
CURRICULUM VITAE

NAME : Ferdinando Moretti
DATE OF BIRTH : 28 November 1965
NATIONALITY : Italian
MOTHER LANGUAGE : Italian
ADDITIONAL LANGUAGES : English (Sound working knowledge)
ADDRESS : Udine, Via Postumia 9 Udine 33100 Italy
TELEPHONE : Off. +39-0432-234933; Mob. 334-8243888
E-MAIL : info@ferdinandomoretti.com
WEB SITE : www.ferdinandomoretti.com
SKYPE : ferdi.moretti



EDUCATION:

- Electronic Engineering College (Industrial Technical Institute "A. Malignani" – Udine) 1985-1990
- 3-year frequency of Faculty of Philosophy (University of Trieste) 1990-1993

COMMODITY SPECIALITY:

COURSES:

- International Welding Technologist -IWT N°080048A-** (at the Italian Institute of Welding, Genoa 2008).
- International Welding Specialist** (at the Italian Institute of Welding, Genoa 2000).
- NDT Level II** qualification in **MT, PT, RT,VT,UT** as per UNI EN ISO 9712-2012; PED 97-23-CE
- NDT Level II** qualification in **UT-TOFD** as per UNI EN ISO 9712.2008.
- Coating Inspector Level A** -INAC No. 239-(at the Italian Institute of Anticorrosion, Milan 2010)
- Training on Heat Treatment** on steel works, forging and non ferrous materials (at the AIM -Italian metallurgic Institute).
- Saudi Aramco Inspector** for: Pressure Vessels and Heat Exchangers (QM03/04/13/14/15/30/31/34).
- Quality Assurance Systems Auditor.** Courses held by RINA (Italian Naval Register) organized by the Chamber of Industry North-East Italy. Attendance on behalf of Mangiarotti.

Planned for current year -2017- a training course on UT-Phased Array Technique and on Base Metallurgy for Heat Treatments to improve my professional skills.

PROFESSIONAL EXPERIENCES:

Manufacturer Shop Quality Control Management on the following items and matters:

- Pressure Vessels, Columns and Reactors
- Heat Exchangers -several typologies-
- Big Boilers
- Forging and Casting

- e. Non Destructive Examination on several steel materials
 - f. Destructive Examination Tests on several steel materials
 - g. NDT and DET on coating/painting
- (See below for experience list details)

WORKING HISTORY:

My name is **Ferdinando Moretti**. I was born in 1965, I'm married, I have two daughters and I live in Udine, a small town in a region called "Friuli-Venezia Giulia" in the North East of Italy.

I **began working in 1982** and **since 2006** I have been working as a freelance **Welding Inspector** in the Oil & Gas sector covering the North of Italy. I am specialized on the following items: **pressure vessels** -several sizes and materials SS, CS, for low and high temperature-; **reactors/separators** -heavy wall thk in Cr, Mo, V (API 934-A); **heat exchangers** -different typologies as per TEMA-R-, **valves** -several sizes and types- (API Standard); **big boilers**. I periodically performed checks on **forged and cast products** and sometimes monitored the painting activities as a coating inspector. **The list of all projects that I worked on can be seen below.**

My **professional experience** in the pressure vessels construction and inspections started in a world-leading company -Mangiarotti Spa- where I worked as a contract execution manager for inspection and testing. I covered the same role as a consultant, enriching my experience in the workshop, including a specific development in **metallurgy, welding and inspection on weld joints**. Moreover, sometimes I acted as a **teacher in secondary schools** as a welding/metallurgic specialist.

In recent years I focused my working experience as a lead welding inspector on several projects regarding **heavy wall Thk in Cr, Mo, V material** Reactors and Separators on behalf of FLUOR; KBR; JGC; Conoco-Phillips; FW-CHS; Hargrove-Chevron. I'm currently involved on behalf of Fluor in PJV project for the construction of No. 25 Pressure Vessels several materials/dimensions.

2014/16 were very important years for my activity and my professional knowledge with two main projects successfully completed and other work engagements listed below:

In January 2017, I delivered No.5 Reactors (Jazan Project) and worked as appointed inspector following the fabrication process. SAIPEM, at the end of the project, sent me their comments on my performance.

Da: La Malfa Paolo (External) **Inviato:** lunedì 9 gennaio 2017 13:54 **A:** Ferdinando **Cc:** Villa Massimiliano; Gargano Nicolò **Oggetto:** R: Uscita progetto Jazan F. Moretti

Ferdinando

Ti ringrazio per la mail e per la fattiva collaborazione sul progetto, ancora un ultimo sforzo per il mese di gennaio e poi ti lasciamo andare ;-)

Best Regards

Paolo La Malfa (PQCM)

JIGCC Jazan Project PK1

Tel: 0039 02 442 49547

Gargano Nicolò

A: Ferdinando Moretti Cc: Villa Massimiliano La Malfa Paolo (External)

R: Uscita progetto Jazan F. Moretti

Ciao Ferdinando,

approfisso dell'email di Paolo per ringraziarti per la professionalità e la collaborazione dimostrata sul progetto.

In bocca al lupo per il nuovo lavoro e buon anno anche a te.

Ciao

Nicolo

In September 2016, I delivered No.1 Reactors-Hydrotreaters (Pascagoula Chevron Refinery -US-) and worked as appointed leading inspector following the fabrication process, overviewing all main-parts and sub-suppliers. Greg Magner, at the end of the project, sent me their comments on my performance.

From: Greg Magner **Sent:** Tuesday, October 20, 2015 11:08 AM **To:** Ferdinando;

Ferdi,

-We appreciate the excellent reporting you have done for us.

-I am impressed with your reports - keep up your good work, we appreciate your contribution.

Thank-you and Regards,

Greg Magner | Quality Assurance Leader -Hargrove Engineers/Chevron-

Hargrove Engineers + Constructors

In March 2016, I delivered **No.4 Reactors-Hydrotreaters (CHS Laurel Refinery -Montana-)** and worked as appointed leading inspector following the fabrication process, overviewing all main-parts and sub-suppliers. **CHS**, at the end of the project, sent me their comments on my performance.

From: Kevin Gaskin <Kevin.Gaskin@chsinc.com>

Oggetto: F. Moretti -Project FW/CHS Laurel Montana- **Data:** 19 gennaio 2015 16:04:37 GMT+01:00

A: Ferdinando Moretti <ferdinando.moretti@alice.it>

Ferdi,

- Your report is well written and very thorough.

- As always...thank you for your professionalism

Kevin Gaskin

Quality Manager CHS Inc. (Cenex Refinery) Laurel MT US

In September '14, I delivered **Two LPH Hot High Pressure Separators for KBR (TAIF-NK PSC Russia)** and I worked as appointed leading inspector following the fabrication process, overviewing all main-parts sub-suppliers, monitoring the refractory installation and internals mounting. KBR, at the end of the project, sent me their comments on my performance.

Ferdinando,

I would like to take extend a thank you for the hard work and dedication you have provided with this project, I will for sure use you again in future work when available.

Thanks, George Griffin KBR

I'm joining my congratulations to successful job completion in addition to George statement below,

Thank you again for all your help,

And hope we could work in future again!

Regards **Alon Raichman KBR**

In October/December '14 I worked on the **JGC-RASGAS** big boiler construction as appointed welding inspector and I surveyed the whole process of manufacturing.

In July '14 I obtained the **ARAMCO qualification** for Pressure Vessel and Exchangers.

In March/April '14 I **held a course on NDE checks** for specialised engineers at the ENAIP professional Institute.

In February '14 I **attended a course held by Ph. D. M. Boniardi** (professor at the University of Milan Politecnico) about Corrosion on stainless steel materials.

I have the Welding Specialist and **International Welding Technologist** qualifications, obtained from the Istituto Italiano della Saldatura (Italian Welding Institute). I also obtained **Level II for NDT checks (VT, MT, PT, UT, RT)** and **Level II for UT-TOFD**. I obtained the qualification of **Coating Inspector Level A** from the Istituto italiano Anticorrosione (INAC) (Italian Anti-Corrosion Institute) and **ARAMCO** qualify for Pressure Vessels and Exchangers.

I planned for current year -2017- **a training course on UT-Phased Array Technique** to improve professional skills:

The experience gained during both the KBR project (2013/2014) and the JGC (2010) project with new generation Reactors/Separators enabled me to build a significant knowledge **of refractory lining**, internal shroud and internal appurtenance in SS materials fabrication.

Between 2011-2012, I had a special training that lasted about 6 months, with **Mr. Yoshimizu Y. (Refractory Specialist -API 936- JGC Japan)** regarding refractory application. This training was carried out on a building yard during the fabrication of 4 Reactors and 2 Separators (Project: Puerto La Cruz -PDVSA-Venezuela). The **training included**: qualification of process, material and personnel, monitoring of the application of refractory lining, checking of the refractory after curing and dry-out and witnessing at test on refractory samples at Thermal Ceramics Laboratory.

Regarding the KBR project (2014) I worked together with **Mr. David Smith** Refractory Specialist of Quartis Limited. My activity involved the surveillance of refractory application by casting and NDE checks.

In my **free time** I work in the **artistic workshop** of my wife, where she creates objects in ceramic and I make small objects in steel. Finally **I like running in the mountains** (with my beautiful dog Axel) and participating in several competitions of Sky-race in Italy and abroad.

More details on Projects and several pictures are available on my website www.ferdinandomoretti.com

As Welding Inspector I co-operate with:

- Udine Courthouse as Welding Technical Consultant (since 2006)
- Professional Institute IRES (Udine) as Part Time Teacher (since 2015)

Some of the main projects I followed as Welding Inspector in recent years were:

1. **Project: Jazan -Saudi Arabian-** No.10 Gasification Reactor (SA387 Gr.22 C.2; 95mm Thk).
I worked on behalf of **Saipem**.
2. **Project: No.1 Ammonia Converter** (20MnMoNi4-5; 81mm Thk). I worked on behalf of **SABIC Saudi**

Arabian.

3. **Project:** No.1 Ammonia Converter (SA 336 F11 Cl3; 154mm Thk). I worked on behalf of **CFI -US-**.
4. **Project:** No.1 BFW Preheater (SA 516 Gr.70/SA336 F11 Cl3; 80mm Thk). I worked on behalf of **CFI -US-**.
5. **Project:** Pascagoula Chevron Refinery -US- No.1 Reactor (SA 336 F22 V + wo tp 347; (176mm Thk).
I worked on behalf of **Hargrove Engineers/Chevron.**
6. **Project:** CHS Laurel Montana -US- No.4 Reactors-Hydrotreaters. (SA 336 F22 V + wo tp 347; (121mm Thk). I worked on behalf of **CHS -U.S.-**
7. **Project:** TAIF HRCC-VCC Republic of Tatarstan - No. 2 PPH Hot High Pressure Separator. (SA 336 F22 V + wo tp 347; (263mm Thk) + 100mm Refractory + Shroud SS. I worked on behalf of **KBR -U.S.-**
8. **Project:** USGC Ethylene Project JGC/RASGAS- No. 1 HP Boiler
9. **Project:** RPLC DEEP CONVERSION PJ PHASE Puerto La Cruz (PDVSA-Venezuela)- No. 4 Hydroconversion Reactors and No. 2 HPHT Separator. I worked on behalf of **JGC -Japan-**.
10. **Project:** Kuwait New Refinery; No. 4 Reactors and 6 Separators (SA 336 F22 V + wo tp 347; (290mm Thk). I worked on behalf of **Fluor U.S.**
11. **Project:** Conoco/Phillips, Rodeo California; No. 3 Hydrocracker Reactors (Material: SA 542M Tp D Cl 4a + wo tp 347; (210mm Thk). I worked on behalf of **Fluor U.S.**
12. **Project:** TOTAL, Port Arthur Refinery, Texas; No. 1 HDS Reactor (Material: SA 542M Tp D Cl 4a + wo tp 347; (145mm Thk). I worked on behalf of **Fluor U.S.**
13. **Project:** ExxonMobil SPT, Jurong Island Singapore; No. 2 Auxiliary Boilers + Economizers. I worked on behalf of **Shaw Stone & Webster.**
14. **Project:** Khazzan/Makarem EWT, Oman; several types of valves: Ball, Globe, Gate, Piston, Wafer, Monoflange (Total items 1557). I worked on behalf of **BP/ Worley Parsons.**

Since 2006

Freelance Welding Inspector

The list of the main Projects for which I worked as lead Inspector is reported here above while the list of all Projects for which I worked as welding/NDT Inspector is reported here below.

1996 – 2005

Mangiarotti S.p.A Sedegliano -UDINE-

A major Italian manufacturer of large-size/heavy-wall pressure vessel equipment including reactors, columns, drums and heat transfer equipment for the Chemical, Petrochemical and Oil & Gas Industries.

Shop QC inspector. QC Job Coordinator. Deputy QA Manager. Material suppliers and subcontractors Quality System evaluation.

See below project list for details.

1995 – 2002

Daily newspapers “Il Gazzettino” and “Il Messaggero Veneto”

Part-Time Freelance Journalist. Articles and reportages concerning the regional industrial reality and development. General technical subjects.

1990 – 1996

IT I “A. Malignani” Secondary School and Professional School “Bearzi” -Udine-

Electronics Laboratory Assistant Teacher

1985 – 1996 **Danieli Gestione Impianti -UDINE-**
Industrial plants electrician (as student-worker)

1982 – 1985 **Missana Car Electrical Workshop -UDINE-**
Electrician (as student-worker)

INSPECTION EXPERIENCE

Following is the list of Projects for which I worked as a Job Coordinator on behalf of Mangiarotti S.p.A.

PRESSURE VESSEL, COLUMNS, REACTORS, DRUMS								
Customer	Qty	Weight (tons)	Plate material	Plate thk	Tube material	Forgings material	Code	bar
F.W.I.C. (THAILAND)	1	51	A387-11-2 + 304L CLAD A387-11-2, A516-60N + B424-UNSN08825 CLAD	19/35 +3	N.A.	A105N, A105N + INCOLOY 825 WD, A182-F11-2- + E308L WD	ASME VIII DIV.1	38
IPM/CHIYODA	1	31	SA387-11-2 + 410S	48 +3	N.A.	SA182-F11-3 + 309L	ASME VIII DIV.1	45
STATOIL	1	228	BS150-224-490-LT50	38/48	N.A.	BS1503-224-490-LT50	BS5500	38
TECHNIPETROL	1	140	SA387-11-2 + 410S, SA387-11-2, SA516-70	25/36	N.A.	SA182-F11 + 410S, SA182-F11 SA105, SA187-F5	ASME VIII DIV.1	5
PARSONS (USA)	1	55	SA537 CL1 N	23/34	N.A.	SA350-LF2	ASME VIII DIV.1	24
TECHNIP (France)	1	100	SA508-3- CL.1	187	N.A.	SA508-3 CL.1	ASME VIII DIV.2	441
SAMSUNG (KOREA)	3	132	P355GH EN100282 + CLAD X2 CrNiMo 17.13.2 DIN 17440 (SS316L)	21 + 3.2	N.A.	C22.8 DIN 17243	AD MERKBLATTER	15
P. UPJOHN (IT)	2	1	HASTELLOY C-276	6	N.A.	/	ISPESL	/
ENICHEM (IT)	1	30	P460NH	63	N.A.	A350-LF2	ISPESL	138
METHANOL CASALE (CH)	1	280	SA336-F11-3	113	N.A.	SA336-F11-3	ASME VIII DIV.2 Russian Norms	120
M.W. KELLOGG (UK)	2	149	BS 1501-224-490-LT20 +	16/21 + 3	N.A.	A182-F316L, A350-LF2 +	PD5500	3.5

			CLAD 316L			WD 316		
M.W. KELLOGG (UK)	2	147	BS1501-224-490-LT50	21/32	N.A.	A350-LF2	PD5500	3.5
M.W. KELLOGG (UK)	2	252	BS1501-304 S31	24/52	N.A.	A182F304, A336-F304	PD5500	21
M.W. KELLOGG (UK)	2	83	BS1501-224-490-LT20	12/29	N.A.	A350-LF2	PD5500	8
F.W. (SPAIN)	1	30	SA387-11-2 + SSTP321 WD	60 + 3.5	N.A.	SA182-F11 CL.2 + SS TP347 WD SA182-F321	ASME VIII DIV.1	77

SHELL AND TUBE HEAT EXCHANGERS

Customer	Qty	Weight (tons)	Plate material	Plate thk	Tube material	Forgings material	Code	bar
Esso (Thailand)	1	37	A516 -70	53	A213-T5	A182 F5 + INCONEL	ASME VIII Div 1, TEMA R	50
								41,9
	2	97	A387-11-2 + 304L CLAD	30+3	A213-304L	A182-F5 + WD309L/308		38.7
	1	7	A387-11-2 +	13 + 3	A789-S32750	A182-F5		
TECNIPETROL (ITALY)	2	59	A266-2	69, 78	A210-A1	A266-2, A105	AS1210 TEMA R	219
								219
	1	51	A336-F11-3	65	A213-T11	A336-F11-3		219
	4	48	A516-60	10/23	A210-A1	A266-2, A105		
BP CHEMICAL	1	44	BS1501-224-490A-LT20	15	BS3606-320-CFS	BS1503-224-490-LT40	BS 5500 +	43
							TEMA R	43
	8	109	BS1501-224-490A-LT20	12/24	BS3606-LWCF316L-11-1	BS1503-224-490-LT20 + 316L WD		
TOYO	1	391	SA240-304L	54/62	SA249-TP304L	SA182-F304L	ASME VIII DIV.1 TEMA R	25.2
LINDE IMPIANTI	1	1.6	SA516-60	10	SA213 TP321	SA182-F321	ASME VIII DIV.1 TEMA R	18
								40
	5	38	SA203-D	12/31	SA334-3	SA350-LF3		24/75
	1	3.8	SA204-A	15	SA209-T1	SA182-F11		47
	1	23.9	SA240-321	20	SA213/249-TP304	SA182-F321		40
								92
	8	413	SA302-B	51	SA213-T1	SA182-F11-2		36
	1	0.3	SA321-304L	9	SA213-TP304	SA182-F304L		24
								40
	1	13	SA516-70	20	SA179	SA266-2		8
	2	287	SA516-70	39	SA179	SA266-2		40/46
	2	6.6	SA516-70	12/14	SA213/249	SA266-2		
	2	53	SA537-1	18/25	SA334-1	SA350-LF2		
M.W.KELLOGG	1	33	A516-60	26	A213-TP304	A182-F304L	BS5500	23
	1	5	BS1501-224-490B-LT30	18	BS3606-CFS-320	BS1503-304-S31		66

							TEMA R	
LURGI	2	21	SA336-F22-3 + SS347 WD	36/54	SA249-TP321	SA336-F321	ASME VIII DIV.1 TEMA R	183
	1	8.2	SA516-70 + SA387-22-2 + SS347 WD	21/39	SB163 UNSNO8825	SA336-F22-3 + SS347 WD		159
F.W. IBERIA	4	64.8	SA387-11-2 + SS410S	30 +3	SA213-321	SA182-F321	ASME VIII DIV.1 TEMA R	90
	1	5.4	SA516-70N	24	SA213-321	SA182-F11-2 + SS347 WD		91
PFD	2	15	SA516-70	20	SA179	SA266-2	ASME VIII DIV.1 TEMA R	20
	2	32	A516-70 + 316 CLAD	16+3	A213-TP316L	A266-2N + WD 316L		33
								25
								25.2
	2	22	A516-70 + 316 CLAD	14+3	A213-TP316L	A266-2N + WD 316L		33
	1	15	SA240-304L	14/18	SA249- TP304L	SA182- F304L		12
2	22	SA516-70	18	SA179	SA266-2			
2	10	SA516-60	10	SA213 TP321	SA182-F321			
M.W. Kellogg (UK)	1	12	A240-304L	11	A213-TP316L	A182-F304L	ASME VIII DIV.1 TEMA R	10
	1	21	A240-304L	34	A334 GR1	A182 F304L		23
	1	45	A516-60	26	A213 TP304L	A765 II 304L		20
	3	55	A516-60	15	A249 TP304L	A765 II 304L		60
	3	206	A516-60	16-47	A334 GR1	A765 II		20
	1	41	A240 304	13	A213 304	A182 F304		60
	1	118.5	A240-304	19	A334 GR1	A182 F304		60
SNAMPROGETTI	3	48	A516-70	30	A213-TP304L	A266-2N + 304L	TEMA R VSR	67
	2	44	A516-70	23	A213 TP316L	A266-2N + 316		43
	2	42	A516-70	20+3	A213 TP316	A266-2N		70
	1	12	A516-70 + 316L	23 +3	A213 TP316	A266-2N 316L		
CHIYODA	3	145	SA387 11 2	49-54	SA213 T11	SA 182 F11	ASME VIII DIV.1 TEMA R	90
	2	202	SA387 11 2	58	SA213 TP304L	SA182 F11 2 304L		90
	2	50	SA516 70N	13	SA179	SA266-2		10

INSPECTION EXPERIENCE

Following is the list of Projects for which I worked as a Freelance Welding Inspector since 2006.

VALVES						
Customer	Qty	Dimen sions	Material	Type	Code	
JGC	72	4'+34'	CF8M;WC6;WC4	Gate valves Swing check valves Globe valves	API 598 API 600	
TECHNIP	30	6'+20'	WCB			
IPM	55	4'+16'	CT8C,WCB,CF3M			

ENEL	180	4'÷24'	CF8M;WC6;WC4		
ENEL	160	4'÷32'	CF8M;WC6;WC4		
TECHNIP	6	36'	A350 LF2	Trunnion Ball valves	
BP/ Worley Parsons	1557	1/2'÷20'	C.S/S.S./SDSS/Alloy Steel (Cr)	Ball, Globe, Gate, Piston, Wafer, Monoflange	API 598; API 600/1/2/7/8 ; API6A
Hyundai/RasGas	30	15'	Code AISI 4130 60K	Choke Valves	API6A
Technip/NPCC	190	2'÷6'	CF8M;WCB;B146	Globe, Gate, check	API 598; API 600/1/2/7/8
PAC/JKC	110	2'÷24	WCB, LCC	Globe, Check	API 598; API 600/1/2/7/8
HYUNDAI RasGas Barzan offshore project	30	24	AISI 4130 60K	Choke Valve	API 6A

STRUCTURAL STEELWORK

Customer	Qty/ton	Dimensions	Material	Type	Code	///
S.P.S./SHALL Pearl GTL project	520	400÷2000 (Ø mm)	CARBON STEEL	TUBULAR PIPES	AWS D1.1/M 2002	///
AkerKvaerner Houston	480	400÷2200 (Ø mm)	CARBON STEEL	TUBULAR PIPES	AWS D1.1/M 2002	///
Snamprogetti QAPCO (QATAR)	1330	Various	CARBON STEEL	GALVANIZED STEEL STRUCTURES AND PIPE RACK	EN	///
C.B.&I. GRAIN LNG PHASE III 154260	800	Ø 609 x 30 Thk mm	API 5L-X70	STRUCTURES STEEL AND PIPE RACK	API code 5L -X70 last ed. ASME B36.10M and ASME B16.25.	///
FLUOR U.S.	250	Ø 14'÷30'	EFW PIPE A358-304/304L CL1	PROCESS PIPES	EFW PIPE A358-304/304L CL1	///
BECHTEL U.S. (Project: New Doha international Airport, Qatar)	23000	Various	CARBON STEEL	PORTAL DOOR FRAME ; COLUMNS ; HORIZONTAL BEAMS/TRUSSES ; BRACINGS ;	AWS D1.1	///
GE Oil & Gas	53	Various	CARBON STEEL	BASEPLATE FOR MOTOCOMPRESSOR	GE Specifications	///

CASTING and FORGING

Customer	Qty/ton	Dimensions	Material	Type	Code	///
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AkerKvaerner Sabic Y.Yambu Project	1	2200X 2000 (mm)	CARBON STEEL	DISCHARGE SCROLL	/	/
Ansaldo Energia	1	1800X 2800 (mm)	CARBON STEEL	HP-INNER CASING	/	/
Ansaldo Energia	1	1400 X 2000 (mm)	CARBON STEEL	STEAM TURBINE	/	/
GE Oil & Gas	13	1400 x 2000x 50 mm	SA 352 LF2	HP-INNER CASING	/	/
Daewoo	4	40 #900	A 352 LCC	GATE VALVE	/	/
GE Oil & Gas	4	800x1500x10 0Thk	SA 352 LF2	CASING	/	/
AllSeas Engineering B.V	138	VARIOUS DIMENSIONS	NORSOK M123 GR. 460	FORGED X-HOUSING AND Y- RACK SUSPENSION PLATES	NORSOK M123 GR. 460	/

PRESSURE VESSEL, COLUMNS, REACTORS, DRUMS AND H. EXCHANGER

Customer	Qty	Weight (tons)	Shell Material	Shell thk	Tube material	Forgings Material	Code	bar
CFI BFW Preheaters	3	115	SA 516 Gr.70	80	SA213 T1	SA 336 F11 Cl3	ASME VIII Div.1 TEMA R	154/203
CFI Ammonia Converter	1	425	SA 336 F11 Cl3	154	N.A.	SA 336 F11 Cl3	ASME VIII DIV.2	250
SABIC Ammonia Converter	1	220	20MnMoNi4-5	81	N.A.	20MnMoNi4-5	AD 2000 MerkBlatter	185
SAIPEM Gasification Reactor	10	215	SA 387 Gr.22 Cl 2	95/120	N.A.	SA 336 F22 Cl3	ASME VIII DIV.2	145
Hargrove Chevron Pascagoula Chevron Refinery	1	800	SA 336 F 22 V+ w.o. tp 347 (8mm)	176	N.A.	SA336M F22 V w.o. tp 347	ASME VIII DIV.2	162
CHS Laurel Montana Reactors Hydro treaters	4	500	SA 336 F 22 V+ w.o. tp 347	121	N.A.	SA336M F22 V w.o. tp 347	ASME VIII DIV.2	121
KBR LPH Hot High Pressure Separator (HRCC TAIF)	2	1100	SA 336 F 22 V+ w.o. tp 347 (Refractory+ Shroud SS)	263	N.A.	SA336M F22 V w.o. tp 347	ASME VIII DIV.2	325
JGC RPLC DEEP CONVERSION (PDVSA- Venezuela) -Hydroconversion Reactors-	4	//	SA 336 F 22 V+ w.o. tp 347 (Refractory + Shroud SS)	//	N. A.	SA336M F22 V w.o. tp 347	ASME VIII DIV.2	//
JGC RPLC DEEP CONVERSION (PDVSA- Venezuela)	2	//	SA 336 F 22 V+ w.o. tp 347 (Refractory + Shroud SS)	//	N. A.	SA336M F22 V w.o. tp 347	ASME VIII DIV.2	//

-HPHT Separator -								
JGC (Olefins plants project) -H. Exchanger-	9	37	SA516GR70 SA204GR A	57	SA209T1	SA105 SA336F1	ASME VIII DIV.1	123
JGC (Olefins plants project) -P. Vessel-	10	27	SA516M GR.485	40	N.A.	SA105 SA266GR.2	ASME VIII DIV.1	122
	1	60	SA516GR70	15+18	N.A.	SA105 SA266GR.2		4
	1	1,1	SA516GR70	15	N.A.	SA105		15
JACOBS (Pergen Project) HP and MP Steam Headers	2	3,7	SA182F22CL1	48	N.A.	SA182F22CL1	ASME VIII DIV.1	256
	4	1,4	SA240316L	10	N.A.	A336-F316		30
	2	1,1	SA516GR70	13	N.A.	SA105		45
HYUNDAI (KNPC NEW ETHANE RECOVERY PLANT PROJECT) -Vessels	2	4,2	SA240 GR.316	7	N.A.	SA182F316	ASME VIII DIV.1	13
	3	0,5	SA240 GR.316	6	N.A.	SA182F316		1
FLUOR U.S. (Conoco/Phillips Rodeo California) -Hydrocracker Reactor-	1	568	SA 542M Tp D Cl 4a + w.o. tp 347	210	N.A.	SA336M F22 V w.o. tp 347	ASME VIII DIV.2	169
	1	419	SA 542M Tp D Cl 4a + w.o. tp 347	210	N.A.	SA336M F22 V w.o. tp 347	ASME VIII DIV.2	169
	1	488	SA 542M Tp D Cl 4a + w.o. tp 347	210	N.A.	SA336M F22 V w.o. tp 347	ASME VIII DIV.2	169
FLUOR U.S. (Kuwait New Refinery) -Upflow Reactor-	4	784	SA 336 F 22 V+ w.o. tp 347	290	N.A.	SA336M F22 V w.o. tp 347	ASME VIII DIV.2	193
FLUOR U.S. (Kuwait New Refinery) -Hot high pressure Separator-	6	277	SA 336 F 22 V+ w.o. tp 347	229	N.A.	SA336M F22 V w.o. tp 347	ASME VIII DIV.2	169
FLUOR U.K. (GBARAN UBIE) -Dehydration inlet separator-	2	38	EN 10028-3 P355 NL1+ w.o. tp 316L	78	N.A.	EN 10222-4 P355 QH + w.o. tp 316L	PD 5500 and DEP 31.22.10.32	105
FLUOR U.K. (GBARAN UBIE) -Glycol scrubber -	2	1,6	EN 10028-3 P355 NL1+ w.o. tp 316L	49	N.A.	EN 10222-4 P355 QH + w.o. tp 316L	PD 5500 and DEP 31.22.10.32	105
FLUOR U.K. (GBARAN UBIE) -Glycol contactor -	2	120	EN 10028-3 P355 NL1+ w.o. tp 316L	100	N.A.	SA 182 F 316L	PD 5500 and DEP 31.22.10.32	137
FLUOR U.S. (TOTAL Petrochemicals) -HDS Reactor-	1	770	SA 542M Tp D Cl 4a + w.o. tp 347	145	N.A.	SA336M F22 V w.o. tp 347	ASME VIII DIV.2	96

Shaw Stone & Webster (Project: ExxonMobil SPT, Jurong Island Singapore) -BFW Pre-heaters-	2	6400	A516-70	40	A210-A1	A266-2, A105	TEMA R	147
GE Oil & Gas Zubair GAS Project, Phase II -Separators-	2	4,8	A 516 Gr. 70N	12	N.A.	A 105	ASME VIII DIV.1	137
	30	4,8	A 516 Gr. 70N	12-25	N.A.	A 350 LF2	ASME VIII DIV.1	36
	12	2,6-19	A 516 Gr. 70N	10-28	N.A.	A 350 LF2	ASME VIII DIV.1	15
	2	19,4	A 516 Gr. 70N	15	N.A.	A 350 LF2	ASME VIII DIV.1	13
	4	4,3	A 240 Tp 304	25	N.A.	A 182 F304L	ASME VIII DIV.1	60
	2	28,6	A 516 Gr 70 + A 240 Tp 304	41+3	N.A.	A 350 LF2 A 182 F304L	ASME VIII DIV.1	60
	4	6	A 516 Gr 70 + A 240 Tp 304	23+3	N.A.	A 350 LF2 A 182 F304L	ASME VIII DIV.1	60

BOILER

Customer	Qty	Materials	Type	Code	bar
FLUOR U.K. (Saudi Kayan) - Boilers-	2	SA516GR70 SA106B;SA210 A1 SA335P11;SA335P22	Boiler Type MRD	ASME I	120
Stone & Webster Int. (Singapore Parallel Train) ExxonMobil	2	SA516GR70 SA106B;SA210 A1 SA335P11;SA335P22	Boiler Type MRD	ASME I	118
FLUOR U.K. (Yambu S. Arabia) -VHP Boiler-	5	SA516GR70 SA106B;SA210 A1 SA335P11;SA335P22	Boiler type D	ASME I	120
JGC/RASGAS (USGC Ethylene Project)	1	SA516GR70 SA106B;SA210 A1 SA335P11	Boiler type M	ASME I	80

EXPERIENCE LIST DETAILS

Welding Standards:

*Knowledge of the following Technical Regulation and Standards about **Welding Process and Welding Operators Qualification**:*

- UNI EN 287 “welder qualification”
- UNI EN 729 “quality assurance for welding process”
- UNI EN 15614 “welding process qualification”
- ASME IX “welding and brazing qualifications”

Technical Regulation, Specification & Standards

Knowledge of the following Technical Regulation, Specification & Standards of sections: materials, non-destructive examination, rules for inspection of pressure vessel, welder and welding qualification:

- CODE: ASME I,II,V,VIII /I-II,IX
- CODE: AD-Merkblätter
- CODE : ASME B31.1 ;B31.3
- CODE: AWS D1.1/M 2002
- CODE : British Standards PD 5500 :2003
- CODE: API 598-600; API 600/1/2/7/8 ; API6A
- CODE : UNI-EN (material section)
- CODE: API 934 + App. A

-
- Graphical symbols for welding according to AWS
 - Specification Norsok code
 - Technical Regulation: ISPESL
 - Technical Regulation: PED 97/23/CE

Non-Destructive-Tests

Knowledge of the following Non-Destructive-Tests applied on steel material, weld joints, coating and refractory material:

- M.T.: Magnetic Particle Test
- P.T.: Liquid Penetrant Test
- R.T.: Radiographic Test
- U.T.: Ultrasonic Test
- Ferrite check
- NDT on Coating and Refractory lining
- Holiday test
- Visual, Dimensional and Thickness check
- Pressure test: Air, water, helium
- Positive Material Identification
- UT-TOFD (Time of Flight Diffraction Technique)
- UT-Phased Array

Destructive Mechanical Testing

Knowledge of the following Destructive Mechanical Tests:

- Tensile Testing
- Bend test
- Micrography and Macrography
- Destructive tests on coating and Refractory lining
- Hardness test
- Charpy V Impact Test
- Corrosion test
- Step cooling test

Welding Techniques

Knowledge of the following welding processes:

- S.A.W.: Submerged-Arc Welding
- S.M.A.W.: Shielded Metal-Arc Welding
- G.M.A.W.: Gas Metal-Arc Welding
- F.C.A.V.: Flux Cored-Arc Welding
- G.T.A.W. (automatic): Gas Tungsten-Arc Welding
- G.T.A.W. (manual): Gas Tungsten-Arc Welding
- E.S.W.: Electroslag welding
- Brazing/Soldering

Materials

Knowledge of the mechanical, chemical and metallurgical properties and issues related to the welding of the following materials:

- Carbon steel
- Low-Alloy Cr, Mo, V
- Nickel and Nickel Alloy
- Stainless steel
- Duplex steel
- Cladding
- Low-Alloy Nickel steel
- Steel cladding
- Structural steel

March 2017



CHS Cenex Refinery Montana -US- Supply: 4 Hydrocracker Reactors

From: Gaskin, Kevin

A: Ferdinando Moretti

Sent: Monday, March 14, 2016 3:19 PM

RE: 60IR FM ATB F. Moretti -Project FW/CHS Laurel

Thanks Ferdi.

You are on the top of my list to call if I need help.

It has been a rare pleasure and an honor to get to know you.

...I know we will work together in the future...

If work prospects get bad and you need some help let me know.

A lot of work has slowed down due to crude prices but it will rebound.

Kevin Gaskin

Quality Manager

CHS Inc. (Cenex Refinery)

803 Hwy 212 South

Laurel, MT 59044

Cell 406.855.0124

Office 406.628.5339

kevin.gaskin@chsinc.com

From: Gaskin, Kevin

A: Ferdinando Moretti Andrea Dell'Anna

Sent: Monday, March 14, 2016 3:19 PM

FW: ATB - Project CHS/FW Laurel Montana - Exp. Rpt AD/53

...sharing info from the project engineer...

Kevin,

I have my other 'loading inspector' so I can work with him... no problem.

Tell both of them thanks for all the fine service and excellent reports they have provided throughout the project. I

look forward to having contracting their services again in the future.

Thanks,

Bruce Shaw

CHS refinery

406-697-8000

Ferdinando Moretti
Welding Inspector

International Welding Technologist -IWT No. 080048A-
Level II NDT UNI EN 473/PED 97-23-CE
Coating Inspector Level A -INAC No. 239-

Da: Alon Raichman <Alon.Raichman@kbr.com>

Oggetto: RE: Separators E-102, E-103 ATB -Project TAIF- F. Moretti

Data: 02 settembre 2014 22:12:40 GMT+02:00

A: Ferdinando Moretti <ferdinando.moretti@alice.it>

Cc: Alessandra Ferrara <Alessandra.Ferrara@ndeitaly.com>, George Griffin <George.Griffin@kbr.com>, Art Gentry <Art.Gentry@kbr.com>, Akhilesh Pratap <Akhilesh.Pratap@kbr.com>, Monica Ruiz <Monica.Ruiz@kbr.com>, Michael Graham - KBR Michael.Graham@kbr.com

Ferdinando,

I'm joining my congratulations to successful job completion in addition to George statement below,

Thank you again for all your help,

And hope we could work in future again!

Regards



Alon Raichman

TAIF-NK Project Coordinator alon.raichman@kbr.com

KNOW-HOW DELIVERED

601 Jefferson St, Houston, Texas, 77002 | Office: +17137537972 | Cell: +18328766249

From: George Griffin **Sent:** Tuesday, September 02, 2014 7:17 AM

To: Ferdinando **Cc:** Alessandra Ferrara; Alon Raichman

Subject: RE: Separators E-102, E-103 ATB -Project TAIF- F. Moretti

Ferdinando,

I would like to take extend a thank you for the hard work and dedication you have provide with this project, I will for sure use you again in future work when available.

Thanks,

George Griffin

Senior Quality Professional
KBR Energy and Chemicals
601 Jefferson Avenue
Houston, Texas 77002
Office Phone 713-753-6991
Office Fax 713-753-6767
Cell Phone 281-381-6185
Office Email george.griffin@kbr.com
Cell Email 2813816185@messaging.sprintpcs.com
SKYPE [georgemaxfli](https://www.skype.com/people/georgemaxfli)

Ferdinando Moretti
Welding Inspector

International Welding Technologist -IWT No. 080048A-
Level II NDT UNI EN 473/PED 97-23-CE
Coating Inspector Level A -INAC No. 239-
SAUDI ARAMCO Inspector

Hargrove Engineers/Chevron Houston -US- Supply: Reactor CLG Isocracking (Pascagoula Chevron Refinery)

From: Greg Magner **Sent:** Tuesday, October 20, 2015 11:08 AM **To:** Ferdinando;

Ferdi,

-We appreciate the excellent reporting you have done for us.

-I am impressed with your reports - keep up your good work, we appreciate your contribution.

Thank-you and Regards,

Greg Magner | Quality Assurance Leader -**Hargrove Engineers/Chevron-**
Hargrove Engineers + Constructors

Saipem Italy

Supply: Gasification Reactors (Jazan Project)

Da: La Malfa Paolo (External) **Inviato:** lunedì 9 gennaio 2017 13:54 **A:** Ferdinando **Cc:** Villa Massimiliano; Gargano Nicolò **Oggetto:** R: Uscita progetto Jazan F. Moretti

Ferdinando

Ti ringrazio per la mail e per la fattiva collaborazione sul progetto, ancora un ultimo sforzo per il mese di gennaio e poi ti lasciamo andare ;-)

Best Regards

Paolo La Malfa (PQCM)

JIGCC Jazan Project PK1

Tel: 0039 02 442 49547

Gargano Nicolò

A: Ferdinando Moretti Cc: Villa Massimiliano La Malfa Paolo (External)

R: Uscita progetto Jazan F. Moretti

Ciao Ferdinando,

aprofitto dell'email di Paolo per ringraziarti per la professionalità e la collaborazione dimostrata sul progetto.

In bocca al lupo per il nuovo lavoro e buon anno anche a te.

Ciao

Nicolò