

SHIP REPAIR PARTNERS ALL OVER THE WORLD

STEADY MARINE



EFES MARINE



www.marineindustry.net
www.steadymarine.com



EFES MARİNE
ENDÜSTRİYEL MÜHENDİSLİK
İNŞAAT SANAYİ TİCARET LTD. ŞTİ






Our Expertise

- I. **Consultancy & Port Engineering & Reporting**
- II. **Shipyards Selection & Tendering**
- III. **Dry Dock Planning & Management & Assistance**
- IV. **Coating & Structural Inspections**
- V. **Engineering Calculations**
- VI. **Blasting & Coating & Cleaning Execution (in Turkey)**
- VII. **BWTS Prefabrication & 3D Scanning (in Turkey)**



EFES MARİNE
ENDÜSTRİYEL MÜHENDİSLİK
İNŞAAT SANAYİ TİCARET LTD. ŞTİ

Reference Companies

 <p>AMERICAN EAGLE TANKERS</p>	<p>10 Project 2014 – 2018 Shipyard Coating – Repair Consultancy</p>	<p>Abu Shahjalal asjalal@aet-tankers.com</p>
 <p>MINERVA MARINE Inc.</p>	<p>9 Project 2018 - 2019 Shipyard Coating Turkey – Danmark Inspections</p>	<p>Vasilis Tatakis tatakis@minervamarine.com</p>
 <p>REEDEREI JENS & WALLER</p>	<p>7 Project 2014 – 2018 Turnkey Ship Repair – Floating Repair – Coating</p>	<p>Ulf Jens ulf.jens@reederei-jenswaller.de</p>
 <p>DFDS GROUP</p>	<p>2 Project 2017 – 2018 Ballast Tank Coating</p>	<p>Burak Lok bulok@dfds.com</p>
 <p>RMK MARINE - SHIPYARD</p>	<p>2 Project – 2019 BWTS Design, 3D Scanning</p>	<p>Rustem EKICI rusteme@rmkmarine.com.tr</p>

What Do We Offer

- Consulting and Engineering Company (Ship Repair),
- Shipyard Selection & Tender Preparation
- Dry Dock Specification Assistance
- Ship Surveying
- Port Engineer Assistance
- Coating & Structural Inspections and Reporting



What Do We Offer

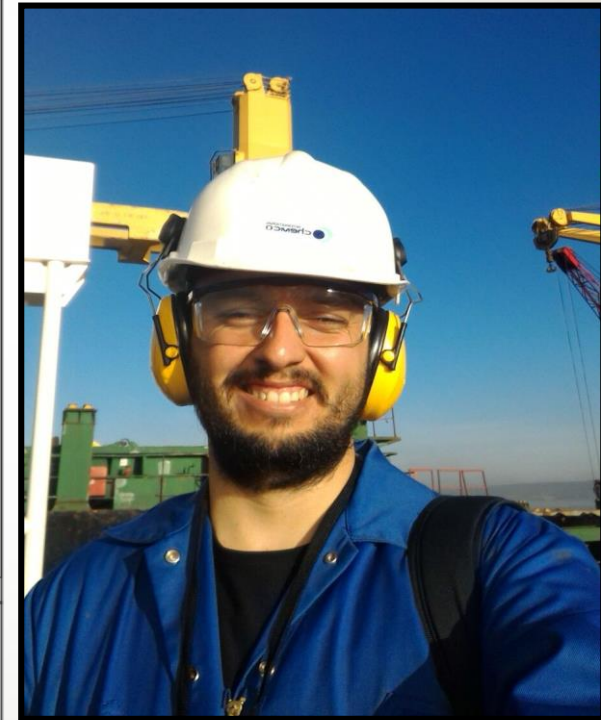
Repair Project Planning & Port Engineering Assistance Services

M&I ENGINEERING SOLUTIONS									
ID	Task Name	Resource Names	Duration	Start	Finish	Sun 3 May	Tue 5 May	Thu 7 May	
1	MV * TOPSIDE TANK COATING PLAN m²		70 hrs	4 May 08:00	7 May 06:00	0	0	0	0
2	No... PS Ballast Tank Coating Renewal with Chemco RS 500P & RA 500M - 1000 m²		62 hrs	4 May 08:00	6 May 22:00				
3	No... PS Mud & Loose Scale Cleaning of Tank	Cleaner[4]	4 hrs	4 May 08:00	4 May 12:00				
4	No... PS Staging	Cleaner[2]	2 hrs	4 May 12:00	4 May 14:00				
5	No... PS Mechanical Surface Preparation	Mechanical Cl	4 hrs	4 May 14:00	4 May 18:00				
6	No... PS Removal of Loose Scales and Coatings From The Surface With Waterjet (~750 bar)	Waterjet App.[2]	12 hrs	4 May 18:00	5 May 06:00				
7	No... PS Removal of the Water From the Tank	Cleaner[3]	4 hrs	5 May 06:00	5 May 10:00				
8	No... PS First Coat Paint Application (RS 500P Rust & Wet Tolerant 100% VS Class Approved Epoxy Coating)	Paint Applicator[4]	6 hrs	5 May 10:00	5 May 16:00				
9	No... PS Stripe Coat (RA 500M - Wet tolerant - VS 100% Class Approved Glassflake Epoxy Coating)	Paint Applicator[4]	6 hrs	5 May 16:00	5 May 22:00				
10	No... PS Final Coat (RA 500M - Glassflake Epoxy)	Paint Applicator[4]	8 hrs	5 May 22:00	6 May 06:00				
11	No... PS Restaging and Tank Cleaning	Cleaner[4]	4 hrs	6 May 12:00	6 May 16:00				
12	No... PS Ballasting of the Tank	Captain	2 hrs	6 May 20:00	6 May 22:00				
13	No... STBD Ballast Tank Coating Renewal with Chemco RS 500P & RA 500M - 1000 m²		66 hrs	4 May 12:00	7 May 06:00				
14	No... STBD Mud & Loose Scale Cleaning of Tank	Cleaner[2]	8 hrs	4 May 12:00	4 May 20:00				
15	No... STBD Staging	Cleaner[2]	2 hrs	4 May 20:00	4 May 22:00				
16	No... STBD Mechanical Surface Preparation	Mechanical Cl	4 hrs	4 May 22:00	5 May 02:00				
17	No... STBD Removal of Loose Scales and Coatings From The Surface With Waterjet (750 bar)	Waterjet App.[2]	12 hrs	5 May 02:00	5 May 14:00				
18	No... STBD Removal of the Water from the tank	Cleaner[3]	4 hrs	5 May 14:00	5 May 18:00				
19	No... STBD First Coat Paint Application (RS 500P Rust & Wet Tolerant 100% VS Class Approved Epoxy Coating)	Paint Applicator[4]	6 hrs	5 May 18:00	6 May 00:00				
20	No... STBD Stripe Coat (RA 500M - Wet tolerant - VS 100% Class Approved Glassflake Epoxy Coating)	Paint Applicator[4]	6 hrs	6 May 00:00	6 May 06:00				
21	No... STBD Final Coat (RA 500M - Glassflake Epoxy)	Paint Applicator[4]	8 hrs	6 May 06:00	6 May 14:00				
22	No... STBD Restaging and Tank Cleaning	Cleaner[4]	4 hrs	6 May 20:00	7 May 00:00				
23	No... STBD Ballasting of the Tank	Captain	2 hrs	7 May 04:00	7 May 06:00				

Task		External Milestone		Manual Summary Rollup	
Split		Inactive Task		Manual Summary	
Milestone		Inactive Milestone		Start-only	
Summary		Inactive Summary		Finish-only	
Project Summary		Manual Task		Deadline	
External Tasks		Duration-only		Progress	

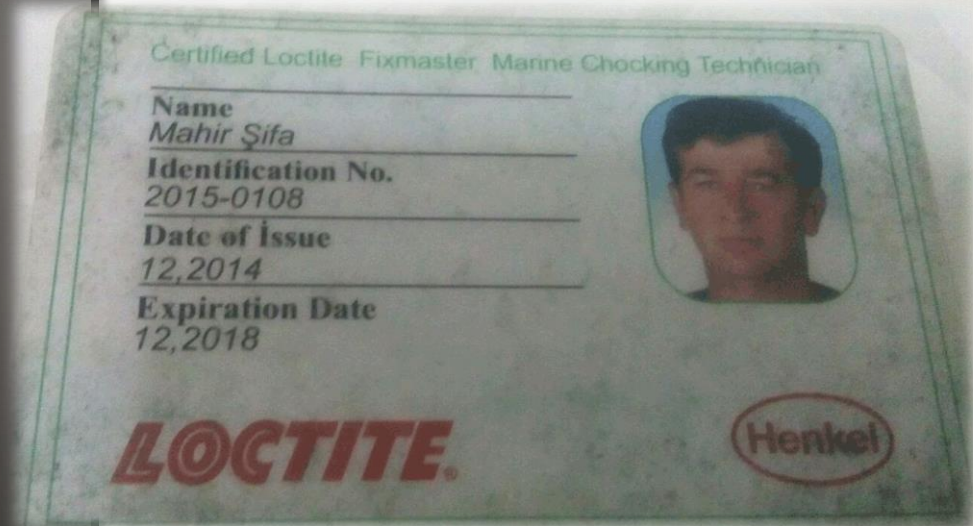
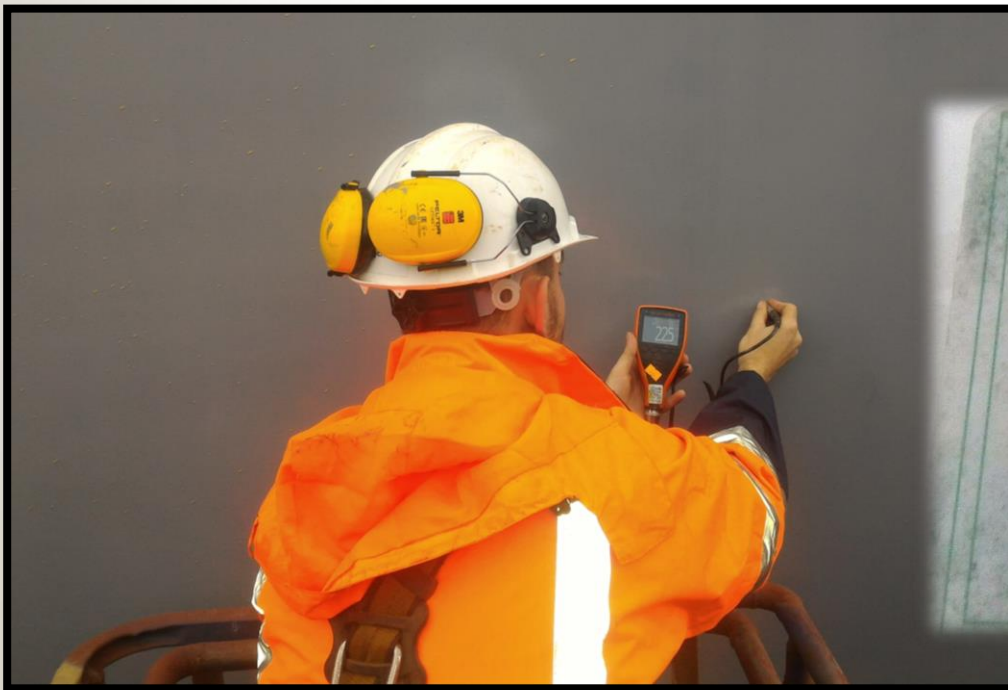
Project: MV **

Page 1 - Faruk AVCIOGLU - solution@marineindustry.net



What Do We Offer

- Engineering Company (Ship Repair)
 - Ship Repair Projects – Pre-Purchasing Inspections
 - Naval Architecture & Stability Calculations
 - Chockfast Orange – Loctite Application (In Turkey only)



Our Team

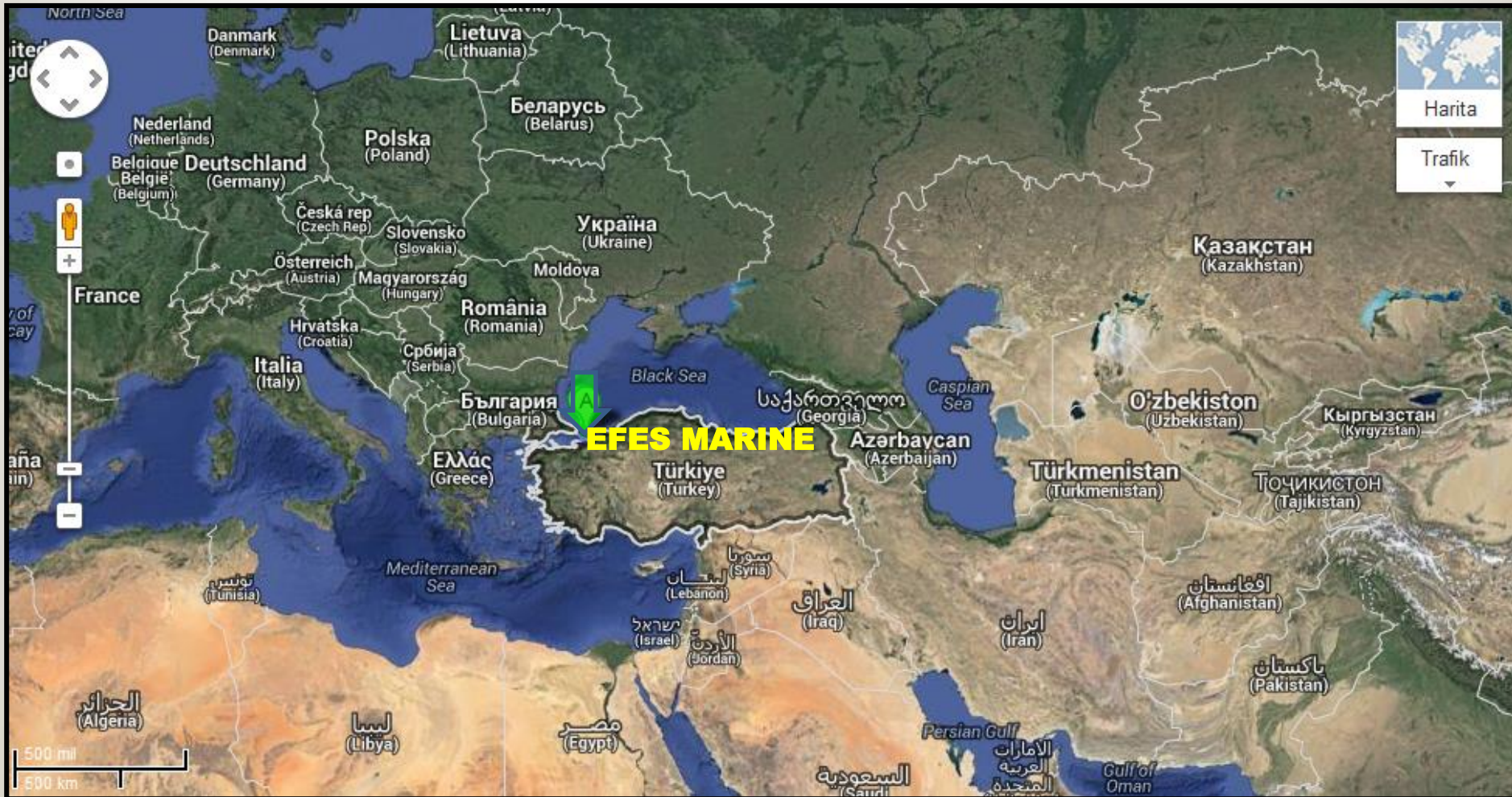
TECHNICAL TEAM

No:	Title	Duty	Working Concept
1.	Naval Arc. & Marine Eng.	Surveyor, Inspector, Project M. - PMP (#2)	Repair Projects, Coating Applications, Consultancy, PMP Certified
2.	Naval Arc.	Design, Project E. (#3)	BWTS, Coating Applications Scrubber Design (Just started).
3.	Workshop Team (Turkey)	Workers (#6)	Workshop (Blasting & Painting)
4.	Application Team	Workers (#8 - #40)	Project Based (Tank Cleaning, Coating, Piping etc.)(Can be increased)
5.	Mechanical Team	Technician (#6)	Waterjet Repairs, Chocking compounds

Our Offices

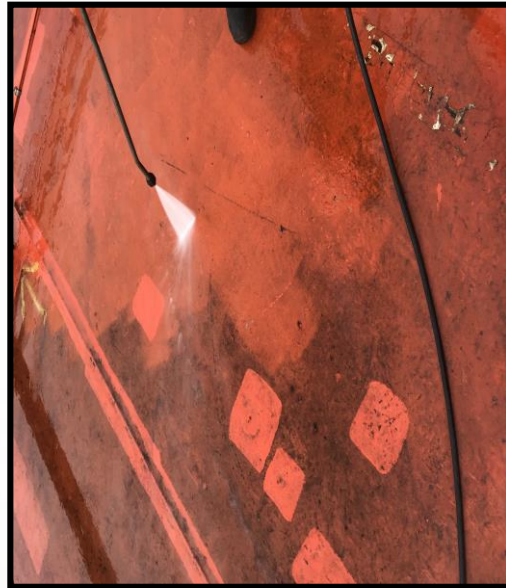


Our Offices



Some of Projects Done

➤ Deck Coating in Anchorage – Eagle Tucson



~ 30 – 48 hours all main deck washing and painting can be completed.

* MT EAGLE TUCSON – 30 hours ~14.000 m² washing and 1 final coat application. (Make up application after docking).

Some of Projects Done

➤ Tank Inspections – Danmark (Skagen) – Minerva Zoe

MINERVA MARINE Inc.

Today 14 January

Time	Forecast	Temp.	Precipitation	Wind
08	☾	2°		19 ↘
09	☀	2°		19 ↘
10	☀	2°		17 ↘
11	☀	2°		16 ↘
12	☀	3°		16 ↘
13	☀	3°		15 ↘
14	☀	3°		15 ↘
15	☀	3°		16 ↘
16	☀	3°		16 ↘
17	☾	3°		16 ↘
18	☾	3°		17 ↘
19	☾	3°		17 ↘

Some of Projects Done

➤ Cement Carrier Inspection – Haiti – MV Turbocem



Pre-purchasing inspection completed in 36 hours included engine room, cargo operations, tanks and accommodation.

Some of Projects Done

- Blasting and Painting – MV TRANSPORTER (Livestock Carrier)



SA2 grid blasting and 2 coat painting of decks – **15.500 m²** (6 deck) **in 9 days**



Some of Projects Done

- Ballast Tank Coating – 1000 bars WJ – Minerva Helen



Local washing and painting application carried out.



Some of Projects Done

- Ballast Tank Coating – 1000 bars WJ – Minerva Concert



Local washing and painting application carried out.



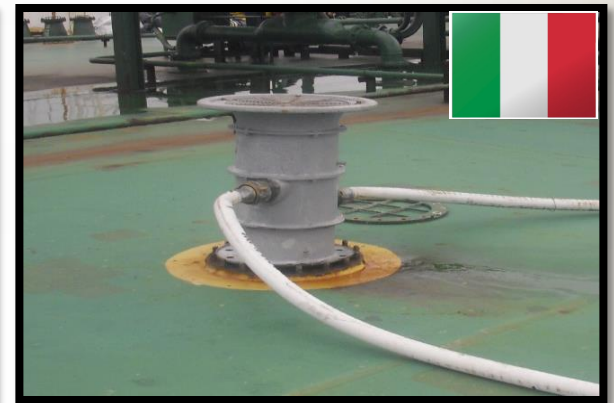
Some of Projects Done

➤ Anchorage Repairs – Rope Access Painting – MV NADA



Some of Projects Done

- Cleaning Services For Vessels – MT Valle Bianca



Some of Projects Done

➤ Cleaning Services For Vessels



MT TESEO - 308 m³ solid sludge cleaning
BSM – Feb.2017 – 8 days at anchorage

TANK CLEANING WORKS - WORKDO



VESSEL NAME	MT TESEO	DATE		
TANK NAME	Slp Part	WORK SCOPE	Sludge Cleaning	

GENERAL INFORMATION

Item	Description	Comment	Item	Description	Comment
Initial Training			Initial Inspection		
Washing			Lightening		
Prewash			Ventilation		
Salt Water			Air Temperature °C		
Use Chemical			Sea Temperature °C		
Salt Water			Sludge m ³		
Fresh Water			Tank Volume m ³		

DONE: D NOT DONE: ND NO NEEDED: NN NOT APPLICABLE: N/A

WORKDONE

Description	Unit	Quantity
Collection of cumulated sludge inside the tank with plastic bags and transferring the bags from tank top to main deck level.	m ³	-54,50-

NOTES / COMMENTS:

Handling, salt damage (Zerüdd) during sludge removal

MT TESEO
C.A. 2004-03-07
REG. NO. 7
GT 24.000 MT
NT 29.000 MT
DWT 22.000

VESEL





**BERNHARD SCHULTE
SHIPMANAGEMENT**

S.A.
CLEANING TEAM

Some of Projects Done

- Bulk Carrier – Container – Turnkey Yard Repair – MV PAUL – TINGHIR



Some of Projects Done

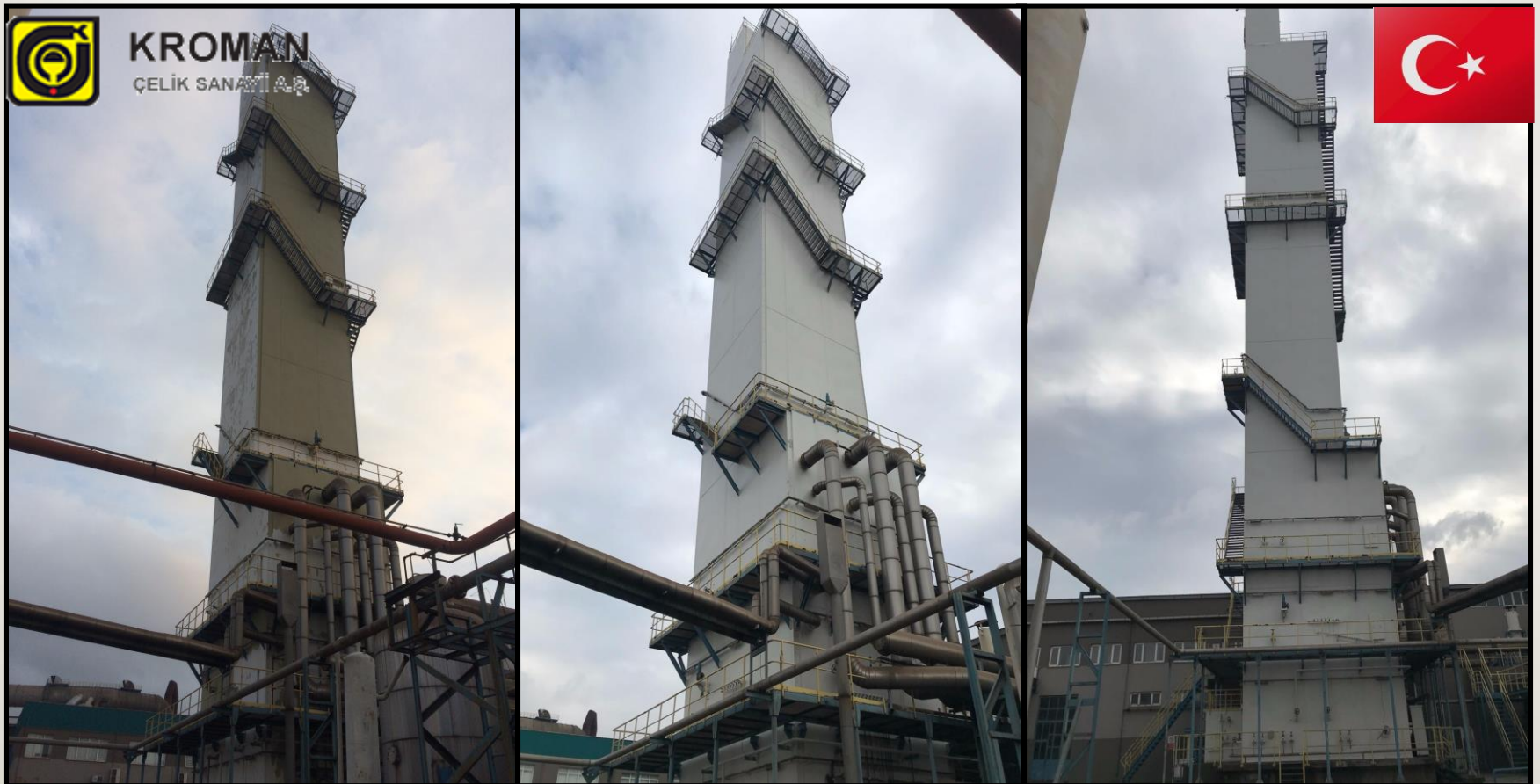
- RoRo Vessel – Ballast Tank Coating – Un Karadeniz



Some of Projects Done

2.000 m² - Waterjetting & Mechanical

Height: 58 m. – Nitrogen Tank Coating Application



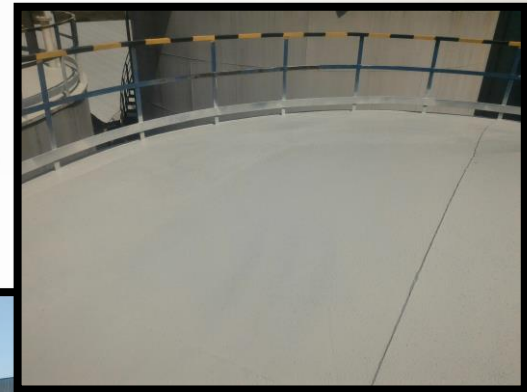
Some of Projects Done

- Blasting Workshop (Repairs And Applications – Stand By)



Some of Projects Done

- Working in Both Marine & Industrial Projects
 - Floor Epoxy Application,
 - Non Skid - Composit Deck Application,
 - Industrial System Coating Application.



We Represent

Project Management Professionals



PMI Approved Certification

www.pmi.org

We Represent

REPRESENTATIVE & TECHNICAL SERVICE OF



INTERNATIONAL
chemco
PROTECTIVE COATINGS

Class Approved Tank Coating Solutions

www.chemcoint.com

We Represent

- Solvent free epoxy system,
- **Wet & rust tolerant** system (surface tolerant),
- **Class approved** system,
- Can apply on hull, cargo tanks holds, fresh water tanks,
- Scrubber System, BWTS coatings.
- Steam Line etc.



www.chemcoint.com

We Represent

REPRESENTATIVE & TECHNICAL SERVICE OF



Waterjetting Equipments Nozzle Manufacturer

www.mvt.ch

3D Scanning, Designing, Prefabrication – BWTS

MODS	QUAN	UNITS	DESCRIPTION	BUILD	MYRL NO.	AC
1	239	MM	114.3x6.3 Dikisiz Celik Bonu Sct37.2 Class III	139		
2	191	MM	114.3x6.3 Dikisiz Celik Bonu Sct37.2 Class III	91		
3	1	PCS	Slip on Flange DN100 PN16 Sct37.2 Class III	7		
4	1	PCS	Elbow 90 acisiz 1.5D 114.3x6.02 Sct37.2 Class III	305		
5	1	PCS	Slip on Flange DN100 PN16 Sct37.2 Class III	7		

3	0.0	LOOSE				
4		E 4 :				
5	0.0	LOOSE				
5		E 4 :				

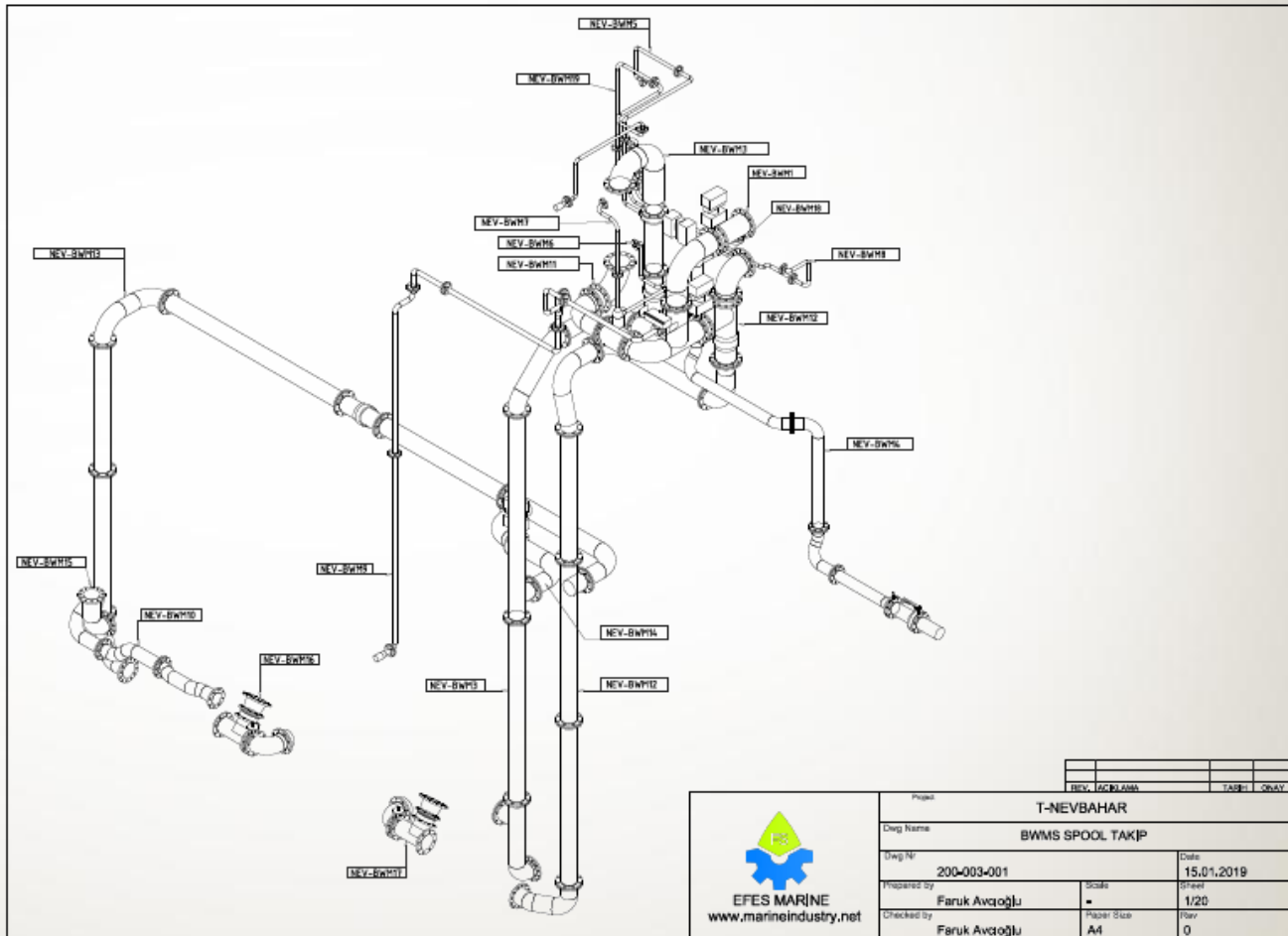
CONNECTION	FEED	ROT.	BEND
(1) T1-NEV-BWMS-108			

POS	ROT	INCL	TURN	REMARKS
(1)				
(2)				
(3)				
(4)				

JOINT PRP	HEAT TRMT	SHOP PRS	WELD	TREATMENT

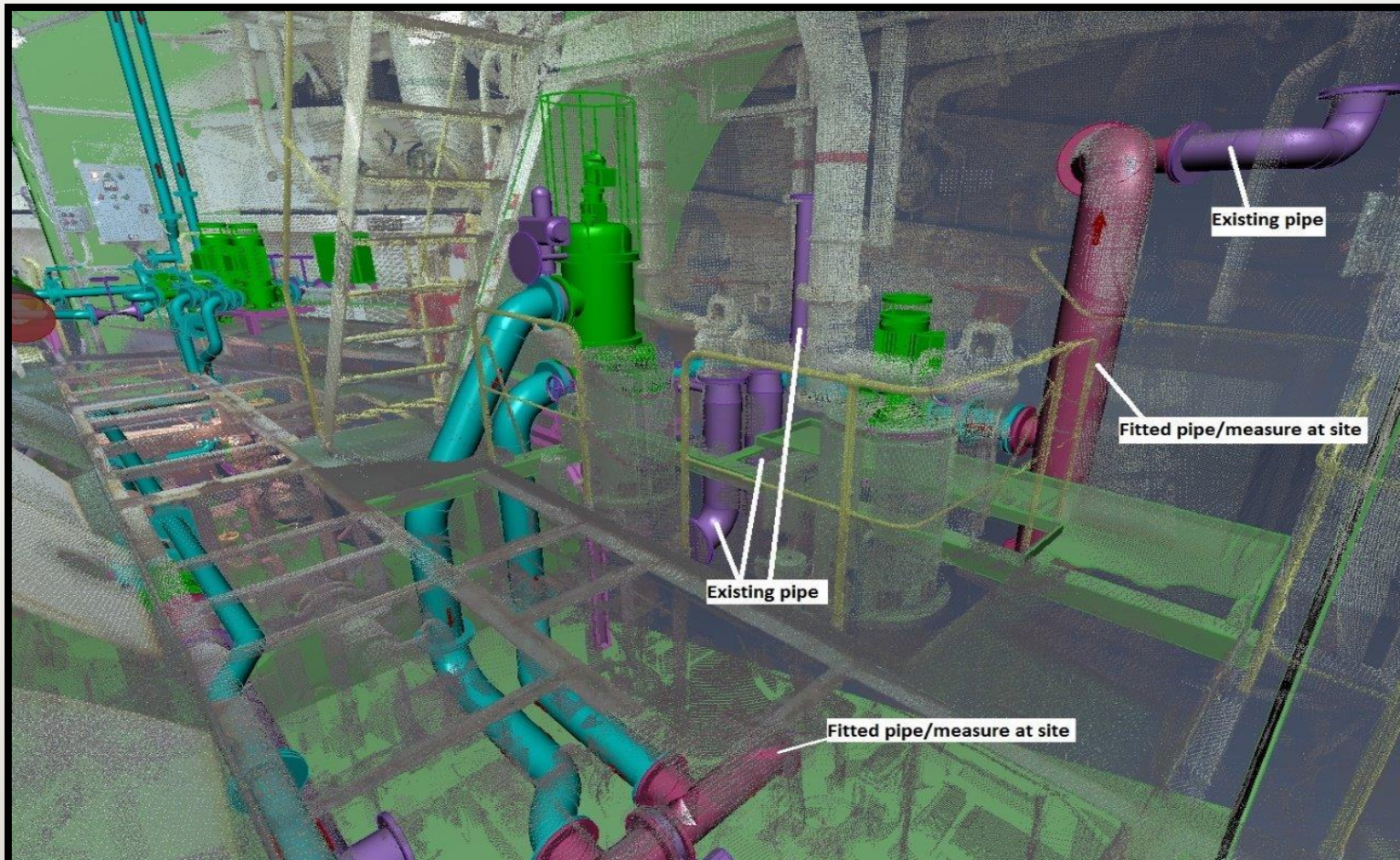
NOTES	DRAWN BY	RAD	WEIGHT	DATE
	FARUK AVCI OGLU		17	18-12-29

DESCRIPTION	SHIP	SKETCH NAME
	T-NEVBAHAR	NEV-SWMS33-005 Yerinde imalat

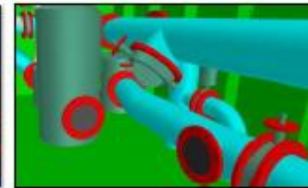
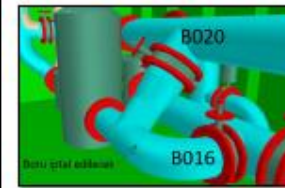
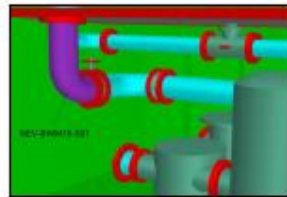
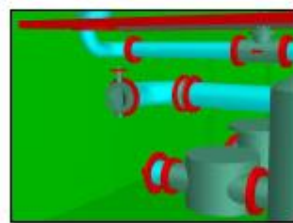
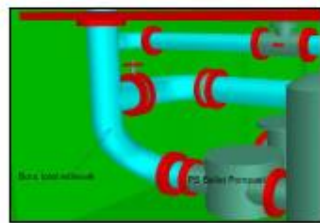
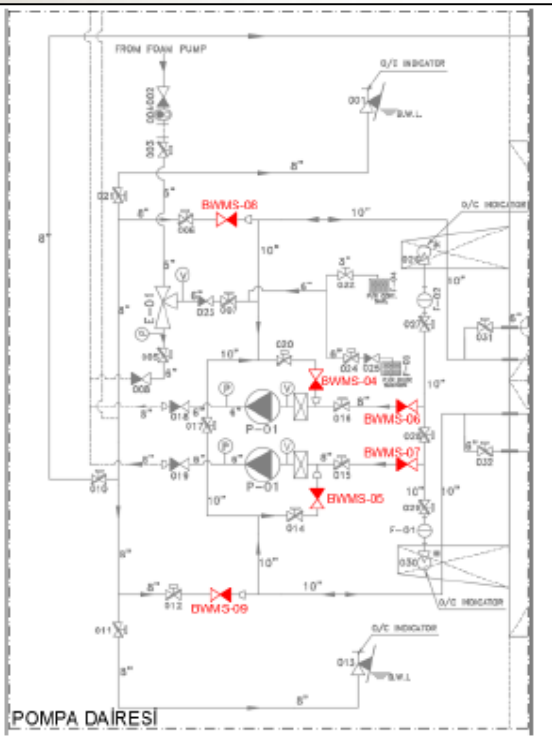


 EFES MARINE www.marineindustry.net	Project		T-NEVBAHAR	
	Dwg Name		BWMS SPOOL TAKIP	
	Dwg No	200-003-001	Date	15.01.2019
	Prepared by	Faruk Avcioglu	Scale	1/20
	Checked by	Faruk Avcioglu	Paper Size	A4

3D Scanning, Designing, Prefabrication – BWTS

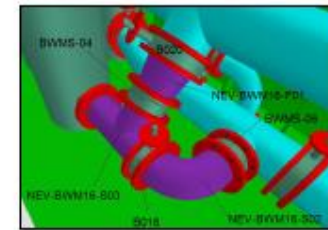


3D Scanning, Designing, Prefabrication – BWTS



Şekil 1. (Mevcut Hal)

Şekil 2. (Boru söküldükten sonra)



Şekil 3. (Yeni hal)



➤ Coating Application Company – Consultancy

- Blasting & Painting Works With Our Own Equipments (in Turkey),
 - 132 Atlas Copco Compressor – 2 pcs.,
 - 3 pcs 75 KW Vacuum Cleaner, Silos.
 - Dehumidifier – 2 pcs.
 - Paint Pumps - 12 pcs. Graco Wiwa
 - Tank Heater – 3 pcs,



➤ Coating Application Company (in Turkey)

➤ Waterjetting & Painting

- 8 pcs. 1400 bars – 60 liter (Tritan) - Diesel,
- 2 pcs. 1000 bars (Combijet) - Electrical,
- 1 pc. 800 bars,
- 1 pc. 750 bars Woma,
- 3 pcs. 400 – 500 bars,
- 1 pc. 250 bars hot water wash.



➤ Tank Cleaning

➤ Exproof Systems

- 35 pcs. Ex-proof headlamps
- 4 pcs. Ex-proof crane,
- 12 pcs. pump ,
- 8 pcs. Ex-proof ventilation fan,
- 8 pcs. Ex-proof projector,
- IBC tanks etc..



PERMIT TO WORK FOR ENTRY INTO ENCLOSED/CONFINED SPACE



VESSEL NAME		DATE/HOURS	
IMO NUMBER		LOCATION	
VESSEL MASTER		WORK DEFINITION	
RESPONSIBLE PERSON FROM CLEANING TEAM		CHIEF OFFICER	

Checklist Items:	Confirm	Comment
1 Space thoroughly ventilated		
Atmosphere tested and found safe		
2 Oxygen % vol (21%)		
Hydrocarbon % LFL (less than 1%)		
Toxic gases ppm (less than 50% OEL of the specific gas)		
3 Space secured for entry		
4 Rescue and resuscitation entrance		
5 Testing equipment available for regular checks (Gases Detectors etc.)		
6 Responsible person in attendance at entrance		
7 Communication arrangements made between person at entrance and those entering		
8 Access and illumination adequate		
9 All equipment to be used is of appropriate type (Exproof etc.)		
10 Personal protective equipment to be used (Boiler Suits, Helmet etc.)		
11 Hard hat, safety harness as necessary		
12 When breathing apparatus is being used		
(i) Familiarity of user with apparatus is confirmed		
(ii) Apparatus has been tested and found to be satisfactory		

NOTES / COMMENTS:

.....

.....

.....

VESSEL
SIGNATURE

CLEANING TEAM
SIGNATURE

www.marineindustry.net



TURNKEY SOLUTION PARTNER



www.steadymarine.com



EFES MARİNE
ENDÜSTRİYEL MÜHENDİSLİK
İNŞAAT SANAYİ TİCARET LTD. ŞTİ

www.marineindustry.net