Work Order No.: 1910681



September 12, 2019

Arcelor Mittal USA, Inc. 250 W US Highway 12 Burns Harbor, IN 46304-9745

Re: Daily

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 14 sample(s) on 9/12/2019 10:00:00AM for the analyses presented in the following report as Work Order 19I0681.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please contact your project manager. For any feedback, please contact Ron Misiunas, Division Manager, at ron.misiunas@microbac.com.

Sincerely,

Microbac Laboratories, Inc.

Carry Hadzala

Carey Gadzala Project Manager



Thursday, September 12, 2019

Date:

WORK ORDER SAMPLE SUMMARY

Client: Arcelor Mittal USA, Inc.

Project: Daily Lab Order: 1910681

Lab Sample ID 1910681-01	Client Sample ID 011-Composite	Tag Number 011	Collection Date 09/11/2019 05:55	Date Received 9/12/2019 10:00:00AM
	•			
1910681-02	011-Grab	011	09/11/2019 05:55	9/12/2019 10:00:00AM
1910681-03	001-Composite	001	09/11/2019 06:15	9/12/2019 10:00:00AM
1910681-04	001-Grab	001	09/11/2019 06:15	9/12/2019 10:00:00AM
1910681-05	Mixed Liquor-Grab	Mixed Liquor	09/12/2019 06:33	9/12/2019 10:00:00AM
1910681-06	J-Box-Grab	J-Box	09/12/2019 06:31	9/12/2019 10:00:00AM
1910681-07	RSB FT Overflow-Grab	RSB FT Overflow	09/12/2019 08:05	9/12/2019 10:00:00AM
1910681-08	999-Grab	999	09/11/2019 07:49	9/12/2019 10:00:00AM
1910681-09	002-Grab	002	09/11/2019 07:37	9/12/2019 10:00:00AM
1910681-10	CM1-Grab	CM1	09/12/2019 00:00	9/12/2019 10:00:00AM
1910681-11	CM2-Grab	CM2	09/12/2019 00:00	9/12/2019 10:00:00AM
1910681-12	CM6 Grab	CM6	09/12/2019 00:00	9/12/2019 10:00:00AM
1910681-13	HM2-Grab	HM2	09/12/2019 00:00	9/12/2019 10:00:00AM
1910681-14	HM3-Grab	HM3	09/12/2019 00:00	9/12/2019 10:00:00AM



Thursday, September 12, 2019 Date: Field Results Arcelor Mittal USA, Inc. Client: Work Order: 1910681 **Client Project:** Daily 1910681-02 **Client Sample ID:** 011-Grab Work Order/ID: 09/11/2019 05:55 **Sample Description:** 011 Sampled: Matrix: Aqueous Received: 09/12/2019 10:00 **Analyses** Result Units FLD CL TITR 0.00 mg/L 7.8 pH Units pН 001-Grab Work Order/ID: 1910681-04 **Client Sample ID:** 001 09/11/2019 06:15 **Sample Description:** Sampled: 09/12/2019 10:00 Matrix: Aqueous Received: Result Units **Analyses** FLD CL TITR 0.00 mg/L pH Units pΗ 7.8 **Client Sample ID:** J-Box-Grab Work Order/ID: 1910681-06 Sampled: **Sample Description:** J-Box 09/12/2019 06:31 09/12/2019 10:00 Matrix: Aqueous Received: **Analyses** Result Units 8.9 pH Units рΗ **Client Sample ID:** RSB FT Overflow-Grab Work Order/ID: 1910681-07 **Sample Description:** RSB FT Overflow Sampled: 09/12/2019 08:05 Matrix: Received: 09/12/2019 10:00 Aqueous Result **Analyses** Units 8.8 pH Units pН Client Sample ID: 999-Grab Work Order/ID: 1910681-08 **Sample Description:** 09/11/2019 07:49 999 Sampled: 09/12/2019 10:00 Matrix: Aqueous Received: **Analyses** Result Units 7.9 pH Units рΗ 002-Grab Client Sample ID: Work Order/ID: 1910681-09 Sample Description: 002 Sampled: 09/11/2019 07:37 Received: 09/12/2019 10:00 Matrix: Aqueous **Analyses** Result Units 8.1 рΗ pH Units



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 011-Composite
 Work Order/ID:
 1910681-01

 Sample Description:
 011
 Sampled:
 09/11/2019
 5:55

 Matrix:
 Aqueous
 Received:
 09/12/2019
 10:00

Matrix: Aqueous							Recei	ved:	09/12/2019 10:00
Analyses	Certs	ΑT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: EF	PA 200.7 Re	v 4.4			An	alyst: RPL
Total Recoverable Metals by ICP								Prep Date/	Time: 09/12/2019 10:30
Lead	eij	Α	ND	0.0033	0.0075	U	mg/L	1	09/12/2019 13:14
Zinc	eij	Α	0.018	0.0073	0.020		mg/L	1	09/12/2019 13:14
			Method: SI	M 4500-CN	C/E-1999			An	alyst: ABG
Total Cyanide								Prep Date/	Time: 09/12/2019 11:36
Cyanide, Total	eij	А	0.0062	0.0020	0.0050		mg/L	1	09/12/2019 13:50
			Method: SN	N-846 9014				An	alyst: ABG
Free Cyanide								Prep Date/	Time: 09/12/2019 10:48
Free Cyanide		Α	ND		0.0062		mg/L	1	09/12/2019 11:44
			Method: EF	PA 420.4 Re	v 1.0			An	alyst: ABG
Total Phenolics								Prep Date/	Time: 09/12/2019 11:10
Phenolics, Total Recoverable	eij	Α	ND	0.0060	0.010	U	mg/L	1	09/12/2019 13:50
			Method: SI	/I 2540 D-19	997			An	alyst: KMT
Total Suspended Solids								Prep Date/	Time: 09/12/2019 11:04
Total Suspended Solids	eij	Α	4.0	1.0	1.0		mg/L	1	09/12/2019 12:30



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 011-Composite
 Work Order/ID:
 19I0681-01RE1

 Sample Description:
 011
 Sampled:
 09/11/2019
 5:55

 Matrix:
 Aqueous
 Received:
 09/12/2019
 10:00

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: E		Analyst: ABG				
Nitrogen, Ammonia as N									Time: 09/12/2019 11:19
Nitrogen, Ammonia (As N)	ei	Α	0.20	0.054	0.10	mç	g/L	1	09/12/2019 13:47



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 011-Grab
 Work Order/ID:
 1910681-02

 Sample Description:
 011
 Sampled:
 09/11/2019
 5:55

 Matrix:
 Aqueous
 Received:
 09/12/2019
 10:00

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: E	Analyst: KMT					
Oil & Grease (HEM) by SPE								Prep Date/T	ime:09/12/2019 07:27
Oil & Grease (HEM)	eij	А	ND	1.4	5.0	U	mg/L	1	09/12/2019 14:32



09/12/2019 12:30

Analytical Results Date: Thursday, September 12, 2019

Client: Arcelor Mittal USA, Inc.

Client Project: Daily

Total Suspended Solids

 Client Sample ID:
 001-Composite
 Work Order/ID:
 1910681-03

 Sample Description:
 001
 Sampled:
 09/11/2019 6:15

 Matrix:
 Aqueous
 Received:
 09/12/2019 10:00

Matrix: Aqueous							Recei	ved:	09/12/2019 10:00		
Analyses	Certs	ΑT	Result	MDL	RL	Qual	Units	DF	Analyzed		
		Method: EPA 200.7 Rev 4.4							nalyst: RPL		
Total Recoverable Metals by ICP								Prep Date/	Time:09/12/2019 10:30		
Lead	eij	Α	ND	0.0033	0.0075	U	mg/L	1	09/12/2019 13:19		
Zinc	eij	Α	ND	0.0073	0.020	U	mg/L	1	09/12/2019 13:19		
			Method: SI	W 4500-CN	C/E-1999			Ar	nalyst: ABG		
Total Cyanide								Prep Date/	Time:09/12/2019 11:36		
Cyanide, Total	eij	Α	0.0038	0.0020	0.0050		mg/L	1	09/12/2019 13:51		
			Method: SI	N-846 9014				Ar	nalyst: ABG		
Free Cyanide								Prep Date/	Time:09/12/2019 10:48		
Free Cyanide		А	ND		0.0062		mg/L	1	09/12/2019 11:49		
			Method: EI	PA 420.4 Re	v 1.0			Ar	nalyst: ABG		
Total Phenolics								Prep Date/	Time:09/12/2019 11:10		
Phenolics, Total Recoverable	eij	А	ND	0.0060	0.010	U	mg/L	1	09/12/2019 13:52		
	Method: SM 2540 D-1997								Analyst: KMT		
Total Suspended Solids								Prep Date/	Time: 09/12/2019 11:04		

eij

A 3.6

1.0

1.0

mg/L



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 001-Composite
 Work Order/ID:
 19I0681-03RE1

 Sample Description:
 001
 Sampled:
 09/11/2019 6:15

 Matrix:
 Aqueous
 Received:
 09/12/2019 10:00

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method:		Analyst: ABG				
Nitrogen, Ammonia as N								Prep Date/Ti	me:09/12/2019 11:19
Nitrogen, Ammonia (As N)	ei	Α	0.27	0.054	0.10	mį	g/L	1	09/12/2019 13:49



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 001-Grab
 Work Order/ID:
 1910681-04

 Sample Description:
 001
 Sampled:
 09/11/2019 6:15

 Matrix:
 Aqueous
 Received:
 09/12/2019 10:00

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Analyst: KMT						
Oil & Grease (HEM) by SPE								Prep Date/	Time: 09/12/2019 07:27
Oil & Grease (HEM)	eij	А	ND	1.4	5.0	U	mg/L	1	09/12/2019 14:32



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 Mixed Liquor-Grab
 Work Order/ID:
 1910681-05

 Sample Description:
 Mixed Liquor
 Sampled:
 09/12/2019
 6:33

 Matrix:
 Aqueous
 Received:
 09/12/2019
 10:00

Analyses	Certs	AT	Result	MDL	RL	Qual Ui	nits DF	Analyzed		
		Method: SM 2540 F-1997 Analyst: DAT								
Settleable Solids							Prep Dat	e/Time:09/12/2019 10:22		
Settleable Solids	i	Α	97	1.0	1.0	ml/L	1	09/12/2019 10:22		
			Method: S	A	Analyst: KMT					
Total Suspended Solids							Prep Dat	e/Time:09/12/2019 11:04		
Total Suspended Solids	eij	Α	1900	1.0	1.0	mg/L	1	09/12/2019 12:30		



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 J-Box-Grab
 Work Order/ID:
 1910681-06

 Sample Description:
 J-Box
 Sampled:
 09/12/2019 6:31

 Matrix:
 Aqueous
 Received:
 09/12/2019 10:00

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method:	Analyst: KMT					
Total Suspended Solids								Prep Date/Ti	me:09/12/2019 11:04
Total Suspended Solids	eij	Α :	18	1.0	1.0	m	ng/L	1	09/12/2019 12:30



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 CM1-Grab
 Work Order/ID:
 1910681-10

 Sample Description:
 CM1
 Sampled:
 09/12/2019
 0:00

 Matrix:
 Aqueous
 Received:
 09/12/2019
 10:00

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method:	Analyst: KMT					
Total Suspended Solids								Prep Date/Ti	me:09/12/2019 11:04
Total Suspended Solids	eij	Α /	11	1.0	1.0	m	ng/L	1	09/12/2019 12:30



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 CM2-Grab
 Work Order/ID:
 1910681-11

 Sample Description:
 CM2
 Sampled:
 09/12/2019
 0:00

 Matrix:
 Aqueous
 Received:
 09/12/2019
 10:00

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method:	Analyst: KMT					
Total Suspended Solids								Prep Date/Tir	me: 09/12/2019 11:04
Total Suspended Solids	eij	A	12	1.0	1.0	n	ng/L	1	09/12/2019 12:30



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 CM6 Grab
 Work Order/ID:
 1910681-12

 Sample Description:
 CM6
 Sampled:
 09/12/2019
 0:00

 Matrix:
 Aqueous
 Received:
 09/12/2019
 10:00

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method:	Analyst: KMT					
Total Suspended Solids								Prep Date/Ti	me:09/12/2019 11:04
Total Suspended Solids	eij	Α	19	1.0	1.0	m	ng/L	1	09/12/2019 12:30



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 HM2-Grab
 Work Order/ID:
 1910681-13

 Sample Description:
 HM2
 Sampled:
 09/12/2019
 0:00

 Matrix:
 Aqueous
 Received:
 09/12/2019
 10:00

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method:	SM 2540 D-1	997			Anal	lyst: KMT
Total Suspended Solids								Prep Date/Ti	me:09/12/2019 11:04
Total Suspended Solids	eij	A 1	14	1.0	1.0	r	ng/L	1	09/12/2019 12:30



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 HM3-Grab
 Work Order/ID:
 1910681-14

 Sample Description:
 HM3
 Sampled:
 09/12/2019
 0:00

 Matrix:
 Aqueous
 Received:
 09/12/2019
 10:00

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method:	SM 2540 D-1	997			Anal	yst: KMT
Total Suspended Solids								Prep Date/Ti	me:09/12/2019 11:04
Total Suspended Solids	eij	A 4	12	1.0	1.0	n	ng/L	1	09/12/2019 12:30

ANALYTE TYPES: (AT)

A,B = Target Analyte
I = Internal Standard

M = Summation Analyte

o o

S = Surrogate

T = Tentatively Identified Compound (TIC, concentration estimated)



Partial 9/12/2019

QC SAMPLE IDENTIFICATIONS

BLK = Method Blank
DUP = Method Duplicate
BS = Method Blank Spike
MS = Matrix Spike
ICB = Initial Calibration Blank
CCB = Continuing Calibration Blank
CRL = Client Required Reporting Limit
PDS = Post Digestion Spike

ICSA = Interference Check Standard "A"
ICSAB = Interference Check Standard "AB"
BSD = Method Blank Spike Duplicate
MSD = Matrix Spike Duplicate
ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification
OPR = Ongoing Precision and Recovery Standard
SD = Serial Dilution

QCS = Quality Control Standard CERTIFICATIONS (Certs)

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

- d Illinois EPA drinking water, wastewater and solid waste analysis (#200064)
- i Kansas Dept Health & Env. NELAP (#E-10397)
- J Kentucky Wastewater Laboratory Certification Program (#108202)

FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

MDL: Minimum Detection Limit

RL: Reporting Limit

RPD: Relative Percent Difference

U: The analyte was analyzed for but was not detected above the reported quantitation limit. The quantitation limit has

been adjusted for any dilution or concentration of the sample.

Cooler Receipt Log

Cooler ID: Default Cooler

Metals sample preserved at lab

Comments

M (C)



Partial 9/12/2019

Cooler Inspection Checklist

Ice Present or not required?	Yes
Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes
Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes
Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes
Sample type identified on COC?	Yes
Correct type of Containers Received	Yes
Correct number of containers listed on COC?	Yes
Containers Intact?	Yes
COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes
Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes
Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes
Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes



Chain of Custody

ArcelorMittal Burns Harbor/Microbac Labs

Thursday

Lab Work No: 1970681

* Date Obtained

** Sample Date:

9-12-19

Location	Time	Sampler	Туре	Preserved	Cooled	Containers		1	Parameters	
			1,700	110001700		Туре	Qty	Vol. (ml)	raiameters	Comments
011 **	05.55	ريان	Comp	No ,	Yes	Glass	1	4000		01
	VO.33		Grab	No	No	Plastic	1	500	pН	02
001 **	DC.IN		Comp	No	Yes	Glass	1	4000		03
	16.15		Grab	No	No	Plastic	1	125	рН	04
Mixed Liquor *	06:33		Grab	No	No	Plastic	1	2000	TSS, Settling	05
DIW-131 *	NA		Grab	No	No	Plastic	1	125	Hq	
J-Box *	06:31		Grab	No	No	Plastic	1	1000	TSS, pH	06
RSB FT Overflow *	44.4		Grab	No	No	Plastic	1	125	рH	07
999 *	07:49		Grab	No	No	Plastic	1	500	На	08
002 **	07:37		Grab	No	No	Plastic	1	125	Hq	09
SWTP*	N	***	Grab	No	No	Plastic	75	1000	TSS	10-14

*** WPL is for previous sample date

**** Sample collected by Water Process personnel

NO CM3+HM1

5.2 -0.3 -0.1 4.9 oI

Relinquished by:

Received by:

Date:9-12-19

Date: 9/12/19

Time 08:10

Time: 0826

Env 4x Rev. 8 07/01/16 (TEK)

1910681 Carey Gadzala ArcelorMittal - Burns Harbor, IN Daily 09/12/2019



Microbac Laboratories - Chicagoland Division pH - METHOD 9045D Arcelor Mittal /Burns Harbor NPDES

Sample ID		pН	Analyst	Date/Time of Analysis
Buffer ID: Meter ID:	4: 185909	7: 188312	10: 191040	
Calibration	(P) (O) (O)		DAO	9/11/19 0830
ICV	4/00 10	7.00		
Slope		100.9		,
Lake 999		7.94	•	
Location 001		7.73		
Location 002		8.24		
Location 011		7.75		
WAL 1		8.90		
WAL 2	<u></u>		;	·
SWTP J-Box		8-66		
DIW 131				
RSB		9.90		
Dup- WAL		8.90		
CCV		7.01		
				·

Sample ID		pН	Analyst	Date/Time of Analysis
Buffer ID: Meter ID:	4: 185909	7: 188312	10: 191040	
Calibration	@1010		BAO	9/12/19 0820
ICV	4 / O / 10	6.99		
Slope		100.9		
Lake 999		7.89		
Location 001		7.84		·
Location 002		8.14		
Location 011		7. 79		
WAL 1				
WAL 2				
SWTP J-Box		8.86		
DIW 131				
RSB		8.75		
Dup- 999		7.91		
CCV		7.01		V
				·

Microbac Laboratories, Inc. - Chicagoland Division

Total Residual Chlorine - Amperometric Titration - SM Method 4500-CI E - 2000 for Arcelor Mittal - Burns Harbor

1 20 21 21 20 21 20 21 20 21 20 21 20 21 20 21 20 20	Titrant Start
Titrant Start Titrant Stop (mL) (·mL) (·mL) (·oco (·oc	Titrant Start
Itrant Start	Itrant Start
0.00 0.00	0.00
9 0.10 0.10 0.00 0.00 0.00 0.00 0.00 0.0	9 0. 10 0. 10 0. 0 0 0 0 0 0 0 0 0 0 0 0
9	9
9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P
9 0.00 0.00 0 0 0.00 0.00 0 0 0.00 0.00 0 0 0.00 0.00 0 KI Solution: KI Solution: Acetate buffer: PAO Titrant: PAO Titrant: (ml) (ml) (ml)	9 0.00 0.00 0 0 0.00 0.00 0 0 0.00 0.00 0 0 0.00 0.00 0 0 0.00 0.00 0 0 0.00 0.00 0 0 0.00 0.00 0 0 0.00 0.00 0 0 0.00 0.00 0 0 0.00 0.00 0 0 0.00 0.00 0 0 0.00 0.00 0 0 0.00 0.00 0 0 0.00 0.00 0 0 0.00 0.00 0 0 0.00 0.00 0 0 0.00 0.00 0 0 0.00 0.00 0 0 0.00 0.00 0 0 0.00 0 0 0
φ . φ . φ . φ . φ . φ . φ . φ . φ . φ .	0 0
O	O
9	STD ID / Lot # KI Solution: Acetate buffer: PAO Titrant Start Titrant Stop (ml)
STD ID / Lot # KI Solution: Acetate buffer: PAO Titrant: (pH Units) (ml) (ml)	p. Date KI Solution: Acetate buffer: PAO Titrant Stort (ml) (pH Units) (ml)
KI Solution: Acetate buffer: PAO Titrant Start Titrant Stop (ml)	Ki Solution: Acetate buffer: PAO Titrant Start Titrant Stop (ml) (m
p. Date Acetate buffer: PAO Titrant: (pH Units) (ml) (ml) (ml) (ml) (ml) (ml)	(pH Units) (ml) (ml) (ml) (ml) (ml) (ml) (ml) (ml
p. Date pAO Titrant: PAO Titrant Vol. (ml) (ml) (ml) (ml)	p. Date
pAO Titrant: Titrant Start Titrant Stop (ml) (pH Units) (ml) (ml) (ml)	(pH Units) (ml) (ml) (ml) (ml) (ml) (ml) (ml) (ml
(ml) (ml) (ml) (ml) (ml)	(pH Units) (ml) (ml) (ml) (ml) (ml) (ml) (ml) (ml
(pH Units) (ml) (ml) (ml)	(pH Units) (ml) (ml) (ml)

Burns Harbor Contractor timesheet

4	ArcelorMittal	309704		7	Percent job complete	Job notes							0.00					# 2		is job capital work?	Ves ves				-	byees, hours, and date listed on the and plant work location listed above.	Job title Supervision	Date 9 (12) 18 22 23 25 23	/Page 22 of 23 2013-08-BH-ContractorTimeSheet
		Form number	Requisition number	079489		Billable equipment/subcontractors/material	Description	Hours/amt total	Description	Hours/amt total	Description	Hours/amt total		Description	Hours/amt total	To contract to the contract to	Description	Hours/amt total	Description		חסוו אל פווור וסיפו	n of the abbreviations.	TEC	<u> </u>		I the undersigned have verified that contractor employees, hours, and date listed on the timesheet are accurate, complete, valid for the date and plant work location listed above.	ArcelorMittal authorization signature	The last	Page of
		Contractor ref #/job #				Billable Total equipm	QI	Oty	Q	Oth	Q	Oty		Ω	Qty	<u>c</u>	3	Otty	<u>Q</u>		(F)	le of form for an explanatio	H	S	Section 6	I the undersigned timesheet are acc	ArcelorMittal auth	Printed	3
			ber		1es	TO DT										J)						breviation. See reverse sid	JAN	LIC	Section 5	Work authorization permit #		201329	
		Contractor company name			Description of work	aj e	TEC									X1.			Total hours this sheet	Previous hours	Total hours to date	Enter the total hours worked by each craft in the box to the right of each abbreviation. See reverse side of form for an explanation of the abbreviations.	GLZ J	W M		I the undersigned attest that the hours recorded on the timesheet were actually worked by the contractor employee at the plant work location on the date listed above.	Sewier Tah	2/19	Gold - AM Authorizer
	sheet	Contrac		as O	Descrip	First name	Brian			- 3,6,203,0				2	100 100							worked by each craft in th	교	ZZ		I the undersigned attest that the hours recorded on the timesheet were actu the contractor employee at the plant work location on the date listed above.	Job title	Date	Canary - Contractor Pink - AM Receiver Gold
Burns Harbor	Contractor timesheet	Shift	- Π Φ	Warren How	: ## ## ## ## ## ## ## ## ## ## ## ## ##	Last name	0740													Shift start time	Shift end time		-	38		igned attest that the hours tor employee at the plant	Contractor authorization signature	orto	2
Burns	Contr	Section 1 Date	ArcelorMitta	W	Department	Section 2 Badge no.	23.04.91													ES :	<u>ה</u>	Section 3	ABW	BM	Section 4	I the unders the contract	Contractor &	Printed name	White - Contractor

307329 Daily work authorization form for all visiting workers

For each job, and before starting work at the job site, a contractor representative must meet face to face with the ArcelorMittal representative responsible for the work and discuss the work to be performed and any specific safety requirements.

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Section 1

The named contractor or work crew is cleared to perform the job described herein:

ArcelorMittal representative phone number ArcelorMittal representative department ArcelorMittal representative しんん バー

Samples

EAVICO

Company contact/phone no Cary

Location and project/job description_

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Microbac

Company name_

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			Yes	A/A	No								Yes	N/A	S N
1) Are emergency evacuation areas identified and known?			N.		0	10) Cou	mos pir	10) Could someone be caught in or between anything?	ught in	or betwee	n anythi	ing?	0		1
2) Is there a current and valid isolation (LOTO) procedure?	200 DAY			1		11) Cou	mos pir	11) Could someone get hurt as a result of a fall from height?	urt as a	esult of a	fall fror	m height?			
3) Will everyone apply a personal safety lock?				1	•	12) Car	Somet	12) Can something fall and/or strike me or someone else?	nd/or str	ke me or	someon	ne else?	0		4
4) Are there adjacent work crews exposed (including ArcelorWittal employees)?	Vittal emplo	yees)?	0		*	13) Is e	veryone	13) Is everyone properly trained for this job?	trained 1	or this jok	<i>د</i> .				0
5) Are there potential hazards or high risk job steps?		200			P	14) Are	flags a	14) Are flags and derails in place if needed?	n place	f needed?	1/2		4		0
6) Do we have the correct tools for the job?					0	15) Car	il we slip	or trip on	anythin	g (includir	g travel	15) Can we slip or trip on anything (including travel to and from the job)?	d	Ü	
7) Is additional PPE required?			0			16) Hav	re all af	16) Have all affected people been notified?	ple beer	notified?		1200年20日1日本	Ď		
8) Is there a potential for exposure (chemical, radiation, laser, temperature)?	, temperatu	re)?	•			17) Car	we str	17) Can we strain or overexert ourselves?	exert or	rselves?					
9) Is someone working on or near energized electrical equipment (motor controrooms, overhead power lines, etc.)?	nent (motor	control	•		/	18) Has equipm	18) Has equipme equipment, etc.)	nent been c.)	inspecte	d prior to	use? (to	18) Has equipment been inspected prior to use? (tools, PPE, mobile equipment, etc.)	(in		•
Other Hazards and Considerations for Discussion			0.12						٥			Permits	E 5		
Yes N/A No ,	λ	Yes N/A	N			Yes N	N/A No		Ϋ́	Yes N/A	No	A STANDARD STANDARD	10 02 10	Yes N	N/A No
19) Pneumatic air tools & lines 🌑 🚞 🚅 24) Housekeeping) guic		2	29) Scaffold work	old work			r 33) Asbestos		j	6	37) Confined space	i i		Y
20) Vehicle / mob equip traffic 🔎 🧀 🍱 25) Production hazards	hazards (3	30) Explosives	sives	•		34) Noise	0			38) Energized electrical work	work		
21) Gas hazards-CO, CO2, etc. 🛑 🥅 🔁 26) Material handling	andling		3	31) Barricades	ades			(35) Lasers	S		-	39) Excavation / drilling			
22) Hot process, metal, temp. 🌑 🗀 🐗 [27) Crane and rigging	rigging		3	32) Radiation	tion			36) Sewers	ers			40) Hot work			
23) Pressurized / steam pipe 🛑 🚞 📲 28) Overhead work	work							4				41) Other			
			Hie	rarchy of (Controls 1	. Eliminati	on 2. Suk	Herarchy of Controls 1. Elimination 2. Substitution 3. Engineering 4. Administrative	Engineerin	g 4. Admini		5. PPE			
Visiting worker name (print) Badge # Hazard # 8 + He	# #		Controls	S		Respor	Responsible Person		Hazard #			Controls	Resp	Responsible Person	Perso
						•			8				4		
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ArcelorMittal representative 2

ArcelorMittal representative named below.

Contractor or crew leader

(Ensure form is fully completed prior to signing) Original to contractor, (1) copy to AreclorMittal representative

My crew and I are familiar with the safety hazards/considerations for this job. We are prepared to perform the work in a safe "yorkmanship" like manner. I have reviewed these considerations with the

Controlled by Maintenance Administration Dept. Arcelor的程度是名的分子名 Replacement rep/phone_

2016-04-BH-DailyWorkAuthorization