

EPC-TL/WAPP-NC/WB#01

Addendum n°1 to the Request For Bidding

WAPP
NIGERIA

RESTRICTED

December 15, 2020

TECHNICAL NOTE

DSN-DAO-GRO-1ATL-ELE-STP-0002

TRACTEBEL ENGINEERING S.A.

Head Office (Gennevilliers)
Le Clever - 5, rue du 19 mars 1962 - 92622 Gennevilliers CEDEX - FRANCE
tel. +33 1 41 85 03 69 - fax. +33 1 41 85 03 74
engineering-fr@tractebel.engie.com
tractebel-engie.fr

TECHNICAL NOTE



Our ref. : **DSN-DAO-GRO-1ATL-ELE-STP-0002**
Entity : E.M.R.
Imputation : P.013970

RESTRICTED

Client : WAPP
Project : North Core Project
Country/State: Nigeria

Title : EPC-TL/WAPP-NC/WB#01
Subtitle : Addendum n°1 to the Request For Bidding
Author(s) : H. de PIMODAN, R. GAUTHIER (HDP/RGA),
Date : December 15, 2020

Summary : -
Comments : -
Keywords : -
Nb pages : 9 (excl. appendices)

02	2020-12-15	Annex Modification	Final	H. de PIMODAN	P. TRUONG	O. BISCH
01	2020-12-11	First emission	Final	H. de PIMODAN R. GAUTHIER	P. TRUONG	O. BISCH

REV.	YYYY-MM-DD	SUBJECT OF THE REVISION	STAT.	WRITTEN	VERIFIED	APPROVED
------	------------	-------------------------	-------	---------	----------	----------

TRACTEBEL ENGINEERING S.A. - Registered Office: 5, rue du 19 mars 1962 - 92622 Gennevilliers CEDEX - FRANCE
with a capital of 8 921 250 Euros - R.C.S. Nanterre B 309 103 877 - SIREN 309 103 877 - VAT: FR 82 309 103 877 - APE 7112B

NORTH CORE PROJECT
EPC-TL/WAPP-NC/WB#01

TABLE OF CONTENTS

- 1. PURPOSE OF THE ADDENDUM N°15
- 2. AMENDED CONTRACT PERFORMANCE SECURITY FORM.....5
- 3. VOLUME 2 – PARTICULAR TECHNICAL SPECIFICATIONS7
 - 3.1. **Technical Particular Specifications** 7
 - 3.1.1. Amendment to Appendix A – Angle coordinates7
 - 3.2. **Price schedule**..... 8
 - 3.3. **Cartography** 8

This document is the property of Tractebel Engineering S.A. Any duplication or transmission to third parties is forbidden without prior written approval.

1. PURPOSE OF THE ADDENDUM N°1

The purpose of the Addendum N°1 is as following:

- 1) Deadline for Bid submission and opening date are postponed to **January 29, 2021**:
 - A. **The deadline for bid submission is:**
 - Date: **29/01/ 2021**
 - Time: **11h00 AM**, Abuja, Nigeria Time (GMT+1)
 - B. **The Bid Opening is:**
 - Date: **29/01/ 2021**
 - Time: **11h30 AM**, Abuja, Nigeria Time (GMT+1)
- 2) To clarify that Contract Performance Security is covering also Environmental and social obligations, for an overall performance security mentioned as 10%. An adjusted Contract Performance Security form is provided in point 2, here after.
- 3) The number of 4x4 Pick-Up vehicles to be supplied is reduced to 2 (originally planned 4 units). See STG (General Technical Requirements) item: item 27.
- 4) To update all the documents concerned by the route change of the 330-kV overhead line between Birnin Kebbi substation and Niger/Nigeria Border.

2. AMENDED CONTRACT PERFORMANCE SECURITY FORM

<p>Performance Security Form</p> <p><i>(including Environmental and Social (ES) Performance)</i></p> <p>Bank Guarantee ¹</p> <p>[Guarantor letterhead or SWIFT identifier code]</p> <p>Beneficiary: [insert name and Address of Employer]</p> <p>Date: _ [Insert date of issue]</p> <p>PERFORMANCE GUARANTEE No.: ____ [Insert guarantee reference number]</p> <p>Guarantor: [Insert name and address of place of issue, unless indicated in the letterhead]</p> <p>We have been informed that _____ (hereinafter called “the Applicant”) has entered into Contract No. _____ dated _____ with the Beneficiary, for the execution of _____ (hereinafter called “the Contract”).</p>
--

Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.

At the request of the Applicant, we as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of _____ (____) ², such sum being payable in the types and proportions of currencies in which the Contract Price is payable, upon receipt by us of the Beneficiary's complying demand supported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating that the Applicant is in breach of its obligation(s) under the Contract **including Environmental and/or Social (ES) obligation(s)**, without the Beneficiary needing to prove or to show grounds for your demand or the sum specified therein.

This guarantee shall be reduced by half upon our receipt of:

(a) a copy of the Operational Acceptance Certificate; or

(b) a registered letter from the Applicant (i) attaching a copy of its notice requesting issuance of the Operational Acceptance Certificate and (ii) stating that the Project Manager has failed to issue such Certificate within the time required or provide in writing justifiable reasons why such Certificate has not been issued, so that Operational Acceptance is deemed to have occurred.

This guarantee shall expire no later than the earlier of ³ :

(a) twelve months after our receipt of either (a) or (b) above; or

(b) eighteen months after our receipt of:

(i) a copy of the Completion Certificate; or

(ii) a registered letter from the Applicant, attaching a copy of the notice to the Project Manager that the Facilities are ready for commissioning, and stating that fourteen days have elapsed from receipt of such notice (or seven days have elapsed if the notice was a repeated notice) and the Project Manager has failed to issue a Completion Certificate or inform the Applicant in writing of any defects or deficiencies; or

(iii) a registered letter from the Applicant stating that no Completion Certificate has been issued but the Employer is making use of the Facilities; or

(c) the ____ day of _____, 2 ____ ⁴.

Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758, except that the supporting statement under Article 15(a) is hereby excluded.

[signature(s)]

The Employer should insert either the Bank Guarantee (4.1) or the Conditional Guarantee (4.2).

The Guarantor shall insert an amount representing the percentage of the Contract Price specified in the Contract and denominated either in the currency(ies) of the Contract or a freely convertible currency acceptable to the Employer.

This text shall be revised as and where necessary to take into account (i) partial acceptance of the Facilities in accordance with Sub-Clause 25.4 of the GCC; and (ii) extension of the performance security when the

Contractor is liable for an extended warranty obligation pursuant to Sub-Clause 27.10 of the GCC (although in this latter case the *Employer* might want to consider an extended warranty security in lieu of the extension of the performance security).

- 1 Insert the date twenty-eight days after the expected expiration date of the Defect Liability Period. The Employer should note that in the event of an extension of the time for completion of the Contract, the Employer would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee. In preparing this guarantee, the Employer might consider adding the following text to the form, at the end of the penultimate paragraph: “The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [six months][one year], in response to the Employer’s written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee.”

3. VOLUME 2 – PARTICULAR TECHNICAL SPECIFICATIONS

3.1. Technical Particular Specifications

3.1.1. Amendment to Appendix A – Angle coordinates

The following table supersedes the existing table:

Angle	X UTM	Y UTM	Length [m]	DEVIATION ANGLE DEGREE + :D / - :G
1A	629961,320	1375012,640		
			121,72	
1	630082,510	1375023,980		81,14
			3 067,91	
9	630835,580	1372049,930		36,46
			436,40	
10	630670,350	1371646,020		64,21
			3 618,29	
19	627058,960	1371422,590		63,31
			6 744,76	
35	623168,070	1376931,930		-33,50
			9 004,61	
56	614776,760	1380198,260		-6,25
			16 274,45	

Angle	X UTM	Y UTM	Length [m]	DEVIATION ANGLE DEGREE +:D / -:G
105A	599058,040	1384414,850		-1,21
			5 217,08	
105	593991,590	1385659,460		-5,06
			5 783,30	
119	588275,530	1386538,760		19,03
			2 658,90	
126	585922,960	1387777,780		-10,13
			4 607,42	
137	581532,340	1389174,470		-1,81
			3 755,83	
146	577919,080	1390199,450		-83,26

3.2. Price schedule

- Change from DSN-DAO-GRO-1ATL-ELE-BDP-0001.01.
To DSN-DAO-GRO-1ATL-ELE-BDP-0001.03., available in appendix.

3.3. Cartography

- Change from DSN-DAO-GRO-__TL-TOP-CAR-0001.01
To DSN-DAO-GRO-__TL-TOP-CAR-0001.03, available in appendix.
- Change from DSN-DAO-GRO-1ATL-TOP-CAR-0002.01
To DSN-DAO-GRO-1ATL-TOP-CAR-0002.02, available in appendix.

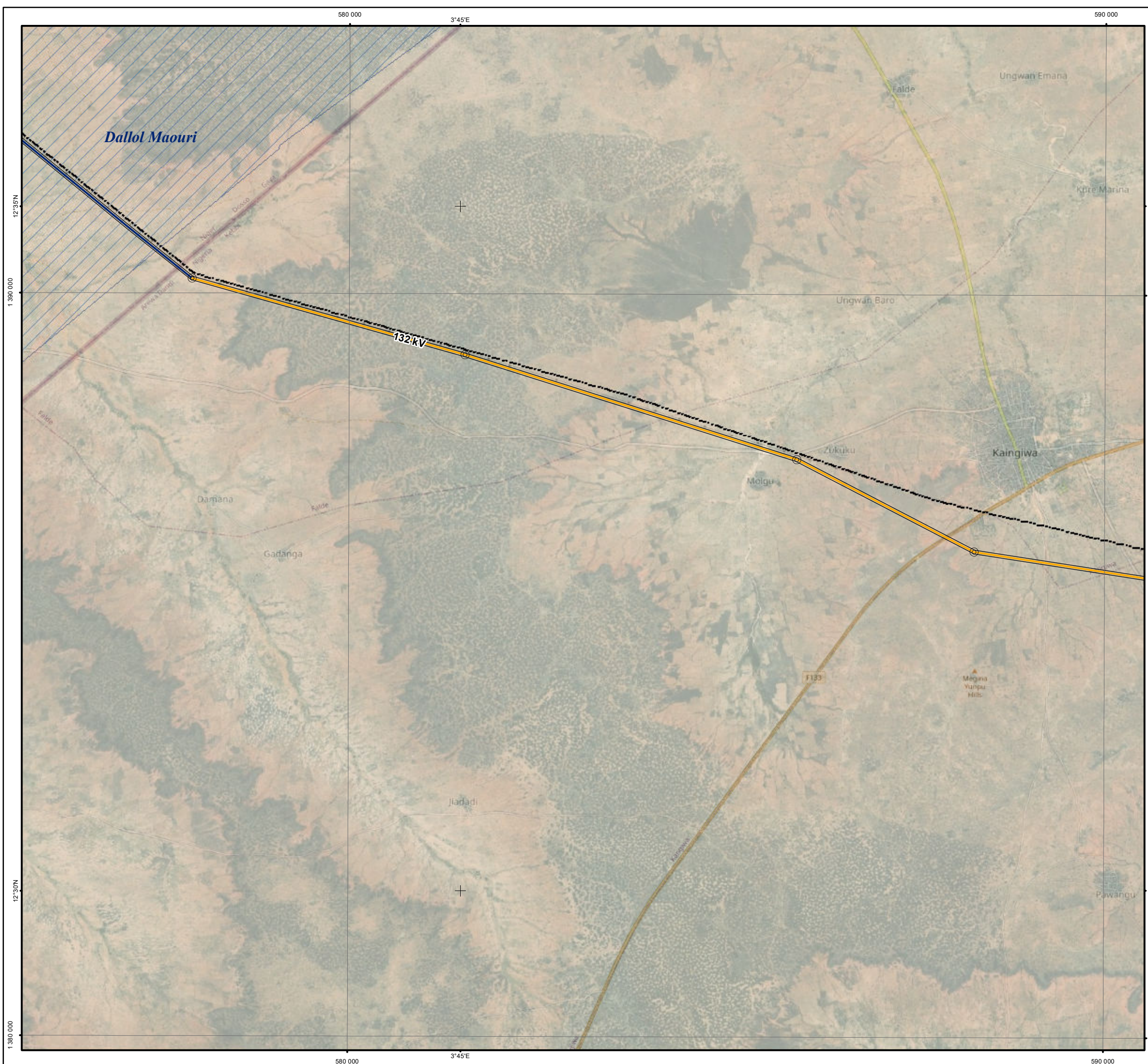
At the helm of the Energy Transition, Tractebel provides a full range of engineering and consulting services throughout the life cycle of its clients' projects, including design and project management. As one of the world's largest engineering consultancy companies and with more than 150 years of experience, it's our mission to actively shape the world of tomorrow. With about 5,000 experts and offices in 33 countries, we are able to offer our customers multidisciplinary solutions in energy, water and urban.

TRACTEBEL ENGINEERING S.A.

HEAD OFFICE
5, rue du 19 mars 1962
92622 – Gennevilliers CEDEX – France
tractebel.engie.fr

Patrick TRUONG
Patrick.truong@tractebel.engie.com





Légende

Tracé de l'interconnexion Dorsale Nord 225 kV
 Lot 5 : Ouaga Est - Ouaga Sud Est - PA5

Tracé de l'interconnexion Dorsale Nord 330 kV
 Lot 4B : Ouaga – Fada
 Lot 4A : Fada – Frontière Niger Burkina
 Lot 3 : Frontiere Niger Burkina - Gorou Banda
 Lot 2 : Gorou Banda – Zabouri
 Lot 1C Frontière Niger/Bénin - Malanville
 Lot 1B : Zabouri – Frontière Niger /Nigeria et Niger/Bénin
 Lot 1A : Frontière Niger /Nigeria – Birnin Kébbi

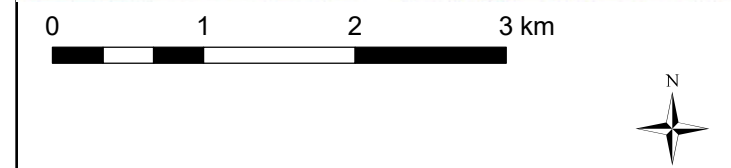
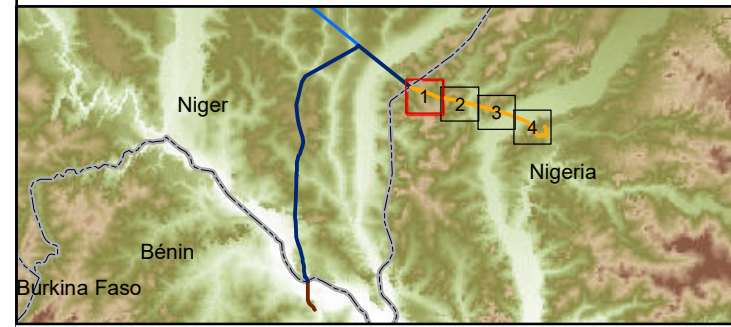
▲ Postes

Lignes existantes

Site Ramsar
 Réserve forestière
 Forêt Classée
 Réserve de Faune (Totale et partielle)

Zone importante pour la conservation des oiseaux

Sources :
 - Zones environnementales : WDPA 2020
 - Réseaux existants : ECOWAS 2019



Rev.	DATE	MODIFICATIONS	STATUT	DESSINE	CONTROLE	APPROUVE
A	12/2020	Modification 1A		CME	HDP	PTR
A	07/2020	Modification 1A		CME	HDP	PTR
A	01/2020	CREATION		CME	GNR	PTR

Client **West African Power Pool**
Système d'Echanges d'Énergie
Électrique Ouest Africain

Projet
INTERCONNEXION DORSALE NORD 330 kV
NIGERIA – NIGER – BENIN - BURKINA FASO

Sujet
Documents d'Appel d'Offres
Tracé de la ligne Lot 1A

Référence Externe: Niveau de confidentialité:
 Fichier informatique mxd: Echelle: NbFolio: Format:
 WAPP_L1A_TL_001_A | 1:50 000 | 1/4 | A3
 Imputation: Découpe technique:
 P.013970.0001 | ELECT. | EMR
 Indicateur Projet: Type: Numéro: Rév.:
 WAPP-L1A | LT | 001 | A

TRACTEBEL ENGINEERING S.A.
 CLEVER - 5, rue du 19 mars 1962
 92622 Gennevilliers CEDEX - FRANCE

Ce document reste la propriété de Tractebel Engineering. Toute reproduction ou communication à des tiers en est interdite sans son autorisation préalable.



Légende

Tracé de l'interconnexion Dorsale Nord 225 kV
 Lot 5 : Ouaga Est - Ouaga Sud Est - PA5

Tracé de l'interconnexion Dorsale Nord 330 kV
 Lot 4B : Ouaga – Fada
 Lot 4A : Fada – Frontière Niger Burkina
 Lot 3 : Frontiere Niger Burkina - Gorou Banda
 Lot 2 : Gorou Banda – Zabouri
 Lot 1C Frontière Niger/Bénin - Malanville
 Lot 1B : Zabouri – Frontière Niger /Nigeria et Niger/Bénin
 Lot 1A : Frontière Niger /Nigeria – Birnin Kébbi

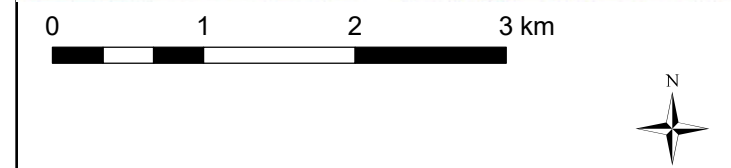
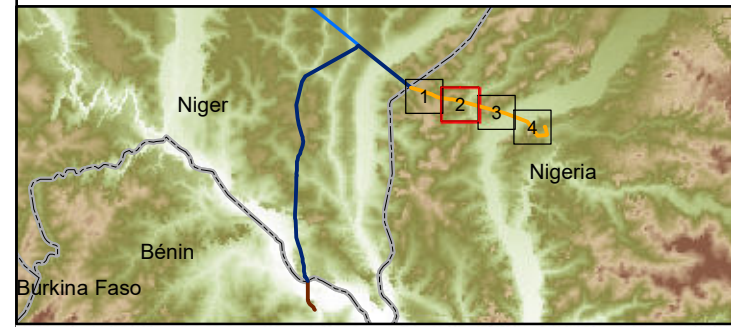
▲ Postes

Lignes existantes

Site Ramsar
 Réserve forestière
 Forêt Classée
 Réserve de Faune (Totale et partielle)

Zone importante pour la conservation des oiseaux

Sources :
 - Zones environnementales : WDPA 2020
 - Réseaux existants : ECOWAS 2019



Rev.	DATE	MODIFICATIONS	STATUT	DESSINE	CONTROLE	APPROUVE
A	12/2020	Modification 1A		CME	HDP	PTR
A	07/2020	Modification 1A		CME	HDP	PTR
A	01/2020	CREATION		CME	GNR	PTR

Client **West African Power Pool**
Système d'Echanges d'Énergie
Électrique Ouest Africain

Projet
INTERCONNEXION DORSALE NORD 330 kV
NIGERIA – NIGER – BENIN - BURKINA FASO

Sujet **Documents d'Appel d'Offres**
Tracé de la ligne Lot 1A

TRACTEBEL

TRACTEBEL ENGINEERING S.A.
 CLEVER - 5, rue du 19 mars 1962
 92022 Gennevilliers CEDEX - FRANCE

Référence Externe Niveau de confidentialité

Fichier informatique mxd Echelle NbFolio Format

WAPP_L1A_TL_001_A 1:50 000 2/4 A3

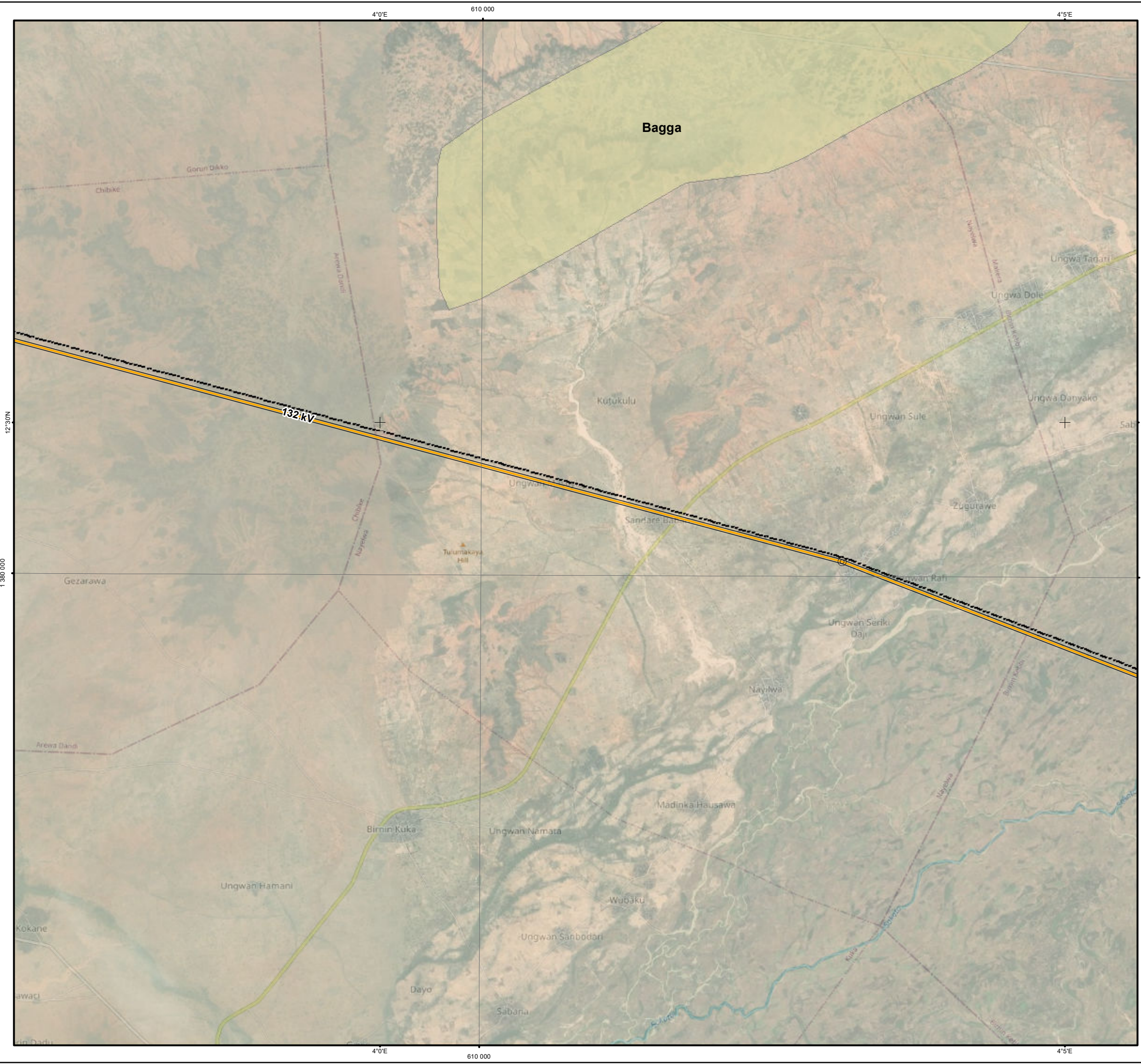
Imputation Découpe technique

P.013970.0001 ELECT. EMR

Indicateur Projet Type Numéro Rév.

WAPP-L1A LT 001 A

Ce document reste la propriété de Tractebel Engineering. Toute reproduction ou communication à des tiers en est interdite sans son autorisation préalable.



Légende

Tracé de l'interconnexion Dorsale Nord 225 kV
 Lot 5 : Ouaga Est - Ouaga Sud Est - PA5

Tracé de l'interconnexion Dorsale Nord 330 kV
 Lot 4B : Ouaga – Fada
 Lot 4A : Fada – Frontière Niger Burkina
 Lot 3 : Frontière Niger Burkina - Gorou Banda
 Lot 2 : Gorou Banda – Zabouri
 Lot 1C Frontière Niger/Bénin - Malanville
 Lot 1B : Zabouri – Frontière Niger /Nigeria et Niger/Bénin
 Lot 1A : Frontière Niger /Nigeria – Birnin Kébbi

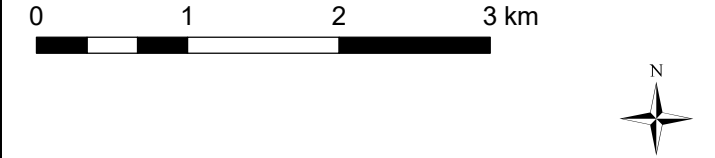
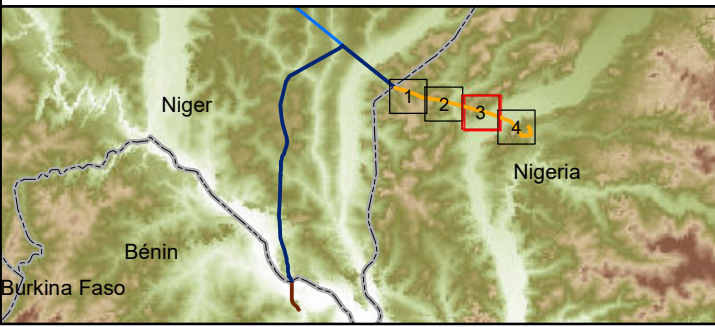
▲ Postes

Lignes existantes

Site Ramsar
 Réserve forestière
 Forêt Classée
 Réserve de Faune (Totale et partielle)

Zone importante pour la conservation des oiseaux

Sources :
 - Zones environnementales : WDPA 2020
 - Réseaux existants : ECOWAS 2019



Rev.	DATE	MODIFICATIONS	STATUT	DESSINE	CONTROLE	APPROUVE
A	12/2020	Modification 1A		CME	HDP	PTR
A	07/2020	Modification 1A		CME	HDP	PTR
A	01/2020	CREATION		CME	GNR	PTR

Client
West African Power Pool
Système d'Echanges d'Energie Electrique Ouest Africain

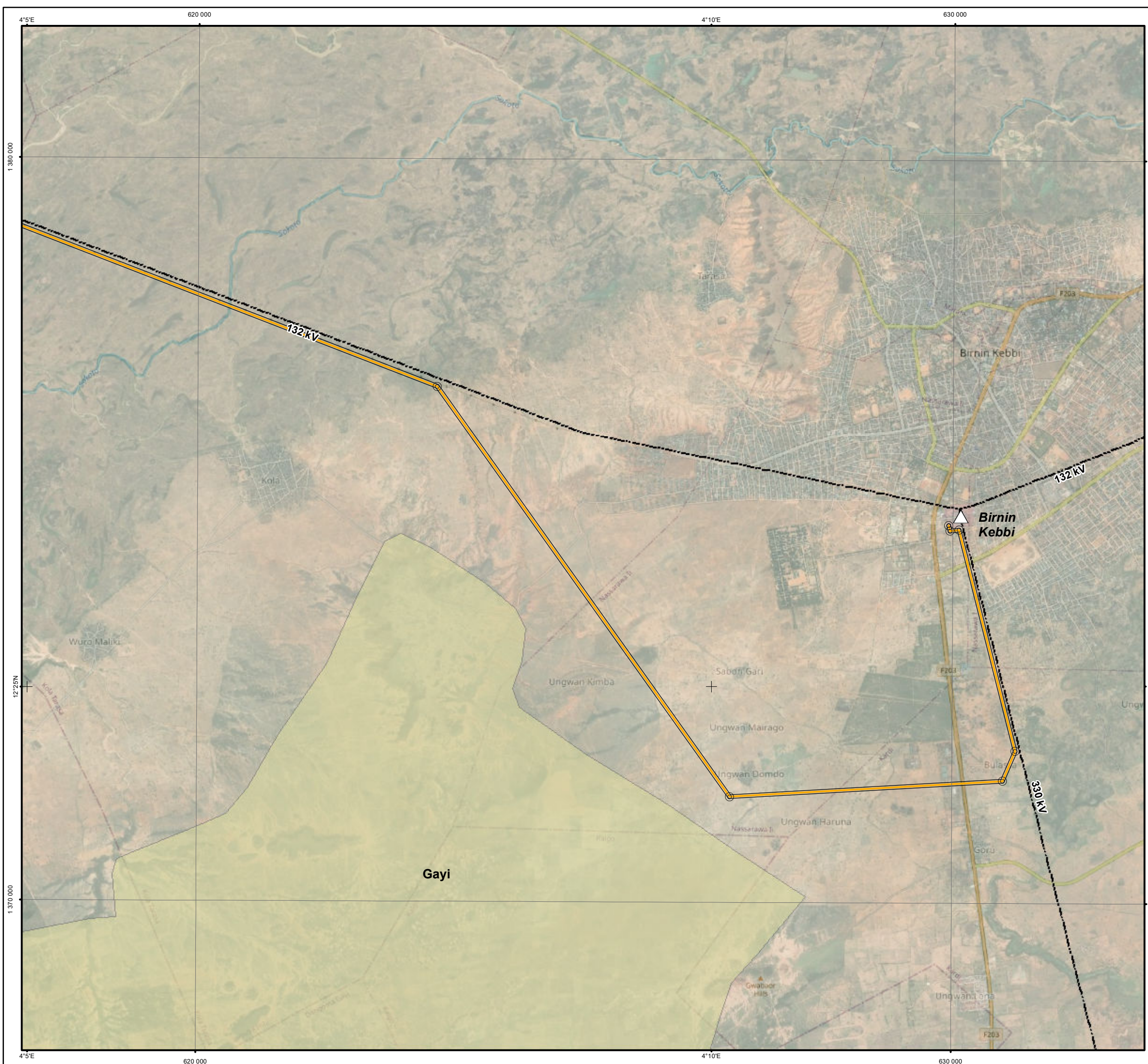
Projet

INTERCONNEXION DORSALE NORD 330 kV
NIGERIA – NIGER – BENIN - BURKINA FASO

Sujet
Documents d'Appel d'Offres
Tracé de la ligne Lot 1A

TRACTEBEL ENGINEERING S.A.
 CLEVER - 5, rue du 19 mars 1962
 92022 Gennevilliers CEDEX - FRANCE

Référence Externe		Niveau de confidentialité	
Fichier informatique mxd	Echelle	NbFolio	Format
WAPP_L1A_TL_001_A	1:50 000	3/4	A3
Imputation	Découpe technique		
P.013970.0001	ELECT.	EMR	
Indicatif Projet	Type	Numéro	Rév.
WAPP-L1A	LT	001	A



Légende

Tracé de l'interconnexion Dorsale Nord 225 kV
 Lot 5 : Ouaga Est - Ouaga Sud Est - PA5

Tracé de l'interconnexion Dorsale Nord 330 kV
 Lot 4B : Ouaga – Fada
 Lot 4A : Fada – Frontière Niger Burkina
 Lot 3 : Frontiere Niger Burkina - Gorou Banda
 Lot 2 : Gorou Banda – Zabouri
 Lot 1C Frontière Niger/Bénin - Malanville
 Lot 1B : Zabouri – Frontière Niger /Nigeria et Niger/Bénin
 Lot 1A : Frontière Niger /Nigeria – Birnin Kébbi

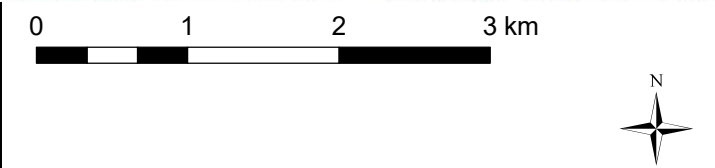
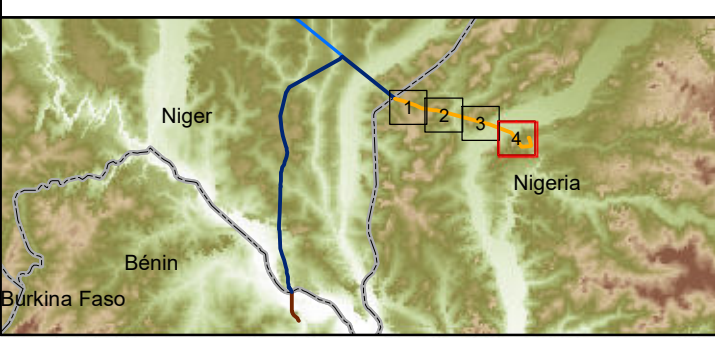
▲ Postes

Lignes existantes
 - - - - -

Site Ramsar
 Réserve forestière
 Forêt Classée
 Réserve de Faune (Totale et partielle)

Zone importante pour la conservation des oiseaux

Sources :
 - Zones environnementales : WDPA 2020
 - Réseaux existants : ECOWAS 2019



Rev.	DATE	MODIFICATIONS	STATUT	DESSINE	CONTROLE	APPROUVE
A	12/2020	Modification 1A		CME	HDP	PTR
A	07/2020	Modification 1A		CME	HDP	PTR
A	01/2020	CREATION		CME	GNR	PTR

Client
West African Power Pool
Système d'Echanges d'Énergie
Électrique Ouest Africain

Projet

INTERCONNEXION DORSALE NORD 330 kV
NIGERIA – NIGER – BENIN - BURKINA FASO

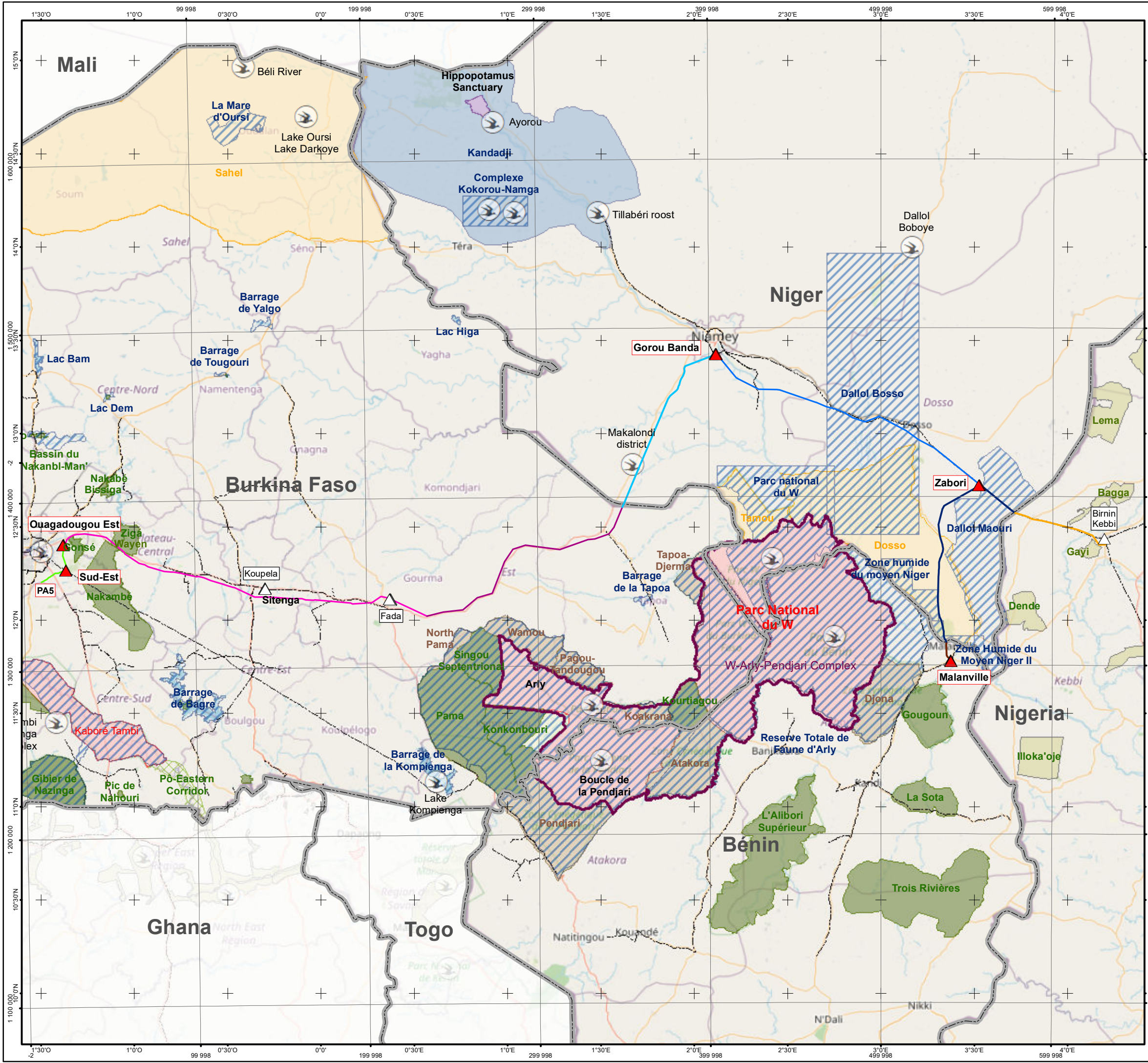
Sujet
Documents d'Appel d'Offres
Tracé de la ligne Lot 1A

TRACTEBEL ENGIE

TRACTEBEL ENGINEERING S.A.
 CLEVER - 5, rue du 19 mars 1962
 92022 Gennevilliers CEDEX - FRANCE

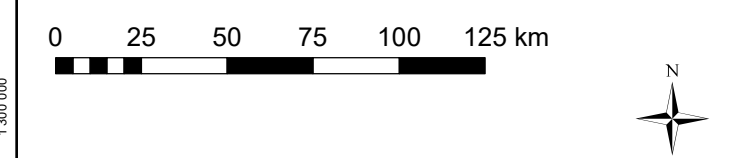
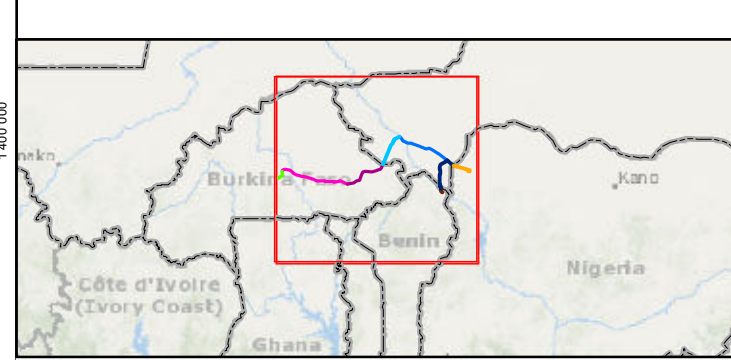
Référence Externe	Niveau de confidentialité		
Fichier informatique mxd	Echelle	NbFolio	Format
WAPP_L1A_TL_001_A	1:50 000	4/4	A3
Imputation	Découpe technique		
P.013970.0001	ELECT.	EMR	
Indicatif Projet	Type	Numéro	Rév.
WAPP-L1A	LT	001	A

Ce document reste la propriété de Tractebel Engineering. Toute reproduction ou communication à des tiers en est interdite sans son autorisation préalable.



- Tracé de l'interconnexion Dorsale Nord 225 kV
 Lot 5 : Ouaga Est - Ouaga Sud Est - PA5
- Tracé de l'interconnexion Dorsale Nord 330 kV
 Lot 4B : Ouaga Est – Fada
 Lot 4A : Fada – Frontière Niger Burkina
 Lot 3 : Frontière Niger Burkina - Gorou Banda
 Lot 2 : Gorou Banda – Zabori
 Lot 1C Frontière Niger/Bénin - Malanville
 Lot 1B : Zabori – Frontière Niger /Nigeria et Niger/Bénin
 Lot 1A : Frontière Niger /Nigeria – Birnin Kébbi
- ▲ Postes
 △ Autres postes
 --- Lignes existantes
 Zone importante pour la conservation des oiseaux
- Site du patrimoine mondial
 ■ Parc National
 ■ Réserve forestière
 ■ Forêt Classée
 ■ Réserve de chasse
 ■ Réserve de Faune (Totale et partielle)
 ■ Réserve Intégrale
 ■ Réserve Naturelle
 ■ Corridor Ecologique
 ■ Site Ramsar

Sources :
 - Zones environnementales : WDPA 2020
 - Réseaux existants : ECOWAS 2019



Rev.	DATE	MODIFICATIONS	STATUT	DESSINE	CONTROLE	APPROUVE
A	12/2020	Modification L4A -4B/L1A-1B/L2		CME	HDP	PTR
A	07/2020	Modification L4A /3 / 1A/ 1B		CME	HDP	PTR
A	01/2020	CREATION		CME	GNR	PTR

West African Power Pool
Système d'Echanges d'Énergie
Électrique Ouest Africain

INTERCONNEXION DORSALE NORD 330 kV
NIGERIA – NIGER – BENIN - BURKINA FASO

Documents d'Appel d'Offres
Plan général

TRACTEBEL
 ENGIE

TRACTEBEL ENGINEERING S.A.
 CLEVER - 8, rue du 19 mars 1962
 92622 Gennevilliers CEDEX - FRANCE

Référence Externe		Niveau de confidentialité	
Fichier informatique mxd	Echelle	NbFolio	Format
WAPP_GE_TL_001_A	1:2 200 000	1/1	A3
Imputation	Découpe technique	Emetteur	
P.013970.0001	ELECT.	EMR	
Indicatif Projet	Type	Numéro	Rév.
WAPP-GE	LT	001	A

Ce document reste la propriété de Tractebel Engineering. Toute reproduction ou communication à des tiers en est interdite sans son autorisation préalable.