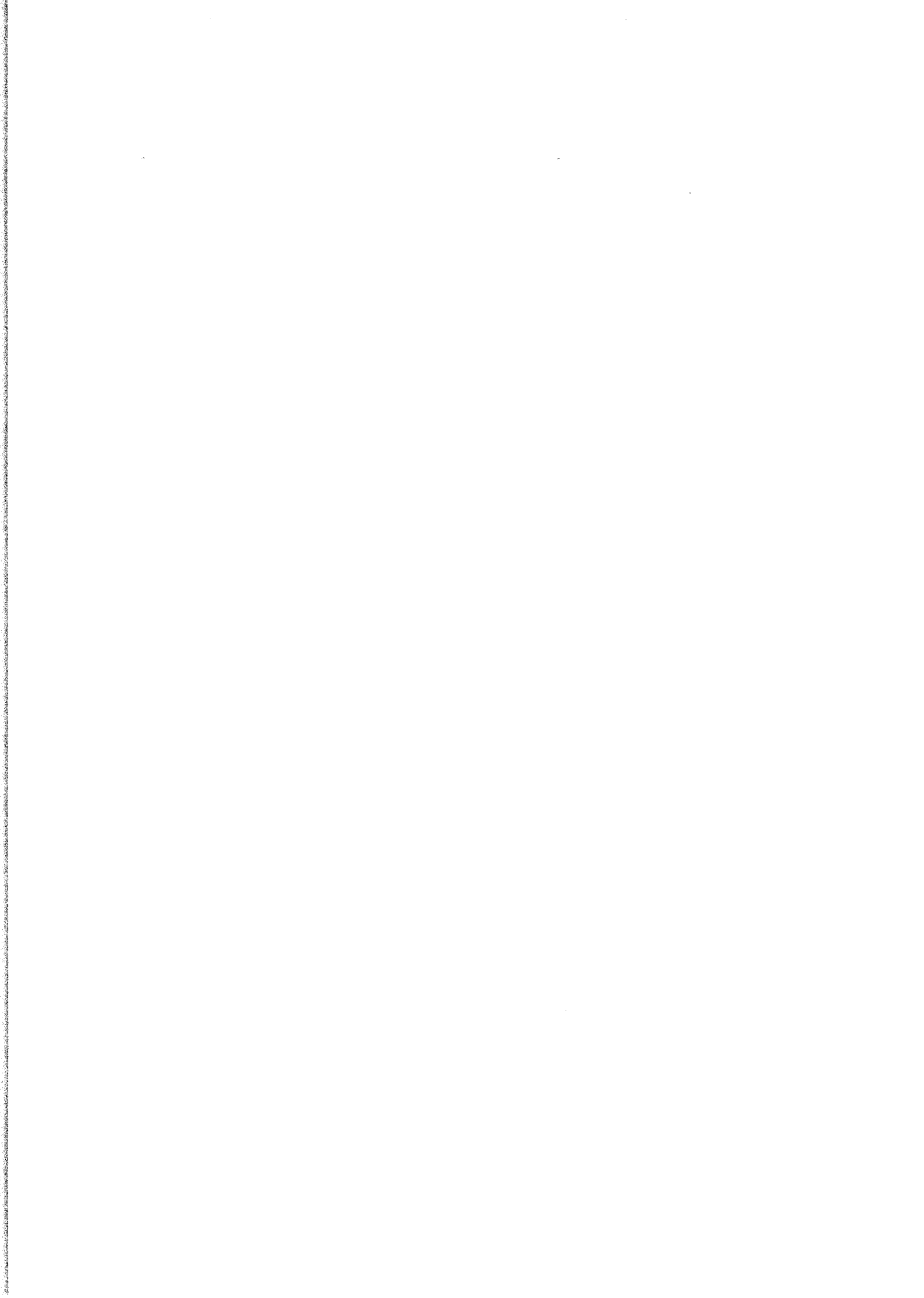


MINNSTA GILDI á GÓLF: 7.6MM
MINNSTA GILDI á UMFARI: 5.6mm

ENGIR TÆRINGARPYTTIR EÐA SÝNILEGAR
ÞYNNINGAR FUNDUST Í GÓLFPLÖTUM
TEIKNING NR. 2 AF 2 TEIKNINGUM

 <p>NON DESTRUCTIVE TESTING - ICELAND ÞYKKTARMÆLING SKIPA SPRUNGULEIT Á STALI HLJÓÐBYLGIUÞRÖFUN SEGULAGNAÞRÖFUN LITAPRÖFUN</p>	ÞYKKTARMÆLINGAR (UTM)
	REKSTRARADILI: SKELJUNGUR HF
	TILVÍSUN OKKAR: 1769/GAG
	MÆLINGAR FRAMKV. 16. APRIL 2018
	STAÐUR: ESKIFJÖRDUR
	HLUTUR MÆLDUR: 740-B203 SVARTOLIUGEYMIR
FASTANR: 217-0616 030101	

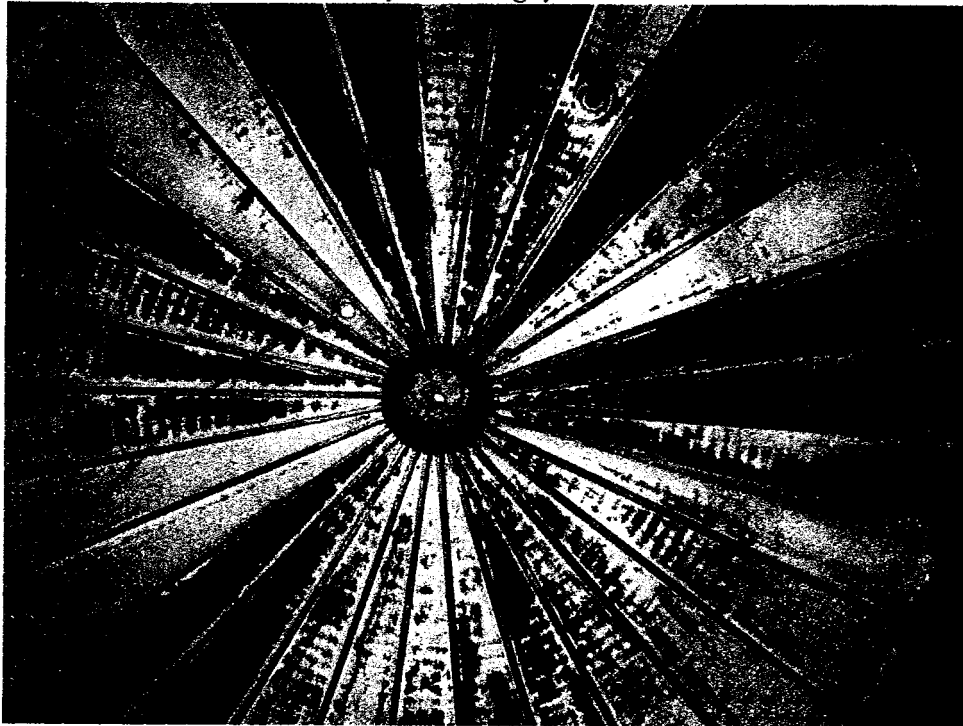
TEIKNING ER EKKI Í MÆLIKVARÐA



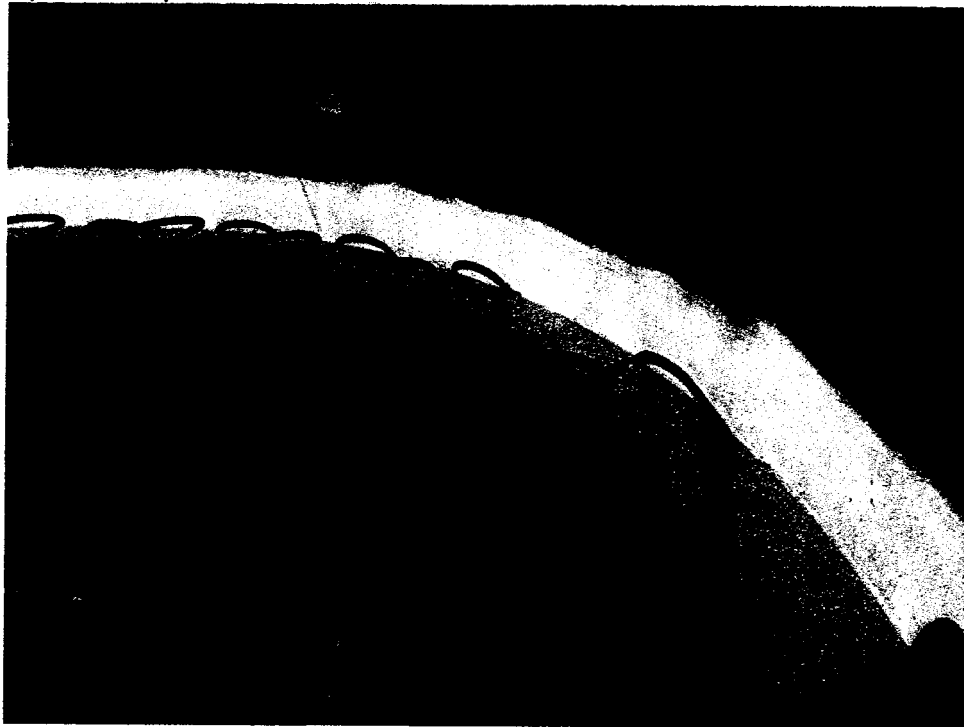
SKELJUNGUR HF
B/T.: BERGSTEINN HJÖRLEIFSSON
BORGARTÚN 26
105 REYKJAVÍK

WNDT
NON DESTRUCTIVE TESTINGS - ICELAND

Myndir frá geymi 3



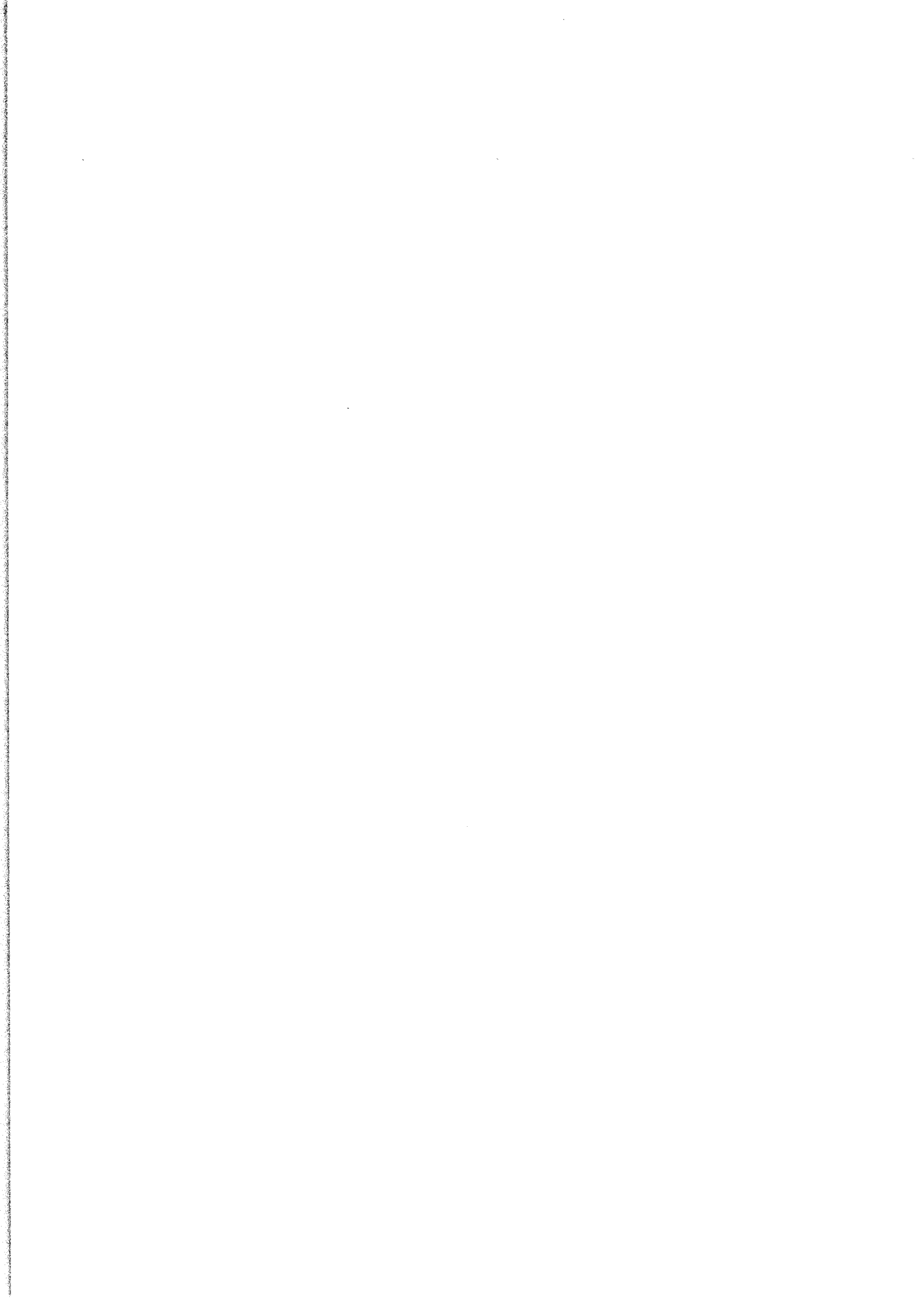
Mynd 1. Þak Geymis



Mynd 2. Kverkin er máluð.

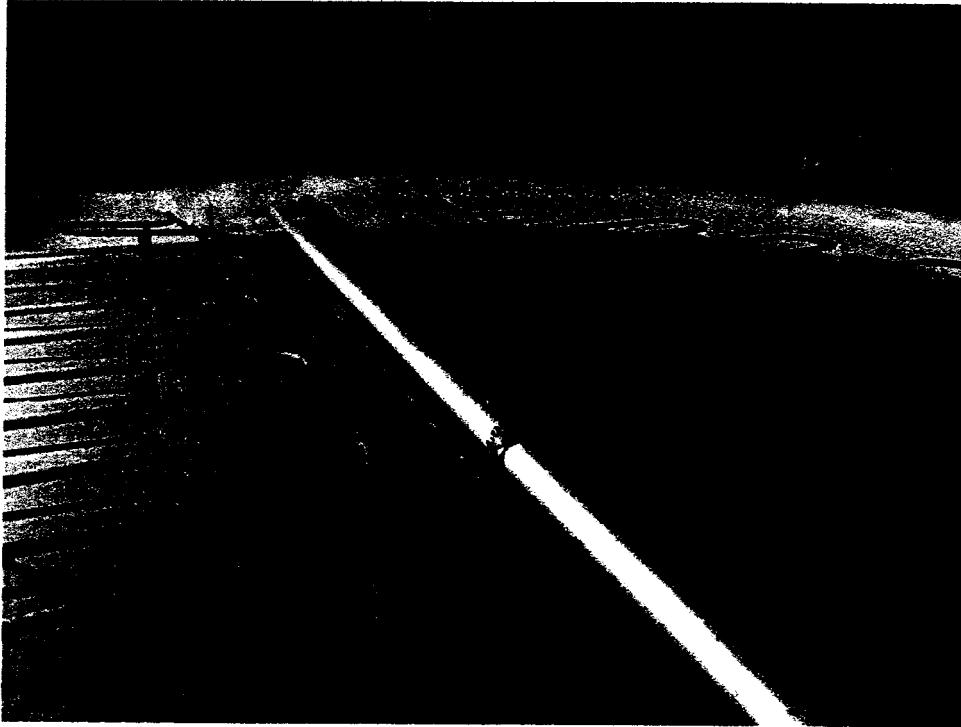
NDT EHF
WWW.NDT.IS
ndt@internet.is
+354 8440313

Samgöngustofa 

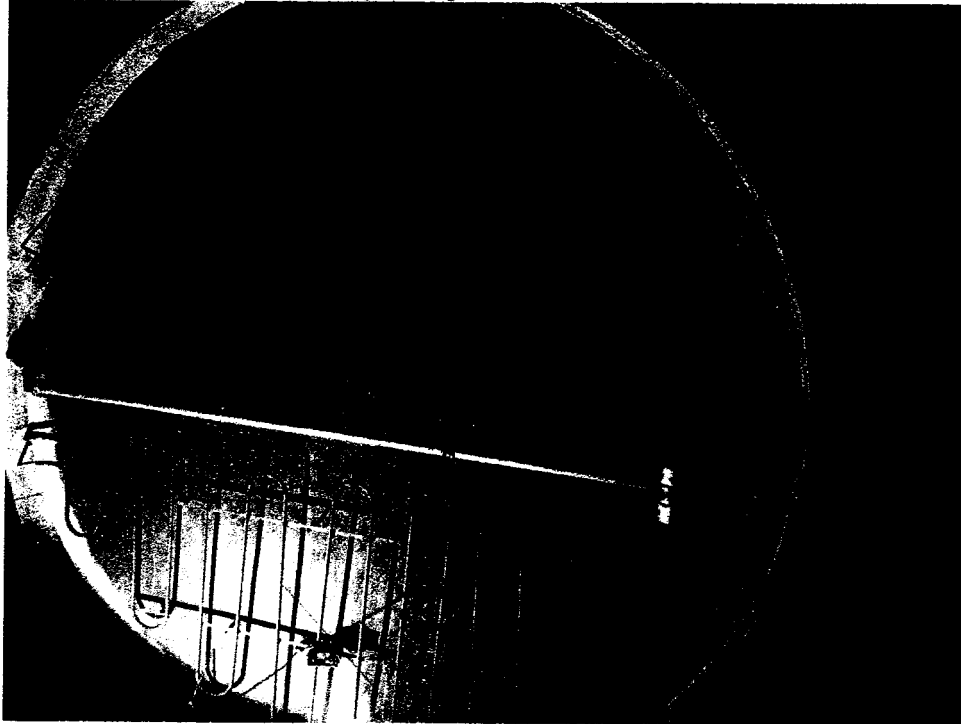


SKELJUNGUR HF
B/T.: BERGSTEINN HJÖRLEIFSSON
BORGARTÚN 26
105 REYKJAVÍK

WNDT
NON DESTRUCTIVE TESTING - ICELAND



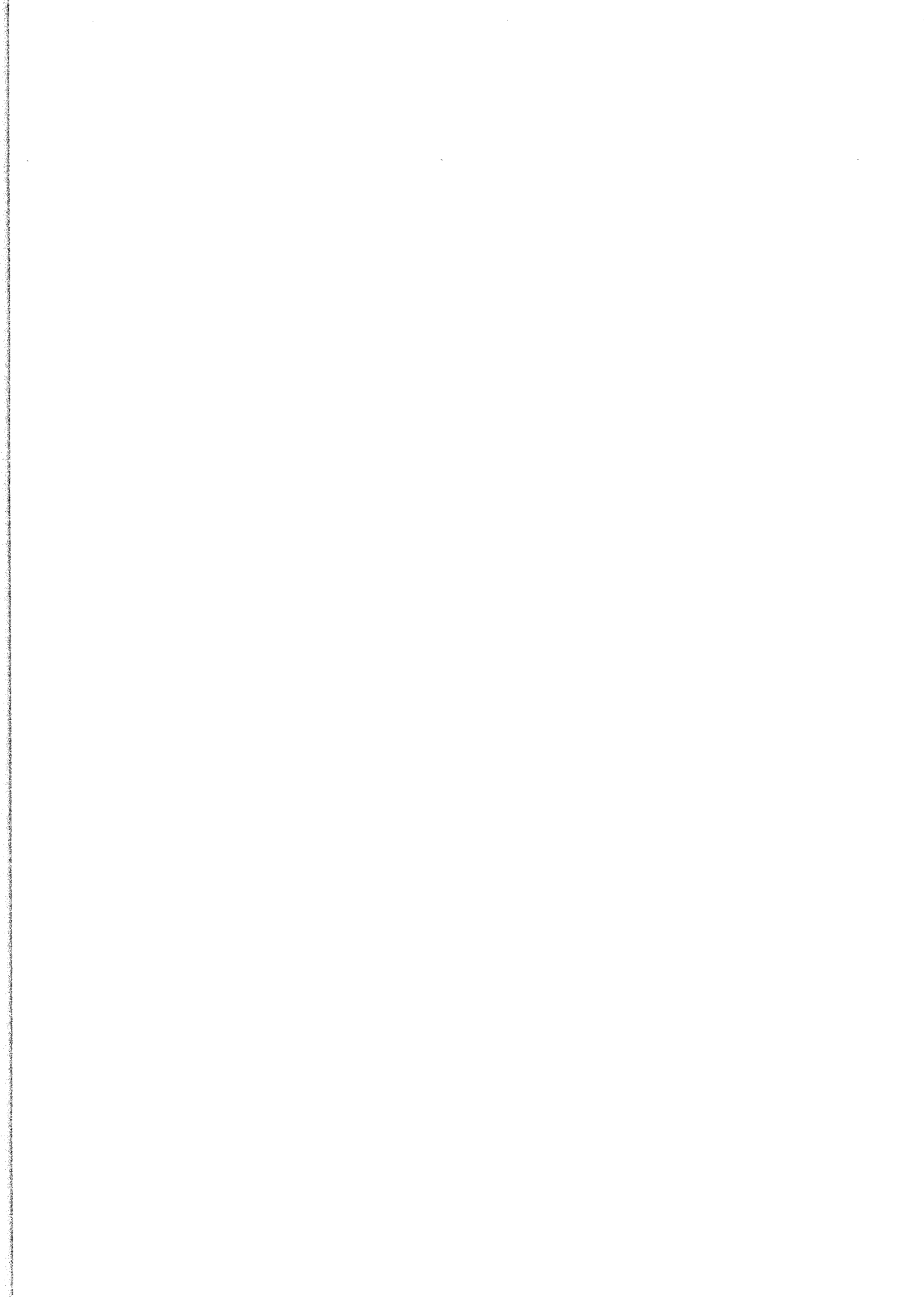
Mynd 3. Gólf og hliðar eru í góðu ásigkomulagi.



Mynd 4. Gólf og hliðar eru í góðu ásigkomulagi.

NDT EHF
WWW.NDT.IS
ndt@internet.is
+354 8440313

Samgöngustofa 

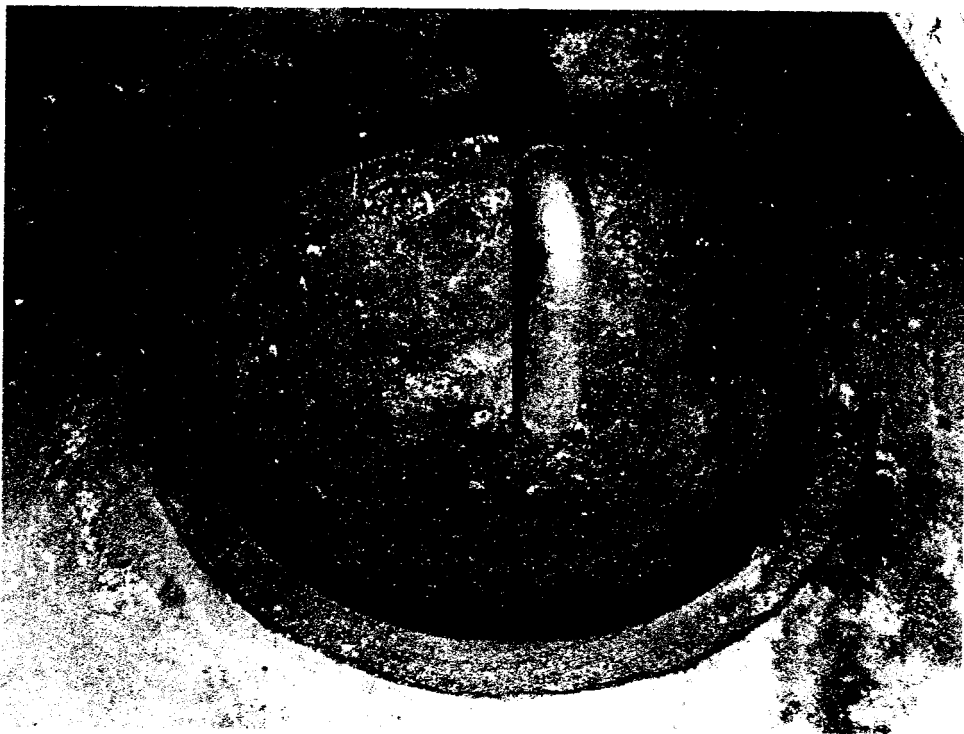


SKELJUNGUR HF
B/T.: BERGSTEINN HIÖRLEIFSSON
BORGARTÚN 26
105 REYKJAVÍK

WNDT
NON DESTRUCTIVE TESTINGS - ICELAND



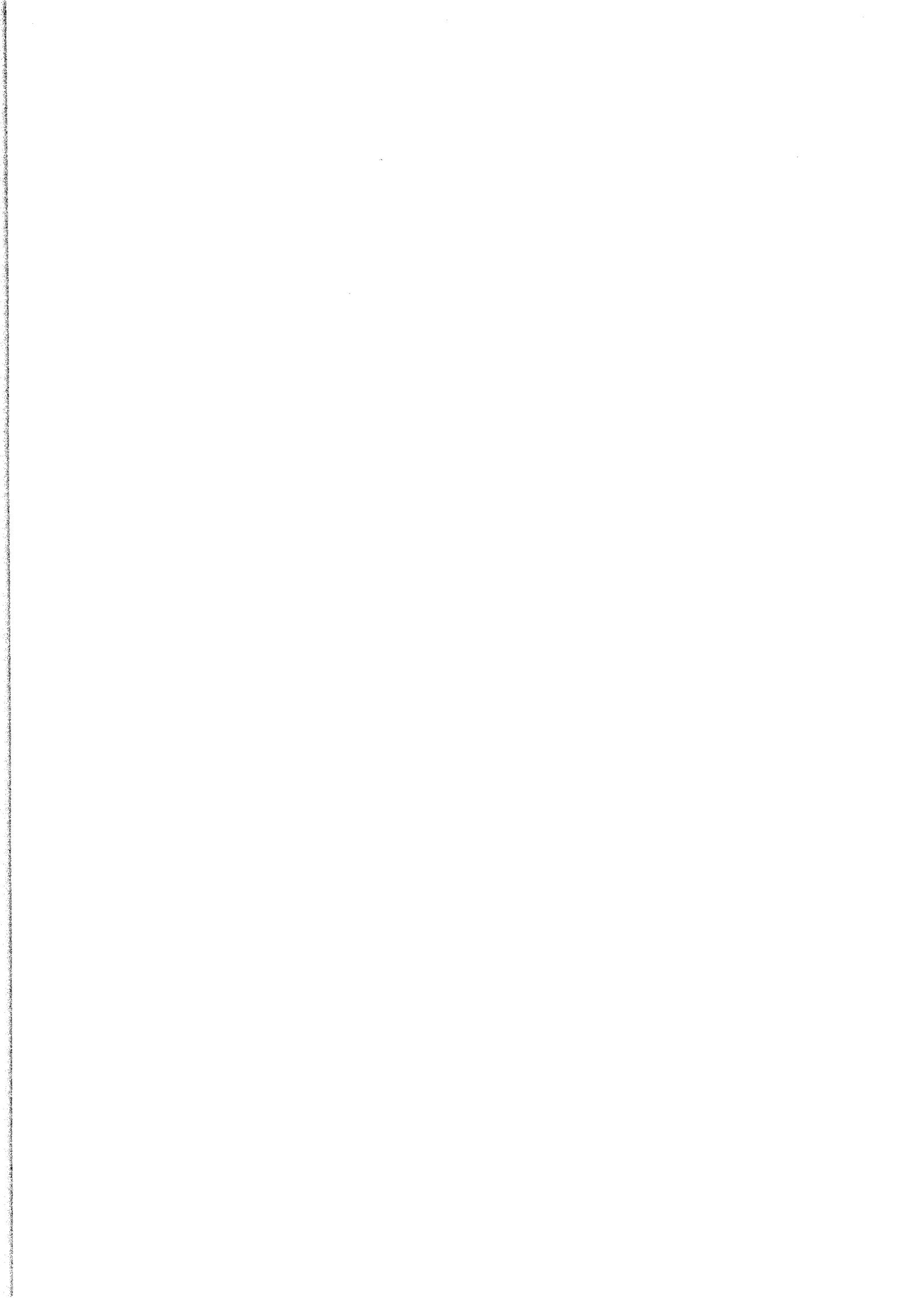
Mynd 5. Geymir lítur vel út að innanverðu.



Mynd 6. Svelgur lítur vel út

NDT EHF
WWW.NDT.IS
ndt@internet.is
+354 8440313

Samgöngustofa 





Certificate No: MNDE/2016/7521
Valid From: 07 September 2016
Date of Issue: 07 September 2016
Issue Office: Southampton GTC
LR File Ref: MNDE/41334

Lloyd's Register Approved Service Supplier

This is to Certify:

***NDT ehf
Sómatúni 18
600 Akureyri
Iceland***

has been assessed and approved in accordance with the requirements of *Lloyd's Register Approval for Thickness Measurement of Hull Structure* as a service supplier for the provision of

Thickness Measurements of Hull Structure

made in accordance with LR's relevant Rules and Regulations for Classification as amended from time to time. The thickness measurements may be used by the surveyors or shipowners' representatives when making decisions affecting classification, statutory certification or the operation of the ship.

Personnel Authorised to carry out Thickness Measurement Survey's pertinent to this approval are listed on page 2 of 2.

The approval is conditional upon the firm maintaining the audited scheme and notifying Lloyd's Register of any significant changes in personnel, equipment or procedures.

This certificate is issued to the above firm and is valid until the date given below.

Expiry Date: 07 September 2019

Philip Leaver
Senior Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group



A member of the Lloyd's Register group. Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.





Certificate No: MNDE/2016/7521
Valid From: 07 September 2016
Date of Issue: 07 September 2016
Issue Office: Southampton GTC
LR File Ref: MNDE/41334

Lloyd's Register Approved Service Supplier

List of Approved Personnel

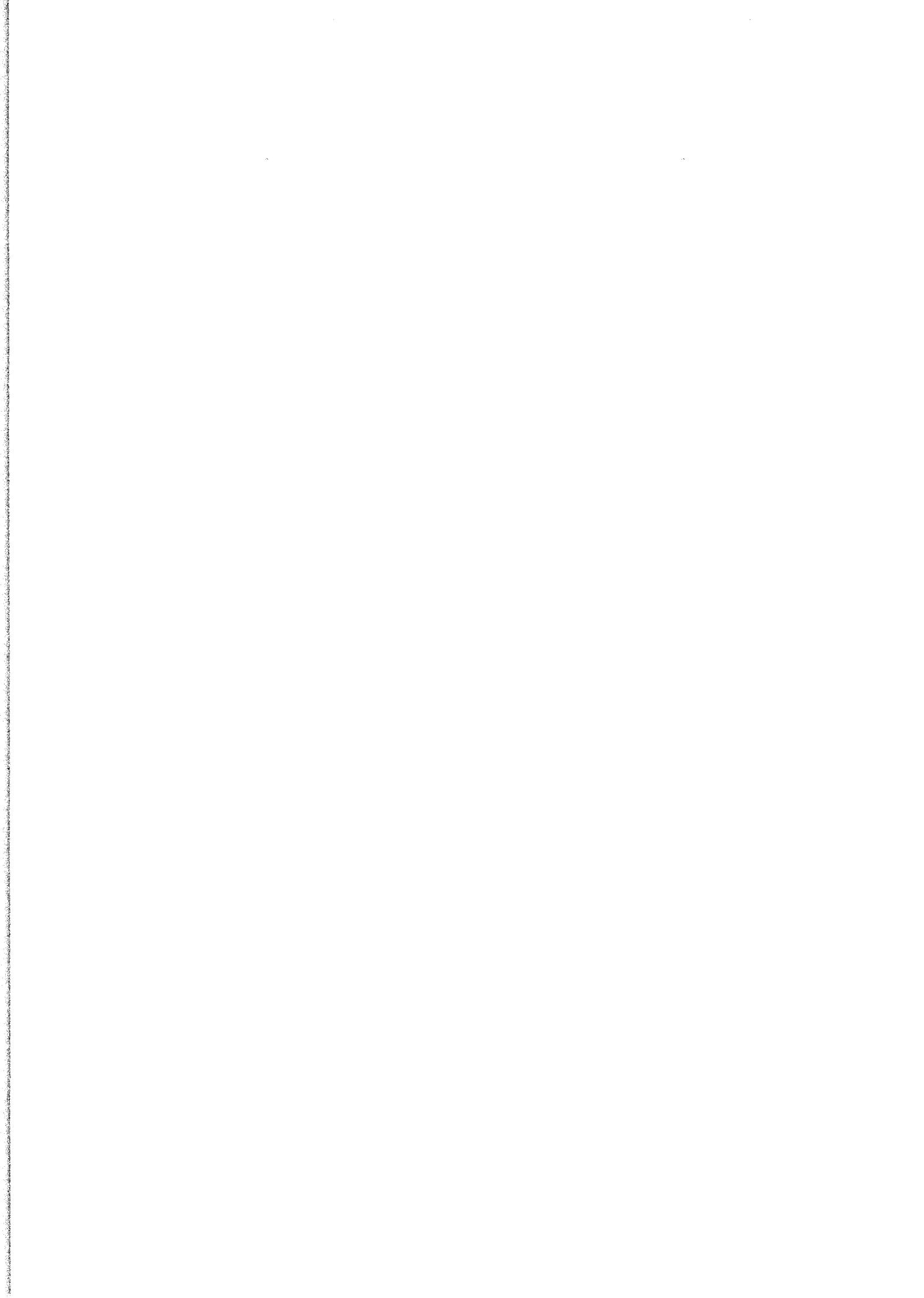
Supervisors

Gisli Arnar Guðmundsson

Philip Leaver
Senior Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group



A member of the Lloyd's Register group. Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.





Lloyd's
Register

CERTIFICATE OF CALIBRATION

LR REYKJAVIK

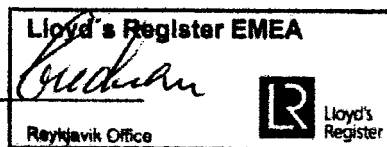
It is hereby certified that thickness measurement gauge, OLYMPUS 45 MG, serial no. 130177407, has been calibrated, by Mr. Guðni Guðnason, using LR's Step wedge no. LR RJK 01, certified on 26. November 2001, by T. Kalland Surveyor to Lloyd's Register Aalborg.

Nominal Value (mm)	Measured Value (mm)	Tolerance (mm)
<u>4,99</u>	<u>5,0</u>	+/- <u>0,01</u>
<u>10,00</u>	<u>10,0</u>	+/- <u>0,00</u>
<u>15,00</u>	<u>15,0</u>	+/- <u>0,00</u>
<u>19,99</u>	<u>20,1</u>	+/- <u>0,11</u>

Reykjavik, 30th August 2016

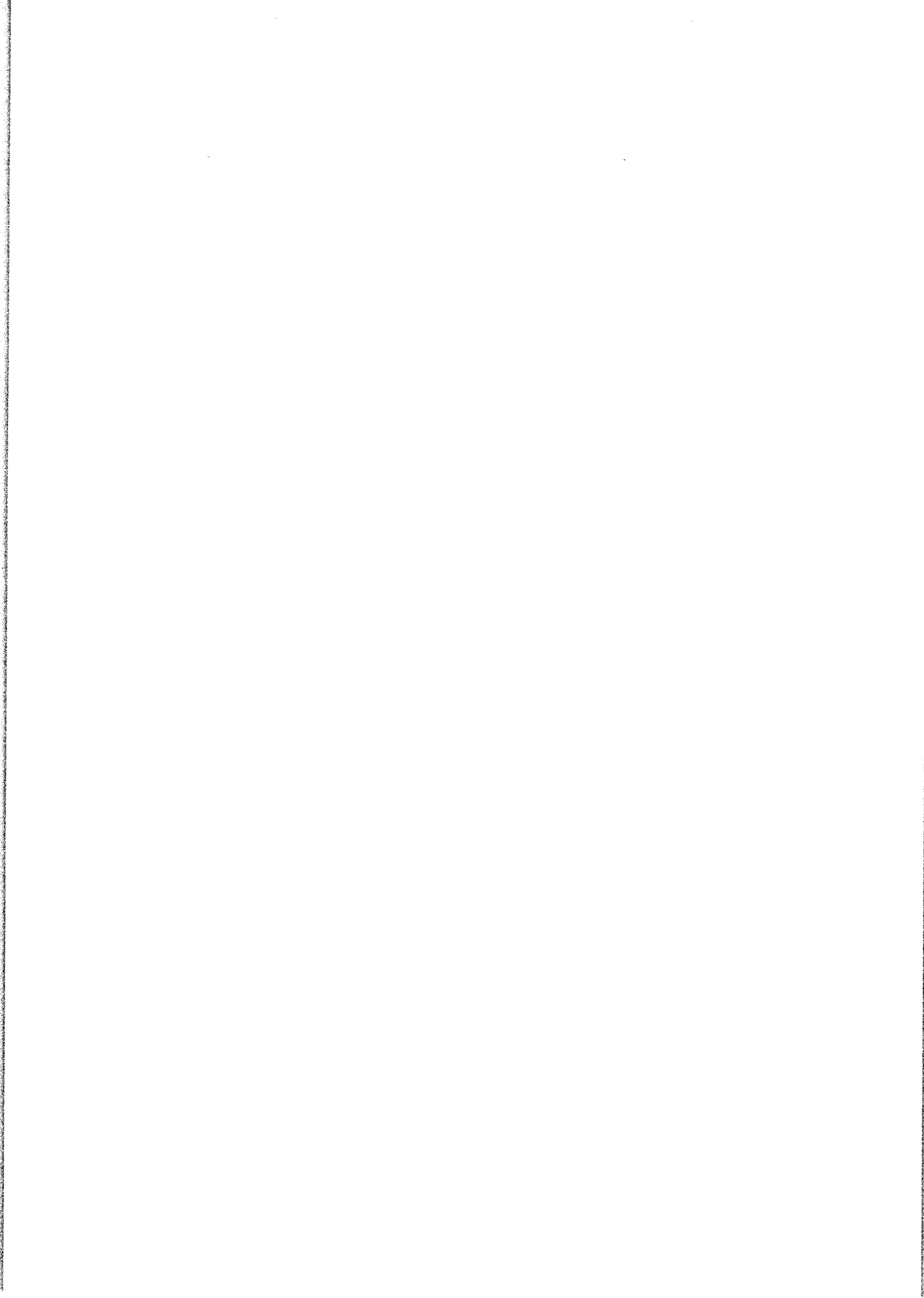
Calibration made by:

Guðni Guðnason



Witnessed by:

Bjarni Ólafsson



MFE Enterprises, Inc.

07/18/2017

Verification Certificate

Scanner ID# MK4-0016-A-TFS
Model: Tank Floor Scanner
Standard Name: MFE-TFSE1
Range: 0-23"
Resolution: 0.024"

Scan #	Encoder Start Point	Encoder End Point	Distance Traveled (Encoder EP-SP)
1 (Forward)	0.000	22.752	22.752
2 (Reverse)	22.752	-0.098	22.850
3 (Forward)	-0.098	22.752	22.850
4 (Reverse)	22.752	0.098	22.850
5 (Forward)	0.098	22.752	22.850
6 (Reverse)	22.752	0.098	22.850

Scan #	Measured Start Point	Measured End Point	Distance Traveled (Measured EP-SP)
1 (Forward)	24.188	1.375	22.813
2 (Reverse)	1.375	24.188	22.813
3 (Forward)	24.188	1.375	22.813
4 (Reverse)	1.375	24.188	22.813
5 (Forward)	24.188	1.375	22.813
6 (Reverse)	1.375	24.188	22.813


Scan #	Distance Traveled (Encoder EP-SP)	Distance Traveled (Measured EP-SP)	Deviation +/-	Tolerance +/-	PASS/FAIL
1 (Forward)	22.752	22.813	-0.061	0.125"	PASS
2 (Reverse)	22.850	22.813	0.037	0.125"	PASS
3 (Forward)	22.850	22.813	0.037	0.125"	PASS
4 (Reverse)	22.850	22.813	0.037	0.125"	PASS
5 (Forward)	22.850	22.813	0.037	0.125"	PASS
6 (Reverse)	22.850	22.813	0.037	0.125"	PASS

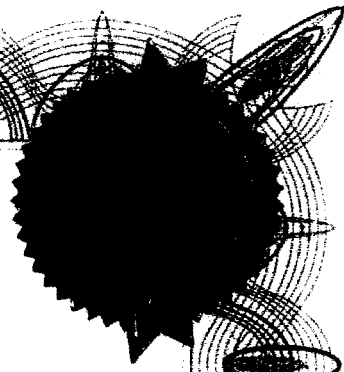
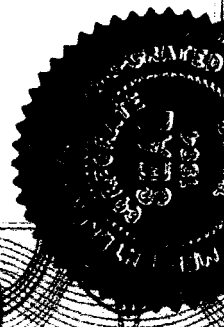
Measurement Tool: MK4-TM001
Encoder Data Log#: stream_data_170718122200

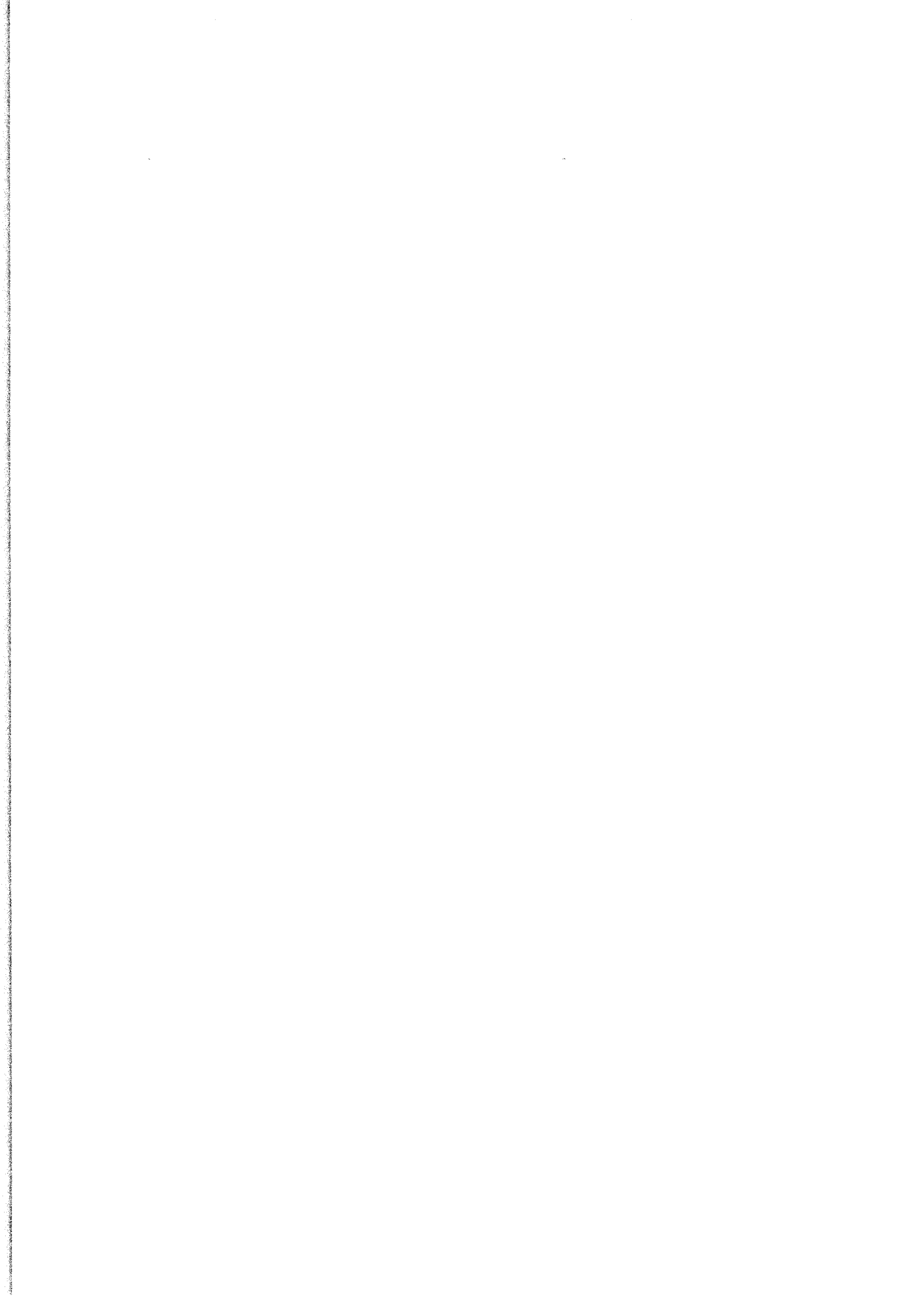
Inspector Name: William Duke

Date of Inspection: July 18, 2017

Certificate Expires: July 18, 2018


WILLIAM DUKE, DIRECTOR OF OPERATIONS





12/08/17

MFE Enterprises, Inc.

THIS CERTIFIES THAT Gisli Gudmundsson

HAS SUCCESSFULLY COMPLETED 40 HOURS OF TRAINING AND PASSED THE STANDARDS
PER API 653 ANNEX G AND SNT TC-1A

Scanner Equipment	MFE Monthly Mapping	
Plate Thickness (1)	100 High	100%
Coating Thickness (6)	100 High	100%
Spot Checks (6)	100 High	100%
100%	100%	100%
050 in. (1)	100%	100%
121 in. (1)	100%	100%
General Construction	100%	100%

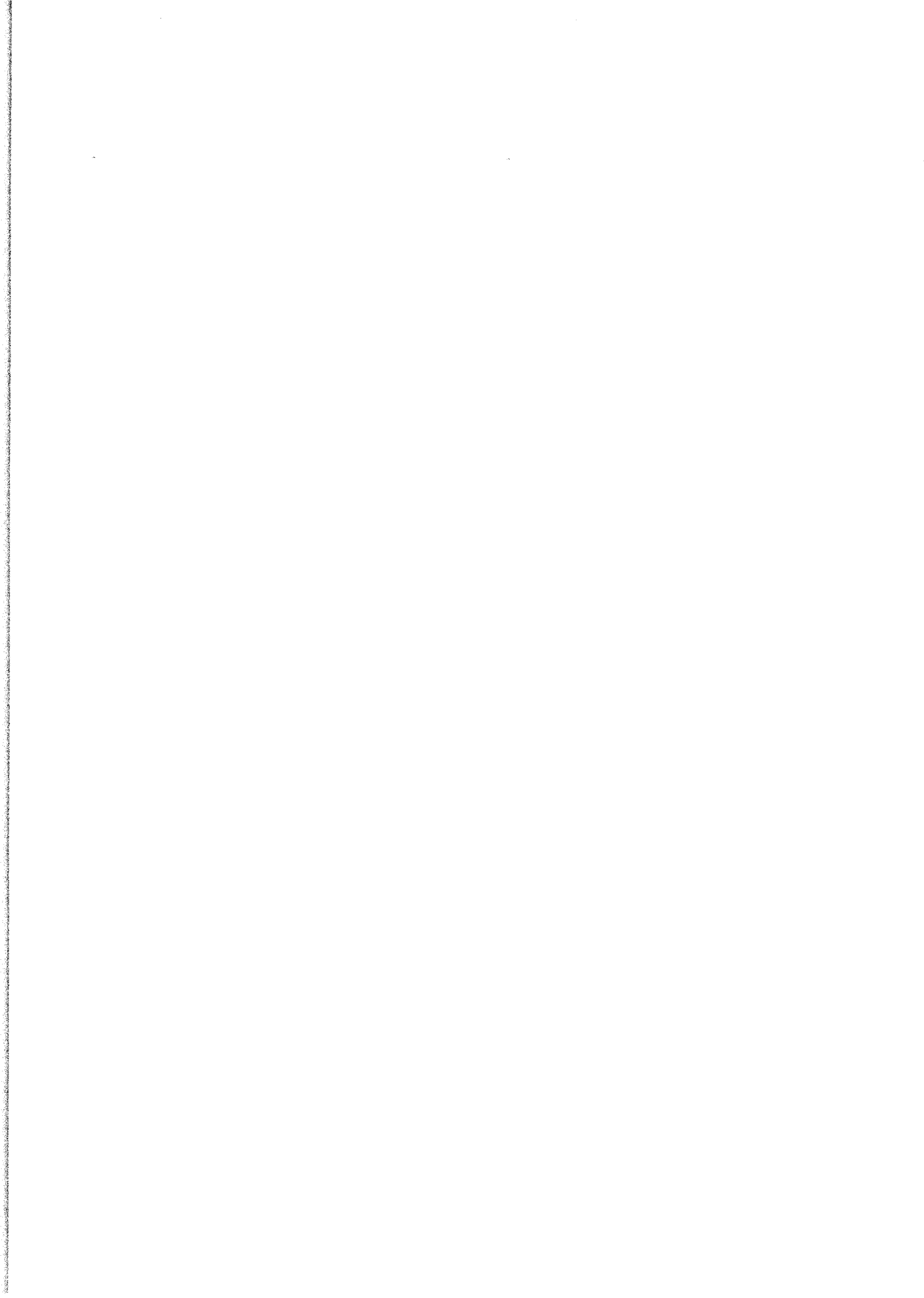
Critical Equipment Functions Function Test Check	40	100%
Hours of MFE Training	40	100%
Total Written Test Score	92%	100%
Final Result	Passed	100%

Bill Duke

BILL DUKE, PRESIDENT

Dylan Duke

DYLAN DUKE, DIRECTOR OF TRAINING



LAVENDER

INTERNATIONAL NDT TRAINING SCHOOL

UNIT 7, PENISTONE STATION, SHEFFIELD, S36 6HP, UK



Tel: (44) (0) 1226 765769 Fax: (44) (0) 1226 760707 E-mail: nicola@lavender-ndt.com

FOR VERIFICATION, PLEASE CONTACT THE ABOVE



Certificate of Training

GISLI ARNAR GUDMUNDSSON

This is to certify that

NDT EHF

of

has successfully completed a course of training in: **ULTRASONIC INSPECTION -- WELDS -- LEVEL 2**

To the syllabus outlined in the document:

PCN GEN ISS 14 2017

Date:

9-10.02.2017

Hours:

8

TUTOR: J P TREWEEK

B SCOTT

ADMINISTRATION ASSISTANT

For Lavender International NDT Consultancy Services Ltd.

67057 dated 10 MARCH 2017

No.

This course is accredited by the British Institute of NDT
QD 258 ISSUE 2 19.05.2016 TRAINING WAS CONDUCTED AT LAVENDER UK WHICH IS A BINDT APPROVED TRAINING ORGANISATION

