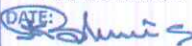
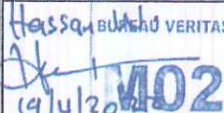
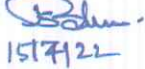
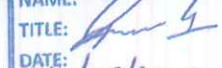


		ENGINEERING, PROCUREMENT & CONSTRUCTION OF PRODUCED WATER TREATMENT & WATER INJECTION FACILITIES EXPANSION PHASE 1, WEST QURNA-2 (PHASE 2)			
WELDER QUALIFICATION CERTIFICATE (ASME SEC IX)					
Name:	WAEI HELAYEL SHERIF			Test Date:	25-Oct-2021
Badge No:	A23549009			Applicable WPS(s):	***
Stamp No:	W034			Reference Standard:	ASME BPV CODE SEC.IX & 8015-0151-SC03-00-000-QC-PP-00005
Company:	SICIM			WQT No:	IQ075-WQT-028
***		IQ077-WPS-BW-002-21, IQ077-WPS-FW-002-21, IQ077-WPS-GW-002-21, IQ077-WPS-BW-001-21			
Remarks	Please refer to the attached certificate from IQ075				
Test Details					
Ref. WPS:	IQ075-WPS-BW-006-21	Mode Of Test:	MANUAL	Material 1:	ASTM A106 GR.B
Thickness:	18.26 mm	Coupon Form:	SINGLE SIDE FIXED V GROOVE	Material 2:	ASTM A106 GR.B
Test Variables and Qualification Limits					
Test Variables	Qualified With		Qualified For		
Welding Process :	GTAW+SMAW		GTAW+SMAW		
Backing Process 1 :	WITHOUT BACKING		WITH & WITHOUT BACKING		
Backing Process 2 :	WITH BACKING		WITH BACKING		
Outside Diameter (inch) :	6		FROM 73 TO UNLIMITED/ UNLIMITED FOR FILLET WELDS		
Thickness (mm.) :	18.26		UNLIMITED		
Base Metal P.Number :	P No.1 Gr.NO.1 (ASTM A106 Gr.B)		P-No.1 THROUGH P-No.15F, P-No.34 AND P-No.41 THROUGH P-No.49		
Filler Metal F.Number Process 1 :	F6 (AWS A5.18 ER70S-3)		ALL		
Filler Metal F.Number Process 2 :	F4 AWS A5.1 E7018-1 H4R)		F1, F2, F3, F4 (WITH BACKING)		
Filler Metal Form Process 1 :	BARE SOLID		BARE SOLID		
Filler Metal Form Process 2 :	COVERED ELECTRODE		COVERED ELECTRODE		
Consumable Insert :	NONE		NONE		
Deposited Weld Metal Thck. (mm-Process 1) :	4 mm		8 mm		
Deposited Weld Metal Thck. (mm-Process 2) :	14.26 mm		UNLIMITED		
Deposited Weld Metal Thck. (Sh. Cir. Arc) :	NONE		NONE		
Position :	6G		ALL		
Vertical Progression :	UPHILL		UPHILL		
Inert Gas Backing :	WITHOUT BACKING		WITH & WITHOUT BACKING		
Current and Polarity :	GTAW DIRECT STRAIGHT (DCEN) SMAW DIRECT REVERSE (DCEP)		GTAW DIRECT STRAIGHT (DCEN) SMAW DIRECT REVERSE (DCEP)		
Transfer Mode :	NONE		NONE		
Nondestructive Testing Results					
VT Date	26-Oct-2021	VT Report No	IQ75-WQT-VT-0015	RT Date	26-Oct-2021
RT Interpreter	BALAMURUGAN.B		RT Testing Body	K.KETCO	
Mechanical Testing Results					
Macro Test	NA	Tensile Test	NA	Bend Test	NA
Impact Test	NA				
Interpreted by	NA		Testing Body		
We certify that the statements in this record are correct and that the test coupons were prepared, welded, and tested in accordance with the requirements of ASME BPVC Section IX					
Name:	KRISANU BHUNIA		Hassanul BURHANU VERITAS		WITNESSED ☐
Signature:					REVIEWED ☒
Date:	15/11/22		19/11/2021		402
ACCEPTED ☐ REJECTED ☐					

		ENGINEERING, PROCUREMENT & CONSTRUCTION OF PRODUCED WATER TREATMENT & WATER INJECTION FACILITIES EXPANSION PHASE 1, WEST QURNA-2 (PHASE 2)			
WELDER QUALIFICATION CERTIFICATE (ASME SEC IX)					
Name:	WAEEL HELAYEL			Test Date:	16-Feb-2023
Badge No:				Applicable WPS(s):	***
Stamp No:	W034			Reference Standard:	ASME BPV CODE SEC.IX & 8015-0151-SC03-00-000-QC-PP-00005
Company:	SICIM			WQT No:	SC03-WQT-PI-0051
***		IQ077-WPS-BW-001-21, IQ077-WPS-FW-001-21, IQ077-WPS-GW-001-21			
Remarks					
Test Details					
Ref. WPS:	IQ075-WPS-BW-001-21	Mode Of Test:	MANUAL	Material 1:	ASTM A106 GR.B
Thickness:	3.73 mm	Coupon Form:	SINGLE SIDE FIXED V GROOVE	Material 2:	ASTM A106 GR.B
Test Variables and Qualification Limits					
Test Variables		Qualified With		Qualified For	
Welding Process :		GTAW		GTAW	
Backing Process 1 :		WITHOUT BACKING		WITH & WITHOUT BACKING	
Backing Process 2 :		WITH BACKING		WITH BACKING	
Outside Diameter (mm) :		21.3		FROM 25 TO UNLIMITED/ UNLIMITED FOR FILLET WELDS	
Thickness (mm.) :		3.73		WALL THICKNESS $\leq$ 11.08/ UNLIMITED FOR FILLET WELDS	
Base Metal P.Number :		P No.1 Gr.NO.1 (ASTM A106 Gr.B)		P-No.1 THROUGH P-No.15F, P-No.34 AND P-No.41 THROUGH P-No.49	
Filler Metal F.Number Process 1 :		F6 (AWS A5.18 ER70S-3)		ALL F6	
Filler Metal Form Process 1 :		BARE SOLID		BARE SOLID	
Consumable Insert :		NONE		NONE	
Deposited Weld Metal Thck. (mm-Process 1) :		3.73 mm		7.46 mm	
Deposited Weld Metal Thck. (Sh. Cir. Arc) :		NONE		NONE	
Position :		6G		ALL	
Vertical Progression :		UPHILL		UPHILL	
Inert Gas Backing :		WITHOUT BACKING		WITH & WITHOUT BACKING	
Current and Polarity :		GTAW DIRECT STRAIGHT (DCEN)		GTAW DIRECT STRAIGHT (DCEN)	
Transfer Mode :		NONE		NONE	
Nondestructive Testing Results					
VT Date	16-Feb-2023	VT Report No	SC03-WQT-PI-0051	RT Date	16-Feb-2023
				RT Report No	SC03-PI-WQT-RT-0052
RT Interpreter		BALAMURGAN		RT Testing Body	
				K.KETCO	
Mechanical Testing Results					
Macro Test	NA	Tensile Test	NA	Bend Test	NA
				Impact Test	NA
Interpreter		NA		Testing Body	
				NA	
We certify that the statements in this record are correct and that the test coupons were prepared, welded, and tested in accordance with the requirements of ASME BPVC Section IX					
Name:	NAME: WAEEL HELAYEL		BUREAU VERITAS		WITNESSED
Signature:	SIGNATURE: [Signature]		M17		REVIEWED
Date:	DATE: 19/02/23		71-2-2023		
		ACCEPTED ☐ REJECTED ☐			

		ENGINEERING, PROCUREMENT & CONSTRUCTION OF PRODUCED WATER TREATMENT & WATER INJECTION FACILITIES EXPANSION PHASE 1, WEST QURNA-2 (PHASE 2)			
WELDER QUALIFICATION CERTIFICATE (ASME SEC IX)					
Name:	WAEEL HELAYEL SHERIF			Test Date:	3-Nov-2021
Badge No:	A23549009			Applicable WPS(s):	***
Stamp No:	W034			Reference Standard:	ASME BPV CODE SEC.IX & 8015-0151-SC03-00-000-QC-PP-00005
Company:	SICIM			WQT No:	IQ075-WQT-042
***	IQ077-WPS-BW-001-21, IQ077-WPS-FW-001-21, IQ077-WPS-GW-001-21				
Remarks	Please refer to the attached certificate from IQ075				
Test Details					
Ref. WPS:	IQ075-WPS-BW-005-21	Mode Of Test:	MANUAL	Material 1:	ASTM A106 GR.B
Thickness:	5.54 mm	Coupon Form:	SINGLE SIDE FIXED V GROOVE	Material 2:	ASTM A106 GR.B
Test Variables and Qualification Limits					
Test Variables		Qualified With		Qualified For	
Welding Process :		GTAW		GTAW	
Backing Process 1 :		WITHOUT BACKING		WITH & WITHOUT BACKING	
Backing Process 2 :		WITH BACKING		WITH BACKING	
Outside Diameter (mm) :		60.3		FROM 25 TO UNLIMITED/ UNLIMITED FOR FILLET WELDS	
Thickness (mm.) :		5.54		WALL THICKNESS ≤ 11.08 / UNLIMITED FOR FILLET WELDS	
Base Metal P.Number :		P No.1 Gr.NO.1 (ASTM A106 Gr.B)		P-No.1 THROUGH P-No.15F, P-No.34 AND P-No.41 THROUGH P-No.49	
Filler Metal F.Number Process 1 :		F6 (AWS A5.18 ER70S-3)		ALL F6	
Filler Metal Form Process 1 :		BARE SOLID		BARE SOLID	
Consumable Insert :		NONE		NONE	
Deposited Weld Metal Thck. (mm-Process 1) :		5.54 mm		11.08 mm	
Deposited Weld Metal Thck. (Sh. Cir. Arc) :		NONE		NONE	
Position :		6G		ALL	
Vertical Progression :		UPHILL		UPHILL	
Inert Gas Backing :		WITHOUT BACKING		WITH & WITHOUT BACKING	
Current and Polarity :		GTAW DIRECT STRAIGHT (DCEN)		GTAW DIRECT STRAIGHT (DCEN)	
Transfer Mode :		NONE		NONE	
Nondestructive Testing Results					
VT Date	3-Nov-2021	VT Report No	IQ75-WQT-VT-0028	RT Date	4-Nov-2021
RT Interpreter	BALAMURUGAN.B		RT Testing Body	K.KETCO	
Mechanical Testing Results					
Macro Test	NA	Tensile Test	NA	Bend Test	NA
Impact Test	NA				
Interpreter			Testing Body	NA	
We certify that the statements in this certificate are true and correct and that the test coupon was prepared, welded, and tested in accordance with the requirements of ASME BPVC Section IX					
Name:	TITLEKRISANU BHUNIA		Hassan W. BUREAU VERITAS WITNESSED ☐		
Signature:					
Date:	15/7/22		19/4/2022		
ACCEPTED ☒ REJECTED ☐		MO2 REVIEWED ☒			

		ENGINEERING, PROCUREMENT & CONSTRUCTION OF PRODUCED WATER TREATMENT & WATER INJECTION FACILITIES EXPANSION PHASE 1, WEST QURNA-2 (PHASE 2)				
WELDER QUALIFICATION CERTIFICATE (ASME SEC IX)						
Name:	WAEEL HELAYEL			Test Date:	13-Sep-2022	
Badge No:				Applicable WPS(s):	***	
Stamp No:	W034			Reference Standart:	ASME BPV CODE SEC.IX	
Company:	SICIM			WQT No:	SC03-WQT-PI-0010	
***			IQ077-WPS-BW-005-21, IQ077-WPS-FW-005-21, IQ077-WPS-GW-005-21			
Remarks						
Test Details						
Ref. WPS:	IQ077-WPS-BW-005-21	Mode Of Test:	MANUAL	Material 1:	ASTM A790 UNS 31803	
Thickness:	18.26 mm	Coupon Form:	SINGLE SIDE FIXED V GROOVE	Material 2:	ASTM A790 UNS 31803	
Test Variables and Qualification Limits						
Test Variables		Qualified With		Qualified For		
Welding Process :		GTAW+SMAW		GTAW+SMAW		
Backing Process 1 :		WITHOUT BACKING		WITH & WITHOUT BACKING		
Backing Process 2 :		WITH BACKING		WITH BACKING		
Outside Diameter (Inch) :		6		FROM 73 TO UNLIMITED/ UNLIMITED FOR FILLET WELDS		
Thickness (mm.) :		18.26		UNLIMITED		
Base Metal P.Number :		P No.10H Gr.NO.1 (ASTM A790 UNS 31803)		P-No.1 THROUGH P-No.15F, P-No.34 AND P-No.41 THROUGH P-No.49		
Filler Metal F.Number Process 1 :		F6 (AWS A5.9 ER2209)		ALL		
Filler Metal F.Number Process 2 :		F5 AWS A5.4 E2209-15)		F1, F5 (WITH BACKING)		
Filler Metal Form Process 1 :		BARE SOLID		BARE SOLID		
Filler Metal Form Process 2 :		COVERED ELECTRODE		COVERED ELECTRODE		
Consumable Insert :		NONE		NONE		
Deposited Weld Metal Thck. (mm-Process 1) :		3.5 mm		7 mm		
Deposited Weld Metal Thck. (mm-Process 2) :		14.76 mm		UNLIMITED		
Deposited Weld Metal Thck. (Sh. Cir. Arc) :		NONE		NONE		
Position :		6G		ALL		
Vertical Progression :		UPHILL		UPHILL		
Inert Gas Backing :		WITHOUT BACKING		WITH & WITHOUT BACKING		
Current and Polarity :		GTAW DIRECT STRAIGHT (DCEN) SMAW DIRECT REVERSE (DCEP)		GTAW DIRECT STRAIGHT (DCEN) SMAW DIRECT REVERSE (DCEP)		
Transfer Mode :		NONE		NONE		
Nondestructive Testing Results						
VT Date	13-Sep-2022	VT Report No	SC03-WQT-PI-0010	RT Date	13-Sep-2022	
RT Interpreter	BALAMURUGAN.B		RT Testing Body	K.KETCO		
Mechanical Testing Results						
Macro Test	NA	Tensile Test	NA	Bend Test	NA	
Impact Test	NA					
Interpreter	NA			Testing Body	NA	
We certify that the statements in this WQC are correct and that the test coupons were prepared, welded, and tested in accordance with the requirements of ASME BPVC Section IX						
Name:	NAME: 					
Signature:	TITLE: 					
Date:	DATE: 14/09/2022					
NO.	SIGN: ☐ ACCEPTED ☐ REJECTED					
15						

PED NoBo 1155

Certificado n.º: PTC18.03657.5120
Certificate no

Revalidação pela Empresa/Supervisor (Approval's Prolongation by Employer/Supervisor)				Revalidação pelo Examinador ou Organismo de Inspeção (Approval's Prolongation by Examiner)	
Data Date					
Função/Título Title					
Assinatura Signature					

Revalidação pela Empresa/Supervisor (Approval's Prolongation by Employer/Supervisor)				Revalidação pelo Examinador ou Organismo de Inspeção (Approval's Prolongation by Examiner)	
Data Date					
Função/Título Title					
Assinatura Signature					

Revalidação pela Empresa/Supervisor (Approval's Prolongation by Employer/Supervisor)				Revalidação pelo Examinador ou Organismo de Inspeção (Approval's Prolongation by Examiner)	
Data Date					
Função/Título Title					
Assinatura Signature					

Revalidação pela Empresa/Supervisor (Approval's Prolongation by Employer/Supervisor)				Revalidação pelo Examinador ou Organismo de Inspeção (Approval's Prolongation by Examiner)	
Data Date					
Função/Título Title					
Assinatura Signature					

Revalidação pela Empresa/Supervisor (Approval's Prolongation by Employer/Supervisor)				Revalidação pelo Examinador ou Organismo de Inspeção (Approval's Prolongation by Examiner)	
Data Date					
Função/Título Title					
Assinatura Signature					

Revalidação pela Empresa/Supervisor (Approval's Prolongation by Employer/Supervisor)				Revalidação pelo Examinador ou Organismo de Inspeção (Approval's Prolongation by Examiner)	
Data Date					
Função/Título Title					
Assinatura Signature					

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SGS Portugal, S.A.

Pólo Tecnológico de Lisboa, Lote 6, Pisos 0, 1 e 2, 1800-546 Lisboa, t(+351)217 104 200, f(+351)707 200 329
Rua Padre António, 232, Piso 4 – Fração 4.4, 4470-136 Maia, t(+351)229 994 500, f(+351)707 200 329
Capital Social 500.000 Euros - Reg. Com. de Lisboa - Contribuinte nº 500 417 660 - Mail: pt.info@sgs.com - Web: www.sgs.pt - Linha SGS: 707 200 747

WELDER QUALIFICATION TEST CERTIFICATE

Cert. No. EGAC/02/20

Qualification codes & standards	ASME IX – ED.2019
--	--------------------------

Welder Name		Wael Helil sheriff	
Company Name		SIEMENS	
Place of Test		SIEMENS – El Burullus	
Project Name		Burullus Power Plant 4800 MW	
Welding Process		GTAW (MANUAL)	
Filler Metal		ER308H	
WPS / PQR No.		NC/SAG/001	
Base metal thickness		20 mm	
Joint design	Butt weld	Filler metal form	Solid
Backing gas	Argon 99.9% purity	Gauging	NA
		TEST	Range of qualification
Base metal P No.		8	P-No. 1 ~ P-No. 15F, P-No. 34, and P-No. 41 ~ P-No. 49
Filler metal F No.		6	All F No. 6
Backing material		Without backing	With & Without backing
Welding Position		3G UPHILL	Flat & Vertical For Plate and Pipe Over 73 mm O.D.
Current		DCEN	DCEN
Test Date	02/06/2020	Valid until	02/12/2020
TEST RESULTS EVALUATED TO ASME IX-ED2019			
TEST	Visual test: Acc.	Radiographic test: Acc.	
Report No.	EGAC-VT-20-06	EGAC-RT-20-06	



We hereby certify that the statement in this record is correct and the weld is prepared & welded and tested according to ASME IX.

EGAC Chairman
Dr. Eng.: Ismail A. Abd Allah
Dr. Ismail A. Abd Allah

Welding Inspector
Eng. Ibrahim Zedan
Ibrahim Zedan
CERT. No. 349902

  sepcoil 山东电建	GIZA NORTH COMBINE CYCLE Power Project 1500 MW Contract No. : 10063-CP101 (WPQR) According to ASME IX WELDERS - PERFORMANCE - QUALIFICATION This Format Covers : SMAW,GTAW,GMAW,SAW (QW-484)	 WPQ 160
Wael First Name(s)	Holal Sherif Name	W160 Stamp No.
		S/19 0 WPS used Rev.

QW	Essential Variables	Actual Values from Coupon or Production Weld	Qualified Ranges
352-356	Process(s)	GTAW& SMAW	GTAW& SMAW
Info. onl.	Base Material(s) / Thickness	SA 106 Gr.B T : 7.2 mm	to SA 106 Gr.B 14.4 mm
402.4	Backing (metal,Weld meta,etc)	Without for GTAW : With for SMAW	With& Without for GTAW /With for SMAW
403.16	Pipe outside Dia.	150 mm	73 mm - Unlimited.
403.18	P-No. To P-No.	P-No.1 to P.No.1	P-No.1 to P.No.11
404.14	Filler	with	with
404.15	F-No.	F4 for GTAW : F6 for SMAW	F1~F4 with backing : All F6
404.22	Insert(FOR GTAW)	NO	NO
404.23	Filler metal product form	SOLID	SOLID OR WELD CORED
404.30	t: Weld metal deposit	3mm GTAW : 4.2 mm SMAW	1.5mm -14.4mm
404.32	T: Limit (GMAW)	N/A	N / A
405.1	Welding Position	6G	ALL
405.3	Uphill / downhill	Vertical Uphill	Vertical Uphill
408.8	Inert backing	without	with& without
409.2	Tranf. Mode(GMAW)	N/A	N/A
409.4	AC/ DC (GTAW)	DCEN DCEP	DCEN DCEP

QW-161 GUIDED BEND TEST

Type QW-462.3 (a) (b) (Root / Face Bend)	Results:	Type QW-462.2 (Side Bend)	Results:
N/A		N/A	

Visual examination results (QW-302.4) Accepted

Radiographic test results (QW-304 and QW-305) ACCEPTED RT REPORT NO 5

(For alternative qualification of groove welds by radiography)

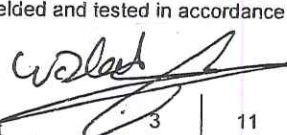
Fillet Weld – Fracture test No Length and percent of defects No in.

Macro test fusion NON Fillet leg size in. x in. Concavity/convexity in.

Welding test conducted by **ENG / WALEED ELORABY CSWIP 349991 (LEVEL II VT,UT,RT,MT,PT) KAHROMIKA QA/QC MANAGER**

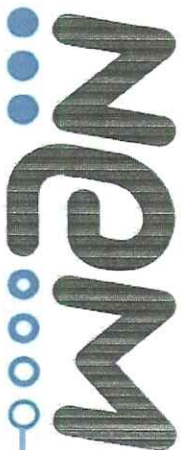
RT tests conducted by **DAF SUBCONTRACTOR**

We certify that the statements in this record are correct and that the test coupons were prepared, welded and tested in accordance with the requirements of Section IX of the ASME Code.


Waleed Eloraby
CSWIP
T, UT, MT, PT, #


KAHROMIKA QA/QC DEPARTMENT
GIZA NORTH COMBINE CYCLE POWER PROJECT
10063-CP101

Organization / Manufacturer	Date of start Signature	3 11 2012 Day Month Year
-----------------------------	----------------------------	-------------------------------------



Experience Certificate

Egypt Alexandria Public Free Zone
Street 2/6, Block number 310
Telephone +2 016 552 3915
<http://www.nem.eg>

To Whom It May Concern
This is to certify that

MR. Wael Holayel Shrief

Worked in NEM ENERGY EGYPT as a Certified Welder (GTAW-SMAW)
from (02\2014 - Present) with our entire satisfaction. During his working period we found
him a sincere, honest, hardworking, dedicated employee with a professional attitude and
very good job knowledge.
This certificate is issued to his request

QC/QA Manger

ENG. MOHAMED ABDULHATH ALI


NEM-EG
M. Abdallah
Quality Control

OP Operation Manger

MR. BOUW IDMAN


NEM
Energy Egypt

PED NoBo 1155

Certificado n.º: PTC18.03685.5120
Certificate no

Nome do Soldador (Welder's Name):

Wael Holiel Shrief Holiel

Tipo de Identificação (Type of Identification):

060

Data / Nacionalidade (Date / Place of Birth):

05/03/1984, Alexandria

Empresa (Company):

Siemens Heat Transfer Technology

Especificação do Procedimento de Soldadura do Fabricante (Manufacturer WPS): EN040

Designação (Designation): EN ISO 9606-1: 111 T BW FM4 s15.26 D219.1 H-L045 ss mb

Norma/Especificação (Code/Testing Standard):

EN ISO 9606-1: 2013

Conhecimentos Tecnológicos (Job Knowledge):

Verificado (Acceptable) / Não Verificado (Not Tested)

	Detalhe do Exame (Test Piece)	Gama Aprovação (Range of Qualification)
Processo de Soldadura (Welding Process)	111	111
Modo de Transferência (Transfer Mode)	NA	NA
Tipo de Produto (Plate or Pipe)	T	T; P
Tipo de Junta (Type of Weld)	BW	BW; Branch $\geq 60^\circ$
Material de Base (Parent Material Group(s)/Subgroups)	ISO/TR 15608 Gr.5.1	NA
Grupo do Material de Adição (Filler Metal Group(s))	FM4	FM1; FM2; FM3; FM4
Designação do Material de Adição (Designation)	EN ISO 3580-A - E CrMo91 B 4 2	All except C
Gás de Proteção (Shielding Gas)	H5	NA
Auxiliares (Auxiliaries)	NA	NA
Corrente e Polaridade (Type of Current and Polarity)	DCEP	NA
Espessura Material Base (Material Thickness) (mm)	15.26	NA
Espessura Depositada (Deposited Thickness) (mm)	15.26	NA
Diâmetro Exterior Tubo (Outside Pipe Diameter) (mm)	219.1	≥ 109.55
Posição de Soldadura (Welding Position)	H-L045	PA; PC; PE; PF
Condições de Execução (BW) (Weld Details)	ss mb	ss mb; bs
Multi-Passe/Mono-Passe (FW) (Multi-Layer/Single Layer)	NA	NA

Teste Suplementar em FW em Conjugação com BW: Verificado (Acceptable) / Não Verificado (Not Tested)
(Supplementary Fillet Weld Test, Completed in Conjunction with a Butt Weld Qualification)

Tipo de Controlo (Type of Test)	Realizado e Aceite (Performed and Acceptable)	Não Requerido (Not Required)
Visual (Visual)	0007	
Radiográfico (Radiography)	EN0026	
Partículas Magnéticas (Magnetic Particle)		X
Líquidos Penetrantes (Dye Penetrant)		X
Ultra Sons (Ultrasonic)		X
Macro (Macro)		X
Fratura (Fracture)		
Dobragem (Bend)		X
Tração com Entalhe (Notch Tensile Test)		X
Controlos Adicionais (Additional Control)		X

Examinador (Examiner):

Nome (Name):

Mohamed Bassuny

Data de Execução (Date):

2018-02-20

Assinatura (Signature):



Aprovado por (Approved by):

Nome (Name):

Nuno Martins

Data de Emissão (Date):

2018-04-18



Revalidação (Revalidation):

9.3 b)

Valido Até (Valid Until):

2020-02-19

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PED NoBo 1155

Certificado n.º: PTC18.03685.5120
Certificate no

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082012

INDIP826/2 (2018-02-05)
2/2

PED NoBo 1155

Certificado n.º: PTC18.03657.5120
Certificate no

Nome do Soldador (Welder's Name): **Wael Holiel Shrief Holiel**
 Tipo de Identificação (Type of Identification): **060**
 Data / Nacionalidade (Date / Place of Birth): **05/03/1984 / Alexandria**
 Empresa (Company): **Siemens Heat Transfer Technology**

Especificação do Procedimento de Soldadura do Fabricante (Manufacturer WPS): **EN039**Designação (Designation): **EN ISO 9606-1: 141 T BW FM4 S s4.78 D21.3 H-L045 ss gb**Norma/Especificação (Code/Testing Standard): **EN ISO 9606-1: 2013**Conhecimentos Tecnológicos (Job Knowledge): **Verificado (Acceptable) / Não Verificado (Not Tested)**

	Detalhe do Exame (Test Piece)	Gama Aprovação (Range of Qualification)
Processo de Soldadura (Welding Process)	141	141; 142; 143; 145
Modo de Transferência (Transfer Mode)	NA	NA
Tipo de Produto (Plate or Pipe)	T	T
Tipo de Junta (Type of Weld)	BW	BW; Branch $\geq 60^\circ$
Material de Base (Parent Material Group(s)/Subgroups)	ISO/TR 15608 Gr.6.4	NA
Grupo do Material de Adição (Filler Metal Group(s))	FM4	FM1; FM2; FM3; FM4
Designação do Material de Adição (Designation)	EN ISO 21952-A - W CrMo91	S; M; nm
Gás de Proteção (Shielding Gas)	ISO 14175 - I1 (99.99% Ar)	NA
Auxiliares (Auxiliaries)	ISO 14175 - I1 (99.99% Ar)	NA
Corrente e Polaridade (Type of Current and Polarity)	DCEN	NA
Espessura Material Base (Material Thickness) (mm)	4.78	NA
Espessura Depositada (Deposited Thickness) (mm)	4.78	3-9.56
Diâmetro Exterior Tubo (Outside Pipe Diameter) (mm)	21.3	21.3-42.6
Posição de Soldadura (Welding Position)	H-L045	PA; PC; PE; PF
Condições de Execução (BW) (Weld Details)	ss gb	ss gb; ss mb; bs
Multi-Passe/Mono-Passe (FW) (Multi-Layer/Single Layer)	NA	NA

Teste Suplementar em FW em Conjugação com BW: **Verificado (Acceptable) / Não Verificado (Not Tested)**
 (Supplementary Fillet Weld Test, Completed in Conjunction with a Butt Weld Qualification)

Tipo de Controlo (Type of Test)	Realizado e Aceite (Performed and Acceptable)	Não Requerido (Not Required)
Visual (Visual)	0006	
Radiográfico (Radiography)	EN0001	
Partículas Magnéticas (Magnetic Particle)		X
Líquidos Penetrantes (Dye Penetrant)	0006	
Ultra Sons (Ultrasonic)		X
Macro (Macro)	PQR-E050	
Fratura (Fracture)		X
Dobragem (Bend)	PQR-E050	
Tração com Entalhe (Notch Tensile Test)	PQR-E050	
Controlos Adicionais (Additional Control)		X

Examinador (Examiner):

Nome (Name): **Mohamed Bassuny**Data de Execução (Date): **2017-12-08**

Assinatura (Signature):



Aprovado por (Approved by):

Nome (Name): **Nuno Martins**Data de Emissão (Date): **2018-04-17**Revalidação (Revalidation): **9.3 b)**Valido Até (Valid Until): **2019-12-07**

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PED NoBo 1155

Certificado n.º: PTC18.03656.5120
Certificate no

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062012

INDIP826/2 (2018-02-05)

2/2

PED NoBo 1155

Certificado n.º: PTC18.03656.5120

Certificate no

Nome do Soldador (Welder's Name): **Wael Holiel Shrief Holiel**

Tipo de Identificação (Type of Identification): **060**

Data / Nacionalidade (Date / Place of Birth): **05/03/1984 / Alexandria**

Empresa (Company): **Siemens Heat Transfer Technology**

Especificação do Procedimento de Soldadura do Fabricante (Manufacturer WPS): **EN045**

Designação (Designation): **EN ISO 9606-1: 141 T BW FM5 S s2.77 D21.3 H-L045 ss gb**

Norma/Especificação (Code/Testing Standard): **EN ISO 9606-1: 2013**

Conhecimentos Tecnológicos (Job Knowledge): **Verificado (Acceptable) / Não Verificado (Not Tested)**

	Detalhe do Exame (Test Piece)	Gama Aprovação (Range of Qualification)
Processo de Soldadura (Welding Process)	141	141; 142; 143; 145
Modo de Transferência (Transfer Mode)	NA	NA
Tipo de Produto (Plate or Pipe)	T	T
Tipo de Junta (Type of Weld)	BW	BW; Branch ≥60°
Material de Base (Parent Material Group(s)/Subgroups)	ISO/TR 15608 Gr.8.1	NA
Grupo do Material de Adição (Filler Metal Group(s))	FM5	FM5
Designação do Material de Adição (Designation)	EN ISO 14343: W 19 9 L	S; M; nm
Gás de Proteção (Shielding Gas)	ISO 14175 - 11 (99.99% Ar)	NA
Auxiliares (Auxiliaries)	ISO 14175 - 11 (99.99% Ar)	NA
Corrente e Polaridade (Type of Current and Polarity)	DCEN	NA
Espessura Material Base (Material Thickness) (mm)	2.77	NA
Espessura Depositada (Deposited Thickness) (mm)	2.77	2.77~5.54
Diâmetro Exterior Tubo (Outside Pipe Diameter) (mm)	168.3	21.3~42.6
Posição de Soldadura (Welding Position)	H-L045	PA; PC; PE; PF
Condições de Execução (BW) (Weld Details)	ss gb	ss gb; ss mb; bs
Multi-Passe/Mono-Passe (FW) (Multi-Layer/Single Layer)	NA	NA

Teste Suplementar em FW em Conjugação com BW: **Verificado (Acceptable) / Não Verificado (Not Tested)**
(Supplementary Fillet Weld Test, Completed in Conjunction with a Butt Weld Qualification)

Tipo de Controlo (Type of Test)	Realizado e Aceite (Performed and Acceptable)	Não Requerido (Not Required)
Visual (Visual)	0006	
Radiográfico (Radiography)	EN003	
Partículas Magnéticas (Magnetic Particle)		X
Líquidos Penetrantes (Dye Penetrant)	0006	
Ultra Sons (Ultrasonic)		X
Macro (Macro)	PQR-E053	
Fratura (Fracture)		X
Dobragem (Bend)	PQR-E053	
Tração com Entalhe (Notch Tensile Test)		X
Controlos Adicionais (Additional Control)		X

Examinador (Examiner):

Nome (Name): **Mohamed Bassuny**

Data de Execução (Date): **2017-12-08**

Assinatura (Signature):

Aprovado por (Approved by):

Nome (Name):

Nuno Martins

Data de Emissão (Date):

2018-04-17

Revalidação (Revalidation): **9.3 b)**

Valido Até (Valid Until): **2019-12-07**

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PED NoBo 1155

Certificado n.º: PTC18.03686.5120

Certificate no

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SIEMENS**SIEMENS Heat Transfer Technology Free Zone LLC****WELDER PERFORMANCE QUALIFICATION (WPQ)**

Welder ID : 060

Certificate No. : WQT-147

Welder Name : Wael Holiel Shrief Holiel

* Re-Issue : 2018-01-01

* Rev. 1

* Created on : 2014-08-17

Process : GTAW-SMAW

☒ ASME IX☐ AWS D1.1

WPS No. : 02

No. of passes (3 Layers Min.) : YES (SMAW)

Type : Manual

☒ Test Coupon☐ Production Weld

QW	VARIABLES	ACTUAL VALUES		QUALIFIED VALUES	
300.1	(Ø) Welding Process	GTAW	SMAW	GTAW	SMAW
402.4	(-) Backing	Without	With	With/Without	With
403.16	Pipe Outside Diameter	(8" NPS - 18.26mm)		[Groove: D≥2 7/8" (2 1/2" NPS)] & [Fillet: All]	
403.18	P-No. to P-No.	P-No. 1		P-No. 1 through P-No. 15F, P-No. 34, and P-No. 41 through P-No. 49	
404.14	(±) Filler : (GTAW)	With Filler	N/A	With Filler	N/A
404.12	Filler Metal Class. (Specif.)	ER 70S-3 (5.18)	E 7018 (5.1)	F-No. 6	F-No. 1, 2, 3 & 4
404.15	F-No.	F-No. 6	F-No. 4		
404.22	(±) Insert : (GTAW)	Without	N/A	Without	N/A
404.23	Product Form : (GTAW)	Solid	N/A	Solid	N/A
404.30	(t) Deposited	3.26 mm	15 mm	6.52 mm Max.	Max. to be welded
404.32	(t) Limit S.C : (GTAW)	N/A		N/A	
405.1	(+) Position	6G		All Positions	
405.3	(Ø) Progression	Uphill		Uphill	
408.8	(-) Inert Backing	Without	N/A	With/Without	N/A
409.2	Transfer Mode : (GTAW)	N/A		N/A	
409.4	(Ø) Current Type/Polarity	DC/EN	DC/EP	DC/EN	DC/EP
410.10	Single or Multiple Electrode	Single		Single	

(QW-302.2) Radiographic Test : Report No. : 0125

Result : ACC

(QW-302.4) Visual Examination : Report No. : 0045

Result : ACC

(QW-181.2) Fillet Weld-Fracture Test : None

(QW-160) Guided bend Test : None

(QW-183) Macro Examination : None

NDT Conduct by

MEGA Petroleum Services

Date : 2014-08-17

Mech. Test Conducted by :

Date :

We certify that the statements in this record are correct and that the test coupons were prepared, welded, and tested in accordance with the requirements of section IX.

Welding Engineer

NoBo

Renewal Date	2018-07-01	2019-01-01	2019-07-01	2020-01-01	2020-07-01	2021-01-01	2021-07-01
Sign.							
Stamp							
Renewal Date	2022-01-01	2022-07-01	2023-01-01	2023-07-01	2024-01-01	2024-07-01	2025-01-01
Sign.							
Stamp							

Note: * Re-issue date refer to updated rev. of certificate according to company name changed

Exhibit No. 07-03 Rev. 0

SIEMENS**SIEMENS Heat Transfer Technology Free Zone LLC****WELDER PERFORMANCE QUALIFICATION (WPQ)**

Welder ID : 060

Certificate No. : WQT-148

* Rev. 1

Welder Name : Wael Holiel Shrief Holiel

* Re-Issue : 2018-01-01

* Created on : 2014-08-17

Process : GTAW-SMAW

☒ ASME IX☐ AWS D1.1

WPS No. : 02

No. of passes (3 Layers Min.) : N/A

Type : Manual

☒ Test Coupon☐ Production Weld

QW	VARIABLES	ACTUAL VALUES		QUALIFIED VALUES	
300.1	(Ø) Welding Process	GTAW	SMAW	GTAW	SMAW
402.4	(-) Backing	Without	With	With/Without	With
403.16	Pipe Outside Diameter	(0.5" NPS - 7.47mm)		Groove: D≥0.5" (21.3mm) (0.5" NPS)] & [Fillet:A	
403.18	P-No. to P-No.	P-No. 1		P-No. 1 through P-No. 15F, P-No. 34, and P-No. 41 through P-No. 49	
404.14	(±) Filler : (GTAW)	With Filler	N/A	With Filler	N/A
404.12	Filler Metal Class. (Specif.)	ER 70S-3 (5.18)	E 7018 (5.1)	F-No. 6	F-No. 1, 2, 3 & 4
404.15	F-No.	F-No. 6	F-No. 4		
404.22	(±) Insert : (GTAW)	Without	N/A	Without	N/A
404.23	Product Form : (GTAW)	Solid	N/A	Solid	N/A
404.30	(t) Deposited	3 mm	4.47 mm	6 mm Max.	8.94 mm Max.
404.32	(t) Limit S.C. : (GTAW)	N/A		N/A	
405.1	(+) Position	6G		All Positions	
405.3	(Ø) Progression	Uphill		Uphill	
408.8	(-) Inert Backing	Without	N/A	With/Without	N/A
409.2	Transfer Mode : (GTAW)	N/A		N/A	
409.4	(Ø) Current Type/Polarity	DC/EN	DC/EP	DC/EN	DC/EP
410.10	Single or Multiple Electrode	Single		Single	

(QW-302.2) Radiographic Test : Report No. : 0125A

Result : ACC

(QW-302.4) Visual Examination : Report No. : 0045

Result : ACC

(QW-181.2) Fillet Weld-Fracture Test : None

(QW-160) Guided bend Test : None

(QW-183) Macro Examination : None

NDT Conduct by : MEGA Petroleum Services

Date : 2014-08-17

Mech. Test Conducted by :

Date :

We certify that the statements in this record are correct and that the test coupons were prepared, welded, and tested in accordance with the requirements of section IX.

Welding Engineer

NoBo

Renewal Date	2018-01-01	2019-01-01	2019-07-01	2020-01-01	2020-07-01	2021-01-01	2021-07-01
Sign.							
Stamp							
Renewal Date	2022-01-01	2022-07-01	2023-01-01	2023-07-01	2024-01-01	2024-07-01	2025-01-01
Sign.							
Stamp							

Note: * Re-issue date refer to updated rev. of certificate according to company name changed

Exhibit No. 07-03 Rev. 0

SIEMENS

SIEMENS Heat Transfer Technology Free Zone LLC

WELDER PERFORMANCE QUALIFICATION (WPQ)



Welder ID : 060

Certificate No. : WQT-133

* Rev. 1

Welder Name : Wael Holiel Shrief Holiel

* Re-Issue : 2018-01-01

* Created on : 2014-08-08

Process : GTAW-SMAW

☒ ASME IX☐ AWS D1.1

WPS No. : 02

No. of passes (3 Layers Min.) : N/A

Type : Manual

☒ Test Coupon☐ Production Weld

QW	VARIABLES	ACTUAL VALUES		QUALIFIED VALUES	
300.1	(Ø) Welding Process	GTAW	SMAW	GTAW	SMAW
402.4	(-) Backing	Without	With	With/Without	With
403.16	Pipe Outside Diameter	(2.5" NPS - 7.01mm)		[Groove: D≥1" (25mm)] & [Fillet: All]	
403.18	P-No. to P-No.	P-No. 1		P-No. 1 through P-No. 15F, P-No. 34, and P-No. 41 through P-No. 49	
404.14	(±) Filler : (GTAW)	With Filler	N/A	With Filler	N/A
404.12	Filler Metal Class. (Specif.)	ER 70S-3 (5.18)	E 7018 (5.1)	F-No. 6	F-No. 1, 2, 3 & 4
404.15	F-No.	F-No. 6	F-No. 4		
404.22	(±) Insert : (GTAW)	Without	N/A	Without	N/A
404.23	Product Form : (GTAW)	Solid	N/A	Solid	N/A
404.30	(t) Deposited	3 mm	4.01 mm	6 mm Max.	8.02 mm Max.
404.32	(t) Limit S.C : (GTAW)	N/A		N/A	
405.1	(+) Position	6G		All Positions	
405.3	(Ø) Progression	Uphill		Uphill	
408.8	(-) Inert Backing	Without	N/A	With/Without	N/A
409.2	Transfer Mode : (GTAW)	N/A		N/A	
409.4	(Ø) Current Type/Polarity	DC/EN	DC/EP	DC/EN	DC/EP
410.10	Single or Multiple Electrode	Single		Single	

(QW-302.2) Radiographic Test : Report No. : 0119

Result : ACC

(QW-302.4) Visual Examination : Report No. : 0040

Result : ACC

(QW-181.2) Fillet Weld-Fracture Test : None

(QW-160) Guided bend Test : None

(QW-183) Macro Examination : None

NDT Conduct by : MEGA Petroleum Services

Date : 2014-08-08

Mech. Test Conducted by

Date :

We certify that the statements in this record are correct and that the test coupons were prepared, welded, and tested in accordance with the requirements of section IX.

Welding Engineer

NoBo

Renewal Date	2018-07-01	2019-01-01	2019-07-01	2020-01-01	2020-07-01	2021-01-01	2021-07-01
Sign.							
Stamp							
Renewal Date	2022-01-01	2022-07-01	2023-01-01	2023-07-01	2024-01-01	2024-07-01	2025-01-01
Sign.							
Stamp							

Note: * Re-issue date refer to updated rev. of certificate according to company name changed

Exhibit No. 07-03 Rev. 0

PED NoBo 1155

Certificado n.º: PTC18.03686.5120
Certificate no

Nome do Soldador (Welder's Name): **Wael Holiel Shrief Holiel**

Tipo de Identificação (Type of Identification): **060**

Data / Nacionalidade (Date / Place of Birth): **05/03/1984, Alexandria**

Empresa (Company): **Siemens Heat Transfer Technology**

Especificação do Procedimento de Soldadura do Fabricante (Manufacturer WPS): **EN040**

Designação (Designation): **EN ISO 9606-1: 141/111 T BW FM4 S/B s3/2.54 D60.3 H-L045 ss gb/ss mb**

Norma/Especificação (Code/Testing Standard): **EN ISO 9606-1: 2013**

Conhecimentos Tecnológicos (Job Knowledge): **Verificado (Acceptable) / Não Verificado (Not Tested)**

	Detalhe do Exame (Test Piece)	Gama Aprovação (Range of Qualification)
Processo de Soldadura (Welding Process)	141/111	141; 142; 143; 145 / 111
Modo de Transferência (Transfer Mode)	NA	NA
Tipo de Produto (Plate or Pipe)	T	T; P
Tipo de Junta (Type of Weld)	BW	BW; Branch ≥60°
Material de Base (Parent Material Group(s)/Subgroups)	ISO/TR 15608 Gr.5.1	NA
Grupo do Material de Adição (Filler Metal Group(s))	FM4	FM1; FM2; FM3; FM4
Designação do Material de Adição (Designation)	EN ISO 21952-A - W CrMo91-EN ISO 3580-A - E CrMo91 B 4 2 H5	141: S; M; nm / 111: All except C
Gás de Proteção (Shielding Gas)	141: ISO 14175 - I1 (99.99% Ar)	NA
Auxiliares (Auxiliaries)	141: ISO 14175 - I1 (99.99% Ar)	NA
Corrente e Polaridade (Type of Current and Polarity)	141: DCEN; 111: DCEP	NA
Espessura Material Base (Material Thickness) (mm)	5.54	NA
Espessura Depositada (Deposited Thickness) (mm)	141: 3; 111: 2.54	141: 3~6; 111: 2.54~5.08
Diâmetro Exterior Tubo (Outside Pipe Diameter) (mm)	60.3	≥30.15
Posição de Soldadura (Welding Position)	H-L045	PA; PC; PE; PF
Condições de Execução (BW) (Weld Details)	141: ss gb; 111: ss mb	141: ss gb; ss mb; bs 111: ss mb; bs
Multi-Passe/Mono-Passe (FW) (Multi-Layer/Single Layer)	NA	NA

Teste Suplementar em FW em Conjugação com BW: **Verificado (Acceptable) / Não Verificado (Not Tested)**
(Supplementary Fillet Weld Test, Completed in Conjunction with a Butt Weld Qualification)

Tipo de Controlo (Type of Test)	Realizado e Aceite (Performed and Acceptable)	Não Requerido (Not Required)
Visual (Visual)	0007	
Radiográfico (Radiography)	EN0020	
Partículas Magnéticas (Magnetic Particle)		X
Líquidos Penetrantes (Dye Penetrant)		X
Ultra Sons (Ultrasonic)		X
Macro (Macro)		X
Fratura (Fracture)		
Dobragem (Bend)		X
Tração com Entalhe (Notch Tensile Test)		X
Controlos Adicionais (Additional Control)		X

Examinador (Examiner):

Nome (Name): **Mohamed Bassuny**

Data de Execução (Date): **2018-02-20**

Assinatura (Signature):

Revalidação (Revalidation): **9.3 b)**

Valido Até (Valid Until): **2020-02-19**

Aprovado por (Approved by):

Nome (Name): **Nuno Martins**

Data de Emissão (Date): **2018-04-18**

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SGS Portugal, S.A.

Pólo Tecnológico de Lisboa, Lote 6, Pisos 0, 1 e 2, 1600-546 Lisboa, t(+351)217 104 200, f(+351)707 200 329
Rua Padre António, 232, Piso 4 - Fração 4.4, 4470-136 Maia, t(+351)229 994 500, f(+351)707 200 329
Capital Social 500.000 Euros - Reg. Com. de Lisboa - Contribuinte nº 500 417 660 - Mail: pt.info@sgs.com - Web: www.sgs.pt - Linha SGS: 707 200 747

SIEMENS**SIEMENS Heat Transfer Technology Free Zone LLC****WELDER PERFORMANCE QUALIFICATION (WPQ)**

Welder ID : 060

Certificate No. : WQT-134

* Rev. 1

Welder Name : Wael Holiel Shrief Holiel

* Re-Issue : 2018-01-01

* Created on : 2014-08-08

Process : GTAW

☒ ASME IX☐ AWS D1.1

WPS No. : 44

No. of passes (3 Layers Min.) : N/A

Type : Manual

☒ Test Coupon☐ Production Weld

QW	VARIABLES	ACTUAL VALUES	QUALIFIED VALUES
300.1	(Ø) Welding Process	GTAW	GTAW
402.4	(-) Backing	Without	With/Without
403.16	Pipe Outside Diameter	(4" NPS - 6.02mm)	[Groove: D ₂ (2 1/2" NPS)] & [Fillet: All]
403.18	P-No. to P-No.	P-No. 1	P-No. 1 through P-No. 15F, P-No. 34, and P-No. 41 through P-No. 49
404.14	(±) Filler : (GTAW)	With Filler	With Filler
404.12	Filler Metal Class. (Specif.)	ER NICK-3 (5.14)	F-No.34 & All F-No.41 through F-No.46
404.15	F-No.	F-No. 43	
404.22	(±) Insert : (GTAW)	Without	Without
404.23	Product Form : (GTAW)	Solid	Solid
404.30	(t) Deposited	6.02 mm	12.04 mm Max.
404.32	(t) Limit S.C : (GTAW)	N/A	N/A
405.1	(+) Position	6G	All Positions
405.3	(Ø) Progression ↑↓	Uphill	Uphill
408.8	(-) Inert Backing	With	With
409.2	Transfer Mode : (GTAW)	N/A	N/A
409.4	(Ø) Current Type/Polarity	DCEN	DCEN
410.10	Single or Multiple Electrode	Single	Single

(QW-302.2) Radiographic Test : Report No. : 0119

Result : ACC

(QW-302.4) Visual Examination : Report No. : 0040

Result : ACC

(QW-181.2) Fillet Weld-Fracture Test : None

(QW-160) Guided bend Test : None

(QW-183) Macro Examination : None

NDT Conduct by : MEGA Petroleum Services

Date : 2014-08-08

Mech. Test Conducted by :

Date :

We certify that the statements in this record are correct and that the test coupons were prepared, welded, and tested in accordance with the requirements of section IX.

Welding Engineer

NoBo

Renewal Date	2018-07-01	2019-01-01	2019-07-01	2020-01-01	2020-07-01	2021-01-01	2021-07-01
Sign.							
Stamp							
Renewal Date	2022-01-01	2022-07-01	2023-01-01	2023-07-01	2024-01-01	2024-07-01	2025-01-01
Sign.							
Stamp							

Note: * Re-issue date refer to updated rev. of certificate according to company name changed

Exhibit No. 07-03 Rev. 0

WELDER QUALIFICATION CERTIFICATE



Client	ANRPC	Date	16/11/2017
Project Name	HEATER COIL SKIN THERMOCOUPLE REPLACEMENT PLATFORMING UNIT 300 -H -01		
Welding Process	GTAW	W.P.S. No.	EMC-SWS-01/2017
Process Type	MANUAL	P.Q.R. No.	P 05B/08
		Code	ASME IX

Identification of WPS followed : ☒ TEST COUPON ☐ PRODUCTION TEST

Welder Qualification Record

Welder Name Wael Holayel Selem
Welder Stamp M24
WPS No. EMC-SWS-01/2017
Code ASME IX

S.N	BRIEF OF VAEIABLES	QUALIFIED WITH	QUALIFIED FOR
1	P No.	5B	1 to 15F , 34 , 41 to 49
2	PIPE DIAMETER	3 in.	2 7/8 in. - UNLIMITED
3	BACKING	WITHOUT	WITH & WITHOUT
4	INERT GAS BACKING	99.99% ARGON	99.99% ARGON
5	F No.	6	ALL F No. 6
6	AWS Specification	ER80S-B8	ER80S-B8
7	INSERT	N/A	N/A
9	WELD DEPOSIT	6	12mm
10	TEST SPECIMEN	PIPE	PIPE & PLATE
11	POSITION	6 G	ALL
12	Progression	UPHILL	UPHILL
13	CURRENT/ POLARITY	DCEN & DCEP	ALL
14	S F A Specification	A 5.28	A 5.28

RESULT

VISUAL EXAMINATION OF COMPLETED WELD (QW-302.4) ACCEPT

- ☐ BEND TEST ☐ TRASVERSE ROOT AND FACE (QW-462.3(a))
☐ LONGITUDINAL ROOT AND FACE (QW-462.3(b)) ☐ SIDE (QW-462.2)
☐ PIPE BEND SPECIMEN,CORROSION-RESISTANT OVERLAY (QW-462.5(c)) MACRO TEST FOR FUSION (QW-462.5)(b))
☐ PLATE BEND SPECIMEN,CORROSION -RESISTANT OVERLAY (QW-472.5(d)) MACRO TEST FOR FUSION (QW-462.5)(e))

TYPE	RESULT	TYPE	RESULT	TYPE	RESULT
TENION (0°)	---	FACE BEND		SIDE BEND	
TENION (180°)	---	FACE BEND		SIDE BEND	

ALTERNATIVE RADIOGRAPHIC EXAMINATION RESULTS (QW-191)

REP. NO. : 1

OTHER TESTS

N/A

FILM OR SPECIMENS EVALUATED BY ENG\ Ali Hamed Moustafa Dahroug
ENG\ Tarek Ibrahim

COMPANY: EMC
COMPANY: ANRPC

WE CERTIFY THAT THE STATEMENTS IN THIS RECORD ARE CORRECT AND THAT TEST COUPONS WERE PREPARED,WELDED,AND TESTED
IN ACCORDANCE WITH THE REQUIREMENT OF SECTION IX OF THE ASME BOILER AND PRESSURE VESSEL CODE.

THE WELDER MENTIONED ABOVE WERE TESTED AND PASSED THE QUALIFICATION TEST AND BE QUALIFIED UP TO 6 MONTH

1	APPROVED	NAME : <u>Ali Hamed Moustafa Dahroug</u>	NAME : <u>Tarek Mohamed Ibrahim</u>
		DATE : <u>16/11/2017</u>	DATE : <u>16/11/2017</u>
		SIGN : <u>[Signature]</u>	SIGN : <u>[Signature]</u>

CWI 1010-621
QC1 EXP. 10/1/2019

20/11/2017
Api inspector
ID 43158

Wael Holiel Shrief Holiel

JOB : Argon and electricity welding

Tel : 01220015817 & 01282464046

PERSONAL DATA:

Name : Wael Holiel Shrief Holiel
Date of Birth : 05/03/1984
Nationality : Egyptian.
Postal Address : Kafr Eldwar ,Beheira.
E-mail : Waelhelaiei3@gmail.com
Marital status : Married.
Military service : Led service.
Job : Argon and electricity welding

Work Experience

Kheromica (sepco)	West Cairo Electricity Station
Anergya	Al Ain Sokhna
Hassan Allam (UHDE)	Al Ain Sokhna
NEM ENERGY	Alexandria Free Zone
SIEMENS	Alexandria Free Zone
San MASR (Anbarak)	Alexandria Oil Refining
Mariout	Al Ain Sokhna
Bshai Steel	Sadat City

SIEMENS WELDER ID CARD

Code: DIN EN ISO 9606-1

ID No. : N060

Name : Wael Holiel Shrief Holiel

Process	☒ 141	☒ 111	☐ 136	☐ 121
Position	H-L045	H-L045		
Thk. Quali.	2.77 to 9.56	≥ 3		
Out. Dia.	≥ 1.3	≥ 30.15		

Filler Metal Group :
FM1, FM2, FM3, FM4 & FM5 For (141) and FM1, FM2, FM3 & FM4 For (111)
BW, Branch ≥ 60°C

Uhde **AMMONIA UREA ENPC PROJECT**

QUALITY CONTROL DEPARTMENT

WELDER QUALIFICATION CARD

EHC

HASSAN ATTAM *Drake & Scull*

Name : Wael Halil Sherif

Welder No. : HAC211

Date of Test : 5/9/2013

QC Inspector *22 SEP 2013*

HAC. QC Uhde QC EHC QC

SIEMENS Code of Practice : ASME IX

WELDER ID CARD

ID No. : N060

Name : Wael Holiel Shrief Holiel

Process	☒ GTAW	☒ SMAW	☐ FCAW	☐ SAW
Position	6G	6G		
Max. Thick.	12.04 mm	Max.		
Min. Dia.	0.5" Min.	0.5" Min.		

F No. : 1, 2, 3, 4 & 6 - With for 1, 2, 3, 4 & Without for 6, 34 & 41:46

P No. : P No. 1 to P No. 15F & P No. 41 to P No. 49

Code of Practice : ASME IX

WELDER ID CARD

ID No. : N060

Name : Wael Holiel

Process	☒ GTAW	☒ SMAW	☐ FCAW	☐ SAW
Position	6G	6G		
Max. Thick.	12.04 mm	Max.		
Min. Dia.	0.5" Min.	0.5" Min.		

F No. : 1, 2, 3, 4 & 6 - With for 1, 2, 3, 4 & Without for 6, 34 & 41:46

P No. : P No. 1 to P No. 15FP No. 41 to P No. 49

MEC MARIOUT
ENGINEERING AND CONSTRUCTION

Welder ID Card

NAME : WAEL HOLIL

STAMP No.: M-146
Issue date: 01-Mar-14

WELDING ENG.

Ala'a Roshdy

Welding Dept

Code of Practice : ASME IX & PED

WELDER ID CARD

ID No. : N060

Name : Wael Holiel

Process	☒ GTAW	☒ SMAW	☐ FCAW	☐ SAW
Position	6G	6G		
Max. Thick.	20 mm	8.04 mm		
Min. Dia.	1" Min	1" Min		

F No. : 1, 2, 3, 4 & 6 - With for 1, 2, 3, 4 and Without for 6

P No. : P No. 1 to P No. 15FP No. 41 to P No. 49

	Test Piece	Range of Qualification
Welding Process (s)	GTAW	GTAW
Product Type (Plate or Pipe)	PIPE	PIPE&PLATE
Type of Weld	Butt Weld	Butt & Fillet Welds
Base Metal P Number	P-No1	P-No.1 Through P-No.15F, P-No.34, P-No.41 Through P-No.49
Thickness	6	6
Shielding Gas	N/A	with /without backing gas
Backing (Material, Weld Metal, etc.)	N/A	with backing, without backing and welding both side
Material Thickness (mm)	3.91mm & 7.11 mm	Groove: (up to 14.22 mm) - Fillet: (all)
Outside Pipe Diameter (mm)	2" & 6"	≥ 1"
Welding Position	6G	Groove: (all) - Fillet: (all)
Current Polarity	DCEN	DCEN
Direction	UPHILL	UPHILL

Qualified to WPS No.: HAC03BGW

Certificates :-

- 1 PTC18.03656.5120
- 2 PTC18.03657.5120
- 3 PTC18.03685.5120
- 4 PTC18.03686.5120

SIEMENS

SIEMENS Heat Transfer Technology LLC

Q.C. Manager
Mohamed Abdallah Ali

SIEMENS Heat Transfer Technology LLC
QCM
Quality Control

Certificates :-

WQT-133
WQT-134
WQT-147
WQT-148

NQM
OUR ENERGY, YOUR POWER

Q.C Manager : Mohamed Abdallah Ali
Issue Date : 17-08-14

Certificates :-

- 1 WQT-133 >G-S
- 2 WQT-134 >G
- 3 WQT-147 >G-S
- 4 WQT-148 >G-S

SIEMENS

SIEMENS Heat Transfer Technology LLC

Q.C. Manager Mohamed Abdallah Ali
Issue Date : 17-08-2014

SIEMENS Heat Transfer Technology LLC
QCM
Quality Control

Certif. :-

WQT-E28
WQT-E36

NQM
OUR ENERGY, YOUR POWER

Bandirma II Project Only

Q.C Manager
M. Abdallah Ali
QCM
Quality Control

Welder Qualification

BASE METAL P-No.	WELDING PROCESS	FILLER METAL		DIAM. RANGE INCH	THK. Mm	POS.
		With	Without			
P-No. 1 to P-No. 15F	GTAW	FNO.6	FNO.6	1" TO UNLIMITED	3.91 mm to 7.82 mm	ALL

THIS QUALIFICATION CERTIFICATE IS TO CERTIFY THAT WELDER HAS PASSED QUALIFICATION TEST CARRIED OUT BY MARIOUT WELDING DEPT. IN ACCORDANCE WITH REQUIREMENTS OF ASME SECTION IX. VALIDITY OF QUALIFICATION CERTIFICATE IS ONLY FOR EZZ-DRI.

Code of Practice : ASME IX

WELDER ID CARD

ID No. : N060

Name : Wael Holiel



Process	☒ GTAW	☒ SMAW	☐ FCAW	☐ SAW
Position	6G	6G		
Max. Thick.	12.04 mm	Max.		
Min. Dia.	0.5" Min.	0.5" Min.		

F No. : 1, 2, 3, 4 & 6 - With for 1, 2, 3, 4 & Without for 6, 34 & 41:46

P No. : P No. 1 to P No. 15FP No. 41 to P No. 49



WELDER WELDING OPERATOR PERMANENT
AUTHORIZATION TO WELD



Project Title : MIDOR Refinery Expansion

PROJECT No. : 2544-cs0000-02

Welder's Name : WAEL HOLIEL
ABOMDAWY

STAMP_NO : G-416
ISSUE Date : 01-03-21



PETROJET	Third Party(TPI)	TIEB	MIDOR
<i>Karim Kahl</i>	<i>Wael Holiel</i>	<i>Wael Holiel</i>	
2/3/2021	3/3/2021	3/8/2021	

Code of Practice : ASME IX

WELDER ID CARD

ID No. : N060

Name : Wael Holiel



Process	☒ GTAW	☒ SMAW	☐ FCAW	☐ SAW
Position	6G	6G		
Max. Thick	8 mm	Max.		
Min. Dia.	1" Min.	1" Min.		

F No. : 1, 2, 3, 4 & 6 - With for 1, 2, 3, 4 & Without for 6

P No. : P No. 1 to P No. 15FP No. 41 to P No. 49



Welder ID Card

Name : Wael Hulil

Stamp No.: M-146
Issue date: 07-Jul-14

Welding Eng.

Ahmed Safwat



Welder ID Card

Name : Wael Hulil

Stamp No.: M-146-ST1
Issue date: 07-Jul-14

Welding Eng.

Ahmed Safwat



Welder I.D.

Project : ANRPC S/D
Name : Wael Holayel
Stamp No. : M 04
Position : 6G
P-NO. : 1 to 15F, 34, 41 to 49
Dia. Range : 27/8 in. to unlimited
Thick. Range : 12mm
Process : GTAW



WPS NO. : 2544-P1-WPS-001
 PROCESS : GTAW
 Base Metal Qualified : P1 TO P15F
 Base Metal T : 5.54
 Pipe Diameter : 2"
 OUT (in) Range : $\geq 1"$ (25) to unlimited

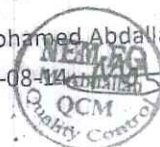
Qualified thickness t : 11.08
 Filler Metal (F.NO.) : 6
 AWS Filler Class : A5.18
 Position : 6G
 Up / Down Hill : UP
 Current - AC or DC : DC Current (EN)
 Backing : With / Without

Certificates :-

WQT-133
 WQT-134
 WQT-147
 WQT-148

NEM
 OUR ENERGY, YOUR POWER

Q.C Manager : Mohamed Abdallah Ali
 Issue Date : 17-08-2015



Welder Qualification

Base Metal	Welding Process	Filler Metal		DIAM. Range in in"	THK. Mm	POS.
		With	Without			
P No. 8	GTAW	Fno.6	Fno.6	1" To Unlimited	Up to 7.82 mm	All

This qualification certificate is to certify that the welder has passed qualification test that carried out by Mariout Welding Dept. In accordance with requirement of ASME IX. And the validity of qualification certificate is only for EZZ-DRI

Certificates :-

WQT-138
 WQT-144

NEM
 OUR ENERGY, YOUR POWER

Q.C Manager : Mohamed Abdallah Ali
 Issue Date : 01-07-2015



Moh

Welder Qualification

Base Metal	Welding Process	Filler Metal		DIAM. Range in in"	THK. Mm	POS.
		With	Without			
P-No. 1 through P-No. 15F, P-No. 34 and P-No. 41 through P-No. 49	GTAW	Fno.6	Fno.6	0.5" To Unlimited	Up to 12.4 mm	All

This qualification certificate is to certify that the welder has passed qualification test that carried out by Mariout Welding Dept. In accordance with requirement of ASME IX. And the validity of qualification certificate is only for EZZ-DRI

W.P.S NO. : EMC-SWS-01/2017

Date of test : 16/11/2017
 Validity : up to 6 month

EMC. rep.:

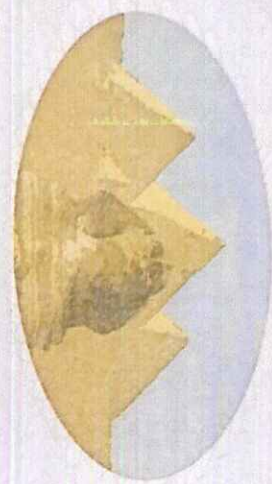
ANRPC rep.



	QUALIFIED WELDER ID CARD		WELDER QUALIFICATION DATA STAMP NO W034	
		NAME: WAEEL HELAYEL SHERIF SURNAME: HELAYEL Project: SC03 SICIM QA/QC KRISANU BHUNIA CLIENT: <i>[Signature]</i> BUREAU VERITAS WITNESSED ☐ <i>[Signature]</i> M17 REVIEWED ☐ 15/4/22	WPSs: IQ077-WPS-BW-001-21, IQ077-WPS-FW-001-21, IQ077-WPS-GW-001-21 PROCESS (es): GTAW POSITION: ALL BASE MATERIALS: P-No.1 THROUGH P-No.15F, P-No.34 AND P-No.41 THROUGH P-No.49 FILLER MATERIALS: Process 1: All F6. O.D. RANGE: FROM 25 mm TO UNLIMITED/ UNLIMITED FOR FILLET WELDS W.T. RANGE: WALL THICKNESS $\leq$ 11.08/ UNLIMITED FOR FILLET WELDS Validity Date FROM: 15-Apr-22	Stamp No. W034

	QUALIFIED WELDER ID CARD		WELDER QUALIFICATION DATA STAMP NO W034	
		NAME: WAEEL HELAYEL SURNAME: WAEEL HELAYEL Project: SC03 SICIM QA/QC Niyaz Fakir CLIENT: <i>[Signature]</i> BUREAU VERITAS WITNESSED ☐ <i>[Signature]</i> M17 REVIEWED ☐ 19/02/23	WPSs: IQ077-WPS-BW-001-21, IQ077-WPS-FW-001-21, IQ077-WPS-GW-001-21 PROCESS (es): GTAW POSITION: ALL BASE MATERIALS: P-No.1 THROUGH P-No.15F, P-No.34 AND P-No.41 THROUGH P-No.49 FILLER MATERIALS: Process 1: All F6. O.D. RANGE: FROM 21.3 mm TO UNLIMITED/ UNLIMITED FOR FILLET WELDS W.T. RANGE: WALL THICKNESS $\leq$ 7.46/ UNLIMITED FOR FILLET WELDS Validity Date FROM: 19-Feb-23	Stamp No. W034

	QUALIFIED WELDER ID CARD		WELDER QUALIFICATION DATA STAMP NO W034	
		NAME: WAEEL HELAYEL SURNAME: WAEEL HELAYEL Project: SC03 SICIM QA/QC Pankaj kumar CLIENT: <i>[Signature]</i> BUREAU VERITAS WITNESSED ☐ <i>[Signature]</i> Ali Majeed REVIEWED ☐ 14-Sep-22	WPSs: IQ077-WPS-BW-005-21, IQ077-WPS-FW-005-21, IQ077-WPS-GW-005-21 PROCESS (es): GTAW+SMAW POSITION: ALL BASE MATERIALS: P-No.1 THROUGH P-No.15F, P-No.34 AND P-No.41 THROUGH P-No.49 FILLER MATERIALS: Process 1: All F6, Process 2: F1, F5 (WITH BACKING) O.D. RANGE: FROM 73 mm TO UNLIMITED/ UNLIMITED FOR FILLET WELDS W.T. RANGE: GTAW-up to 7 mm & SMAW-UNLIMITED Validity Date FROM: 14-Sep-22	Stamp No. W034



ARAB REPUBLIC OF
EGYPT

يشمل هذا الجواز ٥٢ صفحة
This Passport contains 52 Pages



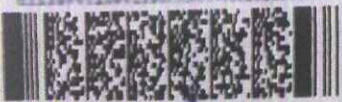
Type / النوع Country Code / رمز البلد Passport No / رقم الجواز
P EGY A23549009
وائل هليل شريف هليل ابومضاوي

Full Name
Wael Helayel Sherif Helayel
Aboumady

ABOUMADAWI		تاريخ الميلاد	مكان الميلاد
Date of Birth	Place Of Birth	١٩٨٤/٢/٠٥	البحيرة
05/03/1984	BEHEIRA	الجنسية	مصرى
Nationality	Sex	ذكر	
EGYPTIAN	M	تاريخ الإصدار	تاريخ الانتهاء
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الوظيفة / المهنة: لحام كهربائي ش.تم
الرجى ايجبت
Profession: WELDER

المؤلف: التجليدي: غير مطلوب
الحنوان: الوسطائية كفر الدوار البحيرة



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