

Emissions Unit Programme Registry Attestation

(Version 3, January 2023)

PART A. Applicability and Instructions

1. Relevance and definitions:

1.1. These terms are relevant to emissions unit programmes and their designated registries:

1.1.1. **CORSIA Eligible Emissions Unit Programme:** emissions unit programme approved by the ICAO Council as eligible to supply emissions units under the CORSIA.

1.1.2. **CORSIA Eligible Emissions Unit Programme-designated registry:** registry designated by a CORSIA Eligible Emissions Unit Programme to provide its registry services and approved by the ICAO Council as reflected in the programme's listing contained in the ICAO Document titled "*CORSIA Eligible Emissions Units*".

1.1.3. **Material change:** any update to the procedures of an emissions unit programme or its designated registry that would alter the functions that are addressed in the Emissions Unit Criteria (EUC), related guidelines, or the contents of this attestation. This includes changes that would alter responses to questions in the application form that the programme has submitted to the ICAO Secretariat or contradict the confirmation of the registry's adherence to the requirements contained in this attestation.

1.1.4. **Cancel:** the permanent removal and single use of a CORSIA Eligible Emissions Unit within a CORSIA Eligible Emissions Unit Programme designated registry such that the same emissions unit may not be used more than once. This is sometimes also referred to as "retirement", "cancelled", "cancelling" or "cancellation".

1.1.5. **Business day:** defined by the CORSIA Eligible Emissions Unit Programme registry when responding to formal instruction from a duly authorized representative of the owner of an account capable of holding and cancelling CORSIA Eligible Emission Units.

1.2. References to "Annex 16, Volume IV" throughout this document refer to Annex 16 to the Convention on International Civil Aviation — *Environmental Protection, Volume IV — Carbon Offsetting and reduction Scheme for International Aviation (CORSIA)*, containing the Standards and Recommended Practices (SARPs) for CORSIA implementation. Reference to "ETM, Volume IV" throughout this document refer to Environmental Technical Manual (Doc 9501), Volume IV — *Procedures for demonstrating compliance with the Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA)*, containing the guidance on the process to implement CORSIA SARPs.

2. Programme - registry relationship:

2.1. The ICAO Council's Technical Advisory Body (TAB) conducts its assessment of emissions unit programme eligibility including an assessment of the programme's provisions and procedures governing the programme registry, as represented by the programme. The ICAO Council determines CORSIA eligible emissions units upon recommendations by TAB and

consistent with the EUC. The programme registry is not separately or independently considered throughout this process. The TAB may periodically review and report to the ICAO Council regarding the continued consistency of programme's registry and its administration with terms contained in this document's Part B.

2.2. The provision of registry services under the CORSIA by a CORSIA Eligible Emissions Unit Programme registry is fully subject to the terms, conditions and limitations to the programme's scope of eligibility. Such terms include, *inter alia*, the programme's commitment to administer any and all provisions and procedures governing the programme registry in the manner represented by the programme in the application form and additional information provided to TAB during the assessment process.

2.3. A CORSIA Eligible Emissions Unit Programme registry can provide registry services to aeroplane operators prior to the programme's and programme registry's demonstration of the registry's consistency with the registry requirements contained in this attestation. However, the programme registry can only claim to support and can only provide for aeroplane operators to fulfill the provisions in Annex 16, Volume IV and ETM, Volume IV involving emissions unit cancellation-, reporting-, and verification-related actions after its consistency with the registry requirements contained in this attestation is demonstrated by the programme in accordance with Part A, Paragraph 3 of this document, and the signed attestation is published on the CORSIA website in addition to the ICAO document "*CORSIA Eligible Emissions Units*".

3. Submitting an "*Emissions Unit Programme Registry Attestation*":

3.1. Both the administrator or authorized representative ("Programme Representative") of an emissions unit programme ("Programme"), and the administrator or authorized representative ("Registry Representative") of the registry designated by the Programme ("Programme Registry") will review and attest to their acceptance (as signed in Section 8 of this attestation) of all terms contained herein.

3.2. The Programme will electronically submit to the ICAO Secretariat a unique, dual-signed attestation for each and every Programme Registry that will provide its registry services to the Programme under the CORSIA:

3.2.1. If the Programme is determined to be eligible by a decision of the ICAO Council taken in 2020, the Programme will submit the signed attestation(s) to the ICAO Secretariat no later than one year after the Programme is determined to be eligible by the ICAO Council.

3.2.2. From 2021, the Programme should submit the signed attestation(s) to the ICAO Secretariat at the time of applying for assessment by the TAB. If the Programme is determined to be eligible by a decision of the ICAO Council after 31 December 2020, the Programme will submit the signed attestation(s) to the ICAO Secretariat no later than 180 days after the Programme is determined to be eligible by the ICAO Council.

3.3. As soon as possible upon receiving a signed attestation from the Programme, the ICAO Secretariat will:

3.3.1. Forward the signed attestation to the TAB; and

3.3.2. If the Programme is determined to be eligible by a decision of the ICAO Council, publicly post the signed attestation on the CORSIA website in addition to the ICAO document "*CORSIA Eligible Emissions Units*".

PART B: Emissions Unit Programme Registry Attestation

4. Programme application materials. As the Registry Representative, I certify items 4.1 to 4.4:

4.1. I have read and fully comprehend the following information:

4.1.1. The instructions and terms of this attestation;

4.1.2. The contents of the ICAO document “*CORSIA Emissions Unit Eligibility Criteria*”;

4.1.3. The contents of the most recent version of the application form that the Programme has provided to the ICAO Secretariat; and

4.1.4. The terms, conditions and limitations to the Programme’s scope of eligibility and further action(s) requested to the Programme by the ICAO Council, as presented to the Programme upon relevant decision of the ICAO Council on the Programme’s eligibility¹ for the 2024-2026 compliance period (First Phase).

4.2. The Programme’s representation of its provisions and procedures governing the Programme Registry, and of Programme Registry functionality, as contained in the most recent version of the application form that the Programme has provided to the ICAO Secretariat, is true, accurate, and complete, to the best of my knowledge;

4.3. The Programme Registry will notify the Programme of any material changes to the Programme Registry, to enable the Programme to maintain consistency with relevant criteria and guidelines throughout its assessment by TAB and up to an eligibility decision by the ICAO Council; and, if applicable, continuing on from the effective date of an affirmative eligibility decision by the ICAO Council, the Programme Registry will notify the Programme of any material changes to the Programme Registry, such that the Programme can maintain consistency with relevant criteria and guidelines;

4.4. The Programme Registry and Registry Representative will not publicly disseminate, communicate, or otherwise disclose the nature, content, or status of communications between the Programme, the Programme Registry, and/or the ICAO Secretariat, related to the status of the Programme’s provision of programme and registry services under the CORSIA, unless the Programme has received prior notice from the ICAO Secretariat that such information has been and/or can be publicly disclosed.

5. Scope of Programme responsibilities under the CORSIA. As the Registry Representative, I acknowledge items 5.1 to 5.2:

5.1. The scope of the Programme assessment by the TAB, through which the TAB will develop recommendations on the list of eligible emissions unit programmes (and potentially project types) for use under the CORSIA, which will then be considered by the ICAO Council for an eligibility decision, including the Programme’s responsibilities throughout this process; and

¹ Only applicable when the Programme submits the signed “*Emissions Unit Programme Registry Attestation*” to the ICAO Secretariat after the Programme is determined to be eligible by a decision of the ICAO Council.

- 5.2. The scope and limitations of the ICAO Secretariat's responsibilities related to the assessment process.
6. **Programme - Registry relationship.** As the Registry Representative, I understand and accept items 6.1 to 6.2:
- 6.1. The Programme Registry's provision of registry services under the CORSIA is subject to the terms, conditions and limitations to the Programme's scope of eligibility, as presented to the Programme upon relevant decision of the ICAO Council on the Programme's eligibility; and
- 6.2. Only after the Programme and the ICAO Secretariat have completed all steps in Part A, Section 3 of this attestation, can the Programme Registry facilitate and identify emissions unit cancellations specifically for CORSIA use, and support any related reporting and verification activities. The Programme Registry will not promote itself as being capable of providing registry services for the described purpose until such time.
7. **Scope of Programme Registry responsibilities under the CORSIA.** As the Registry Representative, I certify items 7.1 to 7.12:
- 7.1. The Programme Registry is capable of fully meeting the objectives of any and all Programme provisions and procedures related to the Programme Registry that the Programme is required to have in place:
- 7.1.1. In the manner represented by the Programme in the application form that the Programme has provided to the ICAO Secretariat; and
- 7.1.2. As acknowledged by the Programme in the signed "Programme acceptance to terms of eligibility for inclusion in the ICAO document "*CORSIA Eligible Emissions Units*"².
- 7.2. The Programme Registry will not deny a CORSIA participant's request for a registry account solely on the basis of the country in which the requestor is headquartered or based;
- 7.3. The Programme Registry will identify (in the case of applicants to be assessed to determine their eligibility) / identifies (when the Programme is determined to be eligible by a decision of the ICAO Council) CORSIA Eligible Emissions Units as defined in the ICAO document "*CORSIA Eligible Emissions Units*"³. This will be/is done consistent with the capabilities described by the Programme in its communications with ICAO, and any further requirements decided by the ICAO Council for CORSIA Eligible Emissions Unit Programme-designated Registry.
- 7.4. The Programme Registry will, upon request of the CORSIA participant account holder or participant's designee, designate the participant's cancellation of emissions units for the purpose of reconciling offsetting requirements under the CORSIA, including by compliance cycle;

² Only applicable when the Programme submits the signed "*Emissions Unit Programme Registry Attestation*" to the ICAO Secretariat after the Programme is determined to be eligible by a decision of the ICAO Council.

³ As prescribed in the ICAO Document "*CORSIA Eligible Emissions Units*", the programme must provide for and implement its registry system to identify its CORSIA eligible emissions units as defined in the document.

- 7.5. The Programme Registry will, within 1 – 3 business days of receipt of formal instruction from a duly authorized representative of the owner of an account capable of holding and cancelling CORSIA Eligible Emission Units within the registry, and barring system downtime that is scheduled in advance or beyond the control of the registry administrator, make visible on the Programme Registry's public website the account owners cancellations of CORSIA Eligible Emission Units as instructed. Such cancellation information will include all fields that are specified for this purpose in Annex 16, Volume IV, and ETM, Volume IV;
- 7.6. The Programme Registry will, upon request of the CORSIA participant account holder or participant's designee, generate report(s) containing the information specified for this purpose in Annex 16, Volume IV, and ETM, Volume IV;
- 7.7. The Programme Registry will maintain robust security practices that ensure the integrity of, and authenticated and secure access to, the registry data of CORSIA participant account holders or participants' designees, and transaction events carried out by a user; and disclose documentation of such practices upon request. The Programme Registry will utilize appropriate method(s) to authenticate the identity of each user accessing an account; grant each user access only to the information and functions that a user is entitled to; and utilize appropriate method(s) to ensure that each event initiated by a user (i.e. transfer of units between accounts; cancellation/retirement of a unit, update of data, etc.) is an intentional transaction event confirmed by the user. Such security features will meet and be periodically updated in accordance with industry best practice;
- 7.8. The Programme Registry will, upon identifying any breach of Programme Registry data security or integrity that affects a CORSIA participant account holder or participant's designee, notify the CORSIA participant account holder or their designee, and notify the Programme, which will inform and engage with the ICAO Secretariat on the matter in the same manner as required for material deviations from the Programme's application form;
- 7.9. The Programme Registry will ensure the irreversibility of emissions unit cancellations and the designation of the purpose of emissions units cancellations, as per the requirements contained in Annex 16, Volume IV, and ETM, Volume IV. Without prejudice to the aforementioned, such requirement would not prevent a Programme Registry from utilizing secure, time-bound and auditable methods for correcting unintentional user-entry errors;
- 7.10. The Programme Registry will ensure that all cancellation information on its website is presented in a user-friendly format; is available at no cost and with no credentials required; is capable of being searched based on data fields; and can be downloaded in a machine-readable format, e.g., .xlsx;
- 7.11. The Programme Registry will retain documents and data relevant to CORSIA Eligible Emissions Units and cancellations on an ongoing basis and for at least three years beyond the end date of the latest compliance period in which the emissions unit programme is determined to be eligible; and consistent with the Programme's long-term planning, including plans for possible dissolution;
- 7.12. The Programme Registry will append a document to the end of the signed attestation describing how it will ensure its ability to implement the requirements of this document. This will include references to existing registry functionalities that already meet the

requirements of this document and/or description of business practices and procedures that ensure the Programme Registry's ability to implement the requirements in this document prior to identifying any emissions unit cancellations specifically for CORSIA use and supporting any related reporting and verification activities.

8. **Accuracy and completeness of information.** The signatures below certify that the information provided is true and correct in all material respects on the date as of which such information is dated or certified and does not omit any material fact necessary in order to make such information not misleading. Representatives are duly authorized for official correspondence on behalf of their organization.



Programme Representative Signature

XU Huaqing

Programme Representative Name

China Certified Emission
Reduction Trading System

Programme Name

Jan 31, 2024

Date



Registry Representative Signature

ZHANG Xin

Registry Representative Name

Registry of China Certified
Emission Reduction Trading System

Registry Name

Jan 31, 2024

Date

Instructions for Registry Representative: Please append a document on the next page of this attestation describing your Registry's ability to implement the requirements of this document, including references to existing registry functionalities that meet the requirements of this document and/or description of business practices and procedures that ensure the Programme Registry's ability to implement the requirements of this document prior to identifying any emissions unit cancellations specifically for CORSIA use and supporting any related reporting and verification activities.

ATTACHMENT A: PROGRAMME REGISTRY ATTESTATION DISCLOSURE FORM

PART 1: INSTRUCTIONS FOR REGISTRY REPRESENTATIVE

The following information request corresponds to the registry representative's certification of its adherence to items 7.1 to 7.11 of the *Emissions Unit Programme Registry Attestation* "Scope of Programme Registry responsibilities under the CORSIA".

In accordance with item 7.12 of the *Emissions Unit Programme Registry Attestation*, registry administrators are to complete and append this form to the signed *Attestation* describing how the Registry will ensure its ability to implement the requirements of the *Attestation*. This includes references to existing registry functionalities that already meet the requirements of the *Attestation* and/or descriptions of business practices and procedures that ensure the Programme Registry's ability to implement the requirements in the *Attestation*.

For further guidance regarding the format and approaches for providing summary information and evidence of system functionalities and/or procedures in this form, refer to instructions for "**Form Completion**" in the *Application Form for Emissions Unit Programmes*⁴.

PART 2: PROGRAMME AND REGISTRY REPRESENTATIVE INFORMATION

1. Programme Representative Information

A. Programme Information

Programme name: China Certified Emission Reduction Trading System

Administering Organization⁵: Ministry of Ecology and Environment of the People's Republic of China

Official mailing address: Room 211, No.12, East Chang'an Avenue, Dongcheng District, Beijing, P.R. China, 100006

Telephone #: +86-10-65645642.

Official web address: <https://www.mee.gov.cn/>

B. Programme Administrator Information (i.e., individual contact person)

Full name and title: Xia Yingxian, Director-General of Climate Change Department

Employer / Company (*if not programme*): Ministry of Ecology and Environment of the People's Republic of China

E-mail address: climate_china@mee.gov.cn

Telephone #: +86-10-65645642

⁴ <https://www.icao.int/environmental-protection/CORSIA/Pages/TAB.aspx>

⁵ **Please complete**, even if the name of the business, government agency, organization, or other entity that administers the Emissions Unit Programme is the same as "*Programme Name*".

C. Programme Representative Information (if different from Programme Administrator)

Full name and title: XU Huaqing, Direct General.

Employer / Company (*if not Programme*): National Centre for Climate Change Strategy and International Cooperation

E-mail address: xuhq@ncsc.org.cn

Telephone #: +86 10 8226 8401

2. Registry Representative Information⁶

A. Registry Information

Registry / system name: Registry of China Certified Emission Reduction Trading System

Administering Organization: National Centre for Climate Change Strategy and International Cooperation

Official mailing address: Room 415, International Environmental Convention Implementation Building, #5 Houyingfang Hutong, Xicheng District, Beijing, P.R.China, 100035.

Telephone #: +86 10 8226 8405

Official web address: <http://www.ncsc.org.cn/>

B. Registry Administrator Information (i.e., individual contact person)

Full name and title: ZHANG Xin, Chief Economic Manager

Employer / Company (*if not Registry Administering Organization*): National Centre for Climate Change Strategy and International Cooperation

E-mail address: zhangxin@ncsc.org.cn

Telephone #: +86 10 8226 8405

C. Programme Representative Information (if different from Registry Administrator)

Full name and title: ZHANG Xin, Chief Economic Manager

Employer / Company (*if not Registry Administering Organization*): National Centre for Climate Change Strategy and International Cooperation

E-mail address: zhangxin@ncsc.org.cn

Telephone #: +86 10 8226 8405

⁶ Please complete this section, even if the business, government agency, organization, or other entity that administers the Emissions Unit Programme Registry is the same as the organization described in Part 2. "1. Programme Representative Information".

PART 3: EVIDENCE OF ADHERENCE TO SCOPE OF REGISTRY RESPONSIBILITIES

	Does the Programme Registry fully meet the objectives of any and all Programme provisions and procedures related to the Programme Registry that the Programme is required to have in place in the manner represented by the Programme in the application form that the Programme has provided to the ICAO Secretariat and, if applicable ⁷ , as acknowledged by the Programme in the signed “Programme acceptance to terms of eligibility for inclusion in the ICAO document “ <i>CORSIA Eligible Emissions Units</i> ”?”	<input checked="" type="checkbox"/> YES
7.1	<p>Describe how the Registry ensures its ability to implement these provisions:</p> <p>The China Certified Emission Reduction Trading System (CCER) registration system is designed and developed based on the <i>Measures for the Administration of Voluntary Greenhouse Gas Emission Reduction Trading (Trial)</i> issued by the Ministry of Ecology and Environment, to record information related to voluntary emission reduction projects and the registration, holding, alteration, and cancellation of certified voluntary emission reductions units. It is the designated registration system for CCER mechanism and can fully meet the provisions and procedures related to the registration of the CCER mechanism.</p> <p>CCER registration system is an electronic and centralized online platform which can identify and track each CCER and its holder and other related information through serial numbers and codes. The CCER registration management organization, National Center for Climate Change Strategy, and International Cooperation (NCSC) published relevant provisions in the <i>Registration Rules for Voluntary Greenhouse Gas Emissions Reduction (Trial)</i> (the Registration Rules) and <i>Guidelines for Opening an Account in the National Voluntary Greenhouse Gas Emissions Reduction Registration System</i>. These documents, which have been published on the registration system website, explain the project registration provisions and procedures and outline aspects such as project and emission reduction registration, account management, information disclosure, and supervision and management, and the step-by-step procedures for opening accounts for different types of users.</p> <p>In the field below, provide link(s) to any web-based evidence of existing registry functionalities and/or of documents demonstrating business practices and procedures for the Programme Registry’s implementation of these provisions. Alternatively, or in addition, confirm that such evidence is included as an attachment to this <i>Emissions Unit Programme Registry Attestation</i>.</p> <p>The aforementioned regulations and procedures of the registration system are publicly available on the registration system website at https://ccer.cets.org.cn/client/home under the sections "Policy and Regulations," "Technical Specifications," "Service," and "Information Disclosure."</p>	
7.2	<p>Will the Programme Registry ensure that a CORSIA participant’s request for a registry account will not be denied solely on the basis of the country in which the requestor is headquartered or based?</p> <p>Describe how the Registry does or will implement this provision:</p> <p>According to the <i>Measures for the Administration of Voluntary Greenhouse Gas Emission Reduction Trading (Trial)</i> issued by the Ministry of Ecology and Environment, legal persons, other organizations, and natural persons who comply with relevant national regulations may participate in voluntary greenhouse gas emission reduction trading in accordance with the Management Measures. The functionality to support</p>	<input checked="" type="checkbox"/> YES

⁷ Only applicable when the Programme submits the signed “*Emissions Unit Programme Registry Attestation*” to the ICAO Secretariat after the Programme is determined to be eligible by a decision of the ICAO Council.

airlines under CORSIA in submitting account opening applications, offsetting, and related permissions has been developed in the CCER registration system. Please refer to the following image.

In the field below, provide link(s) to any web-based evidence of existing registry functionalities and/or of documents demonstrating business practices and procedures for the Programme Registry's implementation of these provisions. Alternatively, or in addition, confirm that such evidence is included as an attachment to this *Emissions Unit Programme Registry Attestation*.



Fig. 7.2-1 Screenshot of CORSIA-related company account opening application

	<p>Will the Programme Registry (in the case of applicants to be assessed to determine their eligibility)/Does the Programme Registry (when the Programme is determined to be eligible by a decision of the ICAO Council) identify / label its CORSIA eligible emissions units as defined in the ICAO Document “<i>CORSIA Eligible Emissions Units</i>”?</p>	<input checked="" type="checkbox"/> YES
	<p>Describe how the Registry does or will implements this provision:</p>	
<p>7.3</p>	<p>The CCER registration system will mark whether the project is eligible for CORSIA offset using an identification code and attaching a label during registration. This way, airlines under CORSIA can purchase CCER projects that meet the requirements in the CCER trading market.</p>	
	<p>In the field below, provide link(s) to any web-based evidence of existing registry functionalities and/or of documents demonstrating business practices and procedures for the Programme Registry's implementation of these provisions. Alternatively, or in addition, confirm that such evidence is included as an attachment to this <i>Emissions Unit Programme Registry Attestation</i>.</p>	



Fig. 7.3 -1 Project registration application



Fig. 7.3-2 CORSIA identification in CCER identification code

	Will the Programme Registry, upon request of the CORSIA participant account holder or participant's designee, designate the participant's cancellation of emissions units for the purpose of reconciling offsetting requirements under the CORSIA, including by compliance cycle?	<input checked="" type="checkbox"/> YES
7.4	Describe how the Registry does or will implement these provisions: The CCER registration system provides the option of cancellation purposes when CORSIA participants cancel eligible emission units, including CORSIA offset, and the compliance period applicable to CORSIA offset is configurable. In the field below, provide link(s) to any web-based evidence of existing registry functionalities and/or of documents demonstrating business practices and procedures for the Programme Registry's implementation of these provisions. Alternatively, or in addition, confirm that such evidence is included as an attachment to this <i>Emissions Unit Programme Registry Attestation</i> .	

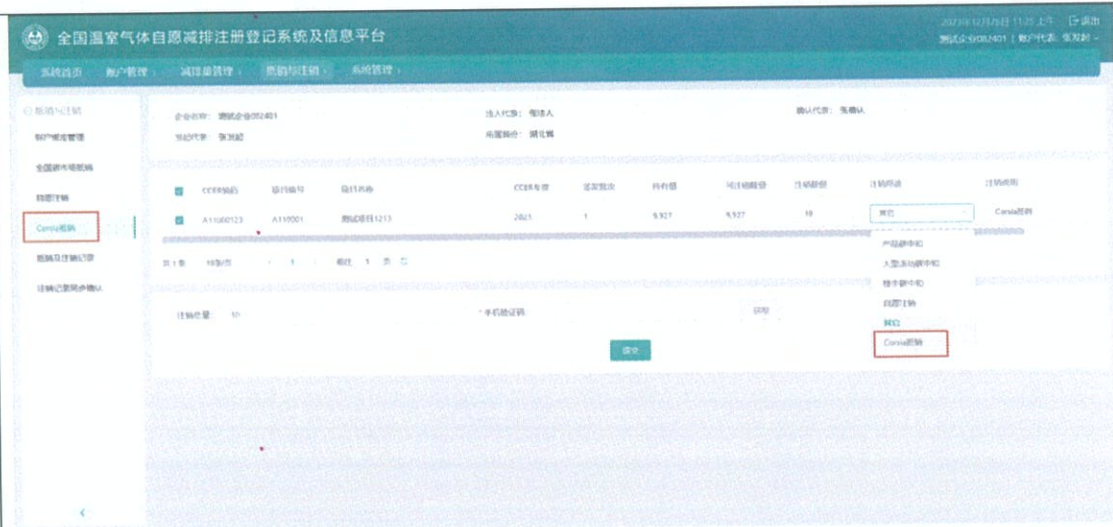


Fig. 7.4-1 CORSIA offset function

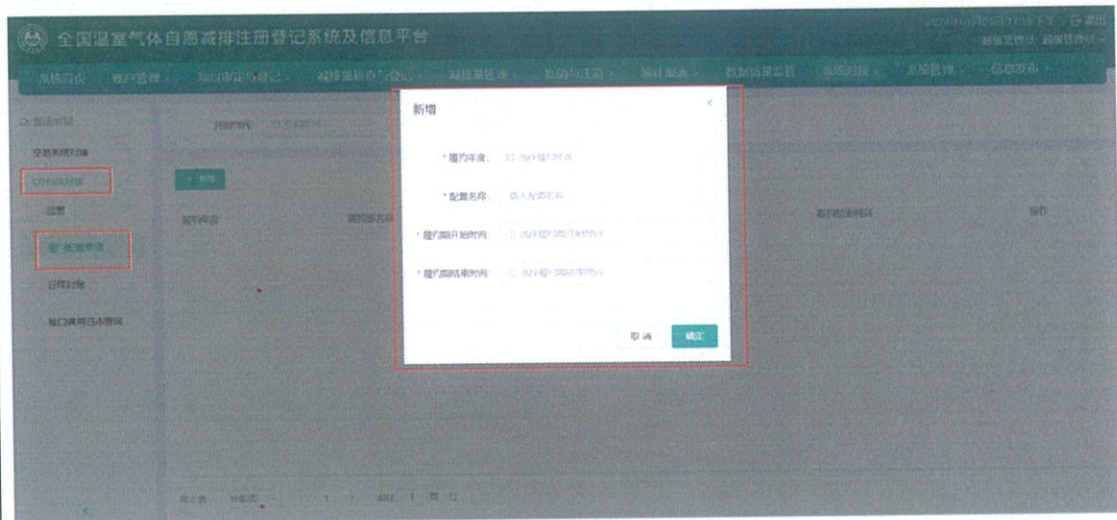


Fig. 7.4-2 CORSIA compliance period configuration

7.5	a. Will the Programme Registry, within 1 – 3 business days of receipt of formal instruction from a duly authorized representative of the owner of an account capable of holding and cancelling CORSIA Eligible Emission Units within the registry, and barring system downtime that is scheduled in advance or beyond the control of the registry administrator, make visible on the Programme Registry’s public website the account owner’s cancellations of CORSIA Eligible Emission Units as instructed.	☑ YES
	b. Will such cancellation information (row a) include all fields that are specified for this purpose in Annex 16, Volume IV, and ETM, Volume IV?	☑ YES
	Describe how the Registry does or will implement these provisions:	
The CCER registration management, after receiving the account owner's cancellation application, will disclose the status of CORSIA eligible emission units on the homepage of the CCER registration system		

website in a timely manner as required and generate information as stipulated in Annex 16 Volume IV and ETM Volume IV.

In the field below, provide link(s) to any web-based evidence of existing registry functionalities and/or of documents demonstrating business practices and procedures for the Programme Registry's implementation of these provisions. Alternatively, or in addition, confirm that such evidence is included as an attachment to this *Emissions Unit Programme Registry Attestation*.

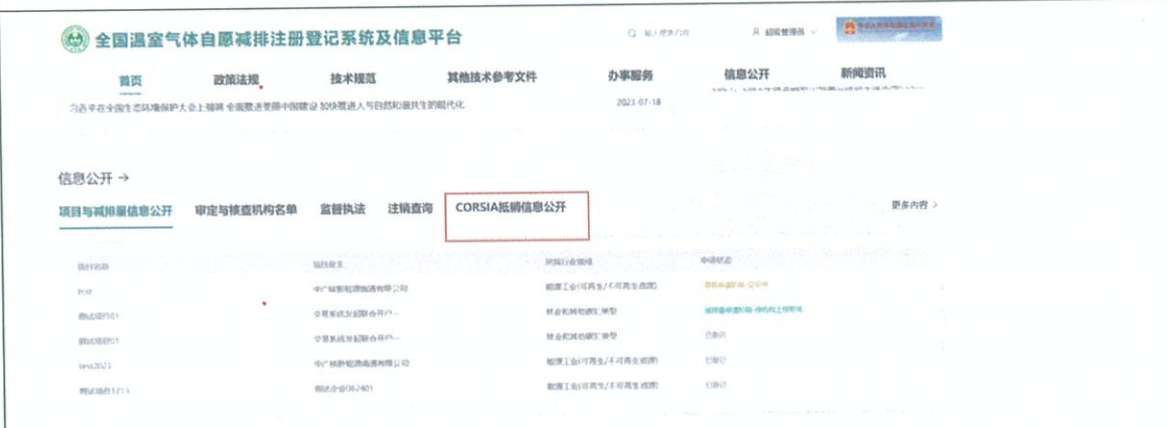


Fig. 7.5-1 Platform information disclosure



Fig. 7.5-2 Information disclosure and inquiry page

7.6	Will the Programme Registry, upon request of the CORSIA participant account holder or participant's designee, generate report(s) containing the information specified for this purpose in Annex 16, Volume IV, and ETM, Volume IV?	<input checked="" type="checkbox"/> YES
	Describe how the Registry does or will implement this provision:	
	The reply is the same as 7.5.	
	In the field below, provide link(s) to any web-based evidence of existing registry functionalities and/or of documents demonstrating business practices and procedures for the Programme Registry's implementation of these provisions. Alternatively, or in addition, confirm that such evidence is included as an attachment to this <i>Emissions Unit Programme Registry Attestation</i> .	
The reply is the same as 7.5.		

a. Does the Programme Registry maintain robust security practices that ensure the integrity of, and authenticated and secure access to, the registry data of CORSIA participant account holders or participants' designees, and transaction events carried out by a user?	<input checked="" type="checkbox"/> YES
b. Does the Programme Registry disclose documentation of such practices (row a) upon request?	<input checked="" type="checkbox"/> YES
c. Does the Programme Registry utilize appropriate method(s) to authenticate the identity of each user accessing an account?	<input checked="" type="checkbox"/> YES
d. Does the Programme Registry grant each user access only to the information and functions that a user is entitled to?	<input checked="" type="checkbox"/> YES
e. Does the Programme Registry utilize appropriate method(s) to ensure that each event initiated by a user (i.e. transfer of units between accounts; cancellation/retirement of a unit, update of data, etc.) is an intentional transaction event confirmed by the user?	<input checked="" type="checkbox"/> YES
f. Do such security features (rows a – e) meet and undergo periodic updates in accordance with industry best practice?	<input checked="" type="checkbox"/> YES

Describe how the Registry implements each provision in rows a – f:

7.7

The CCER registration system will strictly define operational permissions based on the user's type. Each account representative must enter a mobile verification code during login to ensure security (a, c, d). Such measures are explained in the *Registration Rules for Voluntary Greenhouse Gas Emissions Reduction (Trial)* (b). In this system, airlines under CORSIA are designated as CORSIA compliance offsetting entities under the "enterprise category" and have CORSIA performance offsetting functions. Relevant operations are carried out by initiating representatives and confirming representatives based on their respective permissions (e). key functions such as CCER transfer, offset and cancellation will strictly adhere to the Four-eye Principle, which means that the application is initiated by the enterprise's initiating representative and confirmed by the enterprise's confirming representative, ensuring the accuracy and security of enterprise operations. Specifically illustrated as follows:

角色名称	角色状态	创建时间	操作
企业默认代表	启用	2023-06-03 16:21:31	修改 删除
企业默认代表	禁用	2023-06-03 16:21:23	修改 删除
国家管理员	启用	2023-06-03 16:15:02	修改 删除
国家操作员	禁用	2023-06-03 16:19:09	修改 删除
国家管理员	禁用	2023-06-03 16:14:49	修改 删除
企业审核员	禁用	2023-06-03 16:15:20	修改 删除
企业审核员	禁用	2023-06-03 16:18:39	修改 删除
系统管理员	禁用	2023-06-03 10:20:20	修改 删除
信息员	禁用	2023-06-16 00:01:49	修改 删除
信息中心管理员	禁用	2023-05-17 11:23:25	修改 删除

Fig. 7.7-1 System user types and permission divisions



Fig. 7.7-2 Permission settings

(f) The CCER registration system is deployed on the ecological environment cloud platform managed by the Information Center of Ministry of Ecology and Environment and is equipped with a sound security protection network system to prevent external network attacks. The CCER registration system has passed the third-level security protection test, and the Information Center conducts regular system security attack and defense drills. Dual-link dedicated lines are used for data communication between the CCER registration system and external systems. Various measures are in place to ensure that data loss and distortion do not occur due to network hardware failures or external network attacks, ensuring the absolute security of data and complying with industry best practices.

In the field below, provide link(s) to any web-based evidence of existing registry functionalities and/or of documents demonstrating business practices and procedures for the Programme Registry's implementation of these provisions. Alternatively, or in addition, confirm that such evidence is included as an attachment to this *Emissions Unit Programme Registry Attestation*.

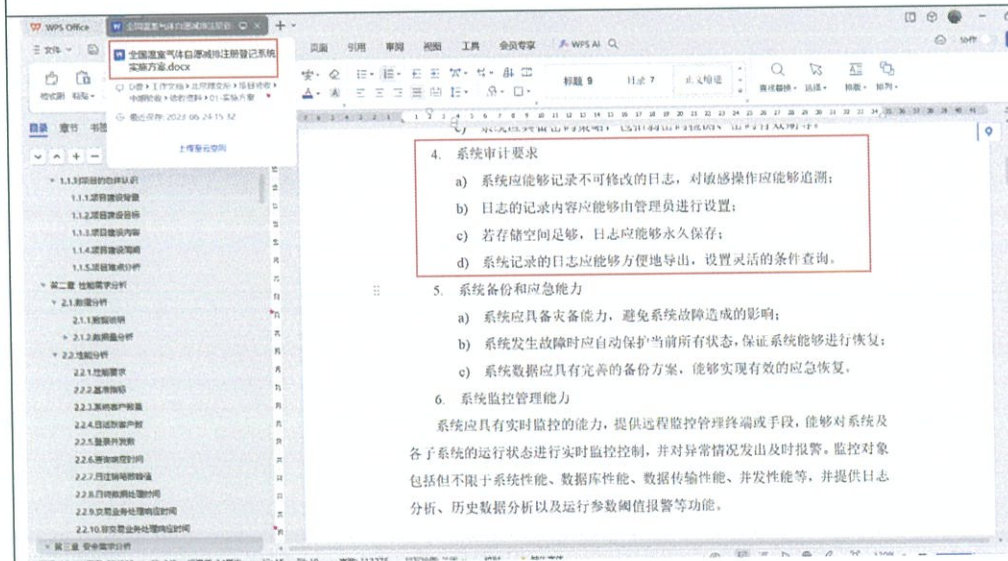
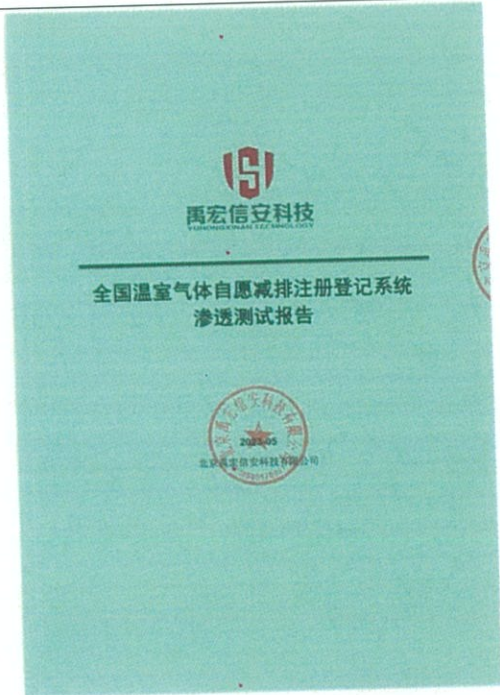


Fig. 7.7-3 CCER registration system construction implementation plan



成文信息			
主题词:	渗透测试报告		
作者:	北京禹宏信安科技有限公司		
审核:	刘强		
批准:	石磊		
主送:	北京绿色交易所有限公司		
文档类别:	技术类文档		
文档范围:	项目组内部		
测试摘要 本次安全性测试的对象为: 北京绿色交易所有限公司-全国温室气体自愿减排注册登记系统。 本次渗透测试发现全国温室气体自愿减排注册登记系统存在: 2个高风险漏洞(越权、敏感信息泄露)、5个中风险漏洞(会话固定、错误信息泄露、文件上传、X-Forwarded-For 头伪造、明文传输)。 修复: 以上漏洞已修复。			
接收信息 接收方: 北京禹宏信安科技有限公司 代表人: 石磊 日期: 2023.05.30			
变更信息			
版本	原因	作者	日期
V1.0	标准化及成文	刘强	2023.05.29
V2.0	审核、修订	雷雷	2023.05.30

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Fig. 7.7-4 CCER registration system security test report

7.8	a. Will the Programme Registry, upon identifying any breach of Programme Registry data security or integrity that affects a CORSIA participant account holder or participant's designee, notify the CORSIA participant account holder or their designee?	<input checked="" type="checkbox"/> YES
	b. Will the Programme Registry, upon identifying any breach of Programme Registry data security or integrity that affects a CORSIA participant account holder or participant's designee, notify the Programme, which will inform and engage with the ICAO Secretariat on the matter in the same manner as required for material deviations from the Programme's application form?	<input checked="" type="checkbox"/> YES
	Describe how the Registry does or will implement each provision in rows a and b:	
<p>The CCER registration system is designed with a comprehensive end-of-day clearing and reconciliation mechanism. It conducts a full-process business-level self-check and verification of the business data generated each day, ensuring that the daily issuance, transfer, and offset cancellation quantities match the recorded business volume. In case of inconsistencies, technical personnel will manually analyze and handle the problematic data rows, notify the relevant parties involved and inform the ICAO Secretariat simultaneously.</p> <p>In the field below, provide link(s) to any web-based evidence of existing registry functionalities and/or of documents demonstrating business practices and procedures for the Programme Registry's implementation of these provisions. Alternatively, or in addition, confirm that such evidence is included as an attachment to this <i>Emissions Unit Programme Registry Attestation</i>.</p>		



Fig. 7.8-1 End-of-day stepwise clearing mechanism



Fig. 7.8-2 User operation log query design

	Does the Programme Registry ensure the irreversibility of emissions unit cancellations and the designation of the purpose of emissions units cancellations, as per the requirements contained in Annex 16, Volume IV, and ETM, Volume IV ⁸ ?	☑ YES
7.9	Describe how the Registry implements these provisions:	
	The cancellation of units in the CCER registration system should be confirmed by the enterprise's confirming representative and approved by the designated competent department (such as the Ministry of Ecology and Environment or the Civil Aviation Administration of China) after review, all of which are irreversible. Users need to explain the purpose of cancellation. Please see 7.4.	
	In the field below, provide link(s) to any web-based evidence of existing registry functionalities and/or of documents demonstrating business practices and procedures for the Programme	

⁸ Without prejudice to the aforementioned, such requirement would not prevent a Programme Registry from utilizing secure, time-bound and auditable methods for correcting unintentional user-entry errors.

Registry's implementation of these provisions. Alternatively, or in addition, confirm that such evidence is included as an attachment to this *Emissions Unit Programme Registry Attestation*.

a. Does the Programme Registry ensure that all cancellation information on its website is presented in a user-friendly format?	<input checked="" type="checkbox"/> YES
b. Does the Programme Registry ensure that all cancellation information on its website is available at no cost and with no credentials required?	<input checked="" type="checkbox"/> YES
c. Does the Programme Registry ensure that all cancellation information on its website is capable of being searched based on data fields?	<input checked="" type="checkbox"/> YES
d. Does the Programme Registry ensure that all cancellation information on its website can be downloaded in a machine-readable format, e.g., .xlsx?	<input checked="" type="checkbox"/> YES

Describe how the Registry implements each provision in rows a – d:

The CCER registration agency will announce the cancellation of CORSIA eligible emission units by the account owner on the CCER registration system website and ensure that all CORSIA cancellation information on its website is publicly accessible, provided free of charge, user-friendly, and available for download (refer to section 7.5a). The CCER registration system can query historical business operation records of enterprises and export offset and cancellation record documents to facilitate enterprises' querying and summarizing their information. In addition, cancellation records can be queried based on keywords in the registration platform.

7.10

In the field below, provide link(s) to any web-based evidence of existing registry functionalities and/or of documents demonstrating business practices and procedures for the Programme Registry's implementation of these provisions. Alternatively, or in addition, confirm that such evidence is included as an attachment to this *Emissions Unit Programme Registry Attestation*.

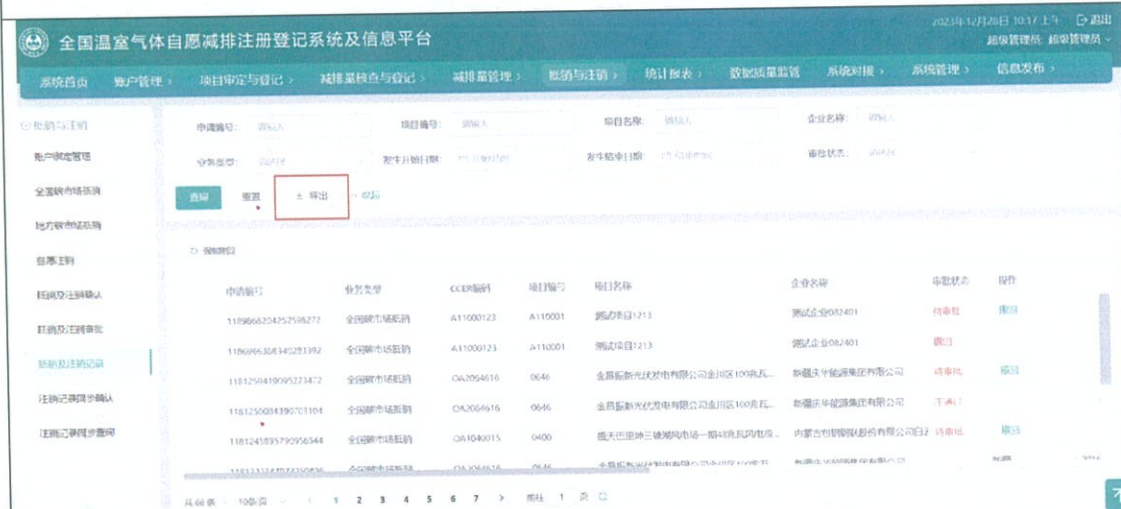


Fig. 7.10-1 Offset and cancellation record query function

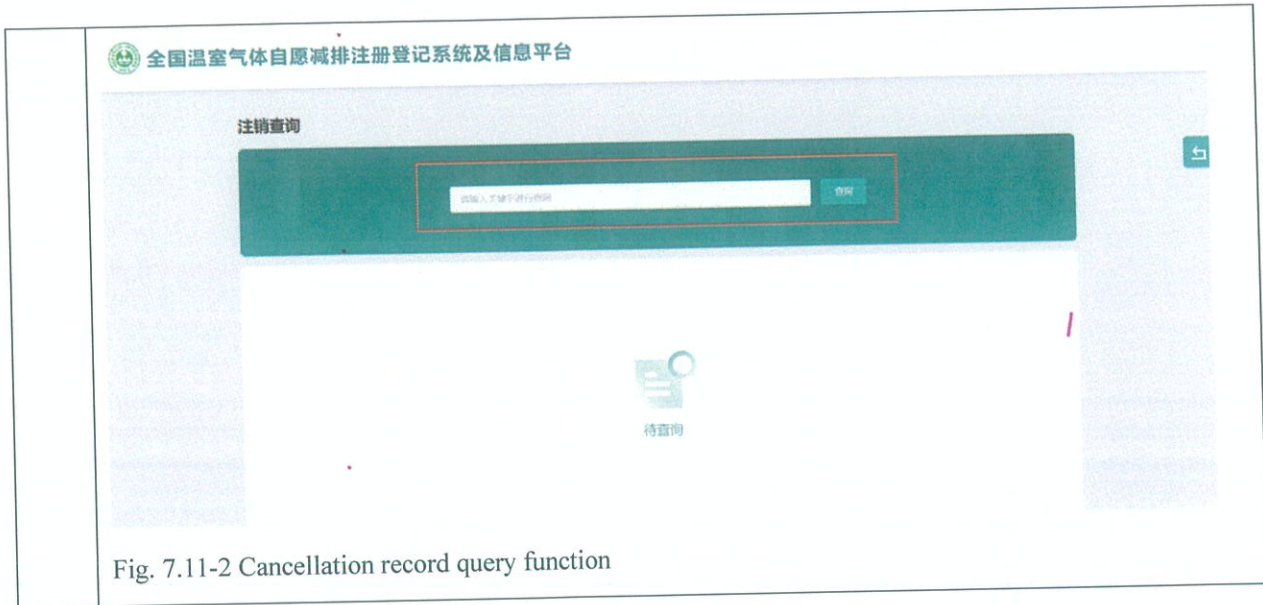


Fig. 7.11-2 Cancellation record query function

7.11	<p>a. Will the Programme Registry retain documents and data relevant to CORSIA Eligible Emissions Units and cancellations on an ongoing basis and for at least three years beyond the end date of the latest compliance period in which the emissions unit programme is determined to be eligible?</p>	☑ YES
	<p>b. Will the Programme Registry retain documents and data relevant to CORSIA Eligible Emissions Units and cancellations consistent with the Programme's long-term planning, including plans for possible dissolution?</p>	☑ YES
	<p>Describe how the Registry does or will implement each provision in rows a and b:</p>	
	<p>The CCER registration agency is the National Center for Climate Change Strategy and International Cooperation, which is a non-profit public institution under the jurisdiction of the Ministry of Ecology and Environment. All data related to emission reduction project registration, certified voluntary emission reduction registration and cancellation, and other relevant information in the CCER registration system, including documents and data associated with CORSIA eligible emission units and cancellations, will be permanently stored under normal conditions. If the CCER mechanism ceases to operate, this information will also be properly arranged and preserved. In addition, according to the <i>Measures for the Administration of Voluntary Greenhouse Gas Emission Reduction Trading (Trial)</i>, the original records and management ledger of the project design documents shall be kept for at least ten years after the last registration of emission reduction. The original records and management ledgers of data and information related to the emission reduction calculation report shall be kept for at least ten years after the last registration of emission reduction in the voluntary greenhouse gas emission reduction project.</p>	
	<p>In the field below, provide link(s) to any web-based evidence of existing registry functionalities and/or of documents demonstrating business practices and procedures for the Programme Registry's implementation of these provisions. Alternatively, or in addition, confirm that such evidence is included as an attachment to this <i>Emissions Unit Programme Registry Attestation</i>.</p>	
	<p>The aforementioned regulations and procedures of the CCER registration system are publicly available on the registration system website at https://ccer.cets.org.cn/client/home under the sections "Policy and Regulations," "Technical Specifications," "Service," and "Information Disclosure."</p>	