



2021 S&P Global Corporate Sustainability Assessment Supplement

This document provides data and documentation in support of The Boeing Company's response to the 2021 S&P Global Corporate Sustainability Assessment and is shared publicly with all our sustainability stakeholders.

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Environmental Reporting

Our performance data and 2025 targets are based on a core set of sites that represent approximately 70% or higher of the enterprise based on headcount.

See Appendix A for 2020 verification report and Appendix B for 2020 verification statement.

EMS Certification and Verification

See Appendix C for ISO14001 Certifications.

Scope 1 Emissions

Direct GHG (Scope 1)	Unit	FY 2017	FY 2018	FY 2019	FY 2020
Total direct GHG emissions (Scope 1)	metric tonnes CO2 equivalents	626000	646000	613000	560000
Data coverage (as % of denominator)	percentage of: head count	90	90	94	100

See Appendix A for 2020 verification report and Appendix B for 2020 verification statement.

Scope 2 Emissions

IGHG (Scope2)	Unit	FY 2017	FY 2018	FY 2019	FY 2020
Indirect greenhouse gas emissions from energy purchased and consumed (scope 2)	metric tonnes of CO2 equivalents	779000	753000	733000	625000
Data coverage(as % of denominator)	percentage of: head count	90	90	94	100

See Appendix A for 2020 verification report and Appendix B for 2020 verification statement.

Energy Consumption

Total energy consumption	Unit	FY 2017	FY 2018	FY 2019	FY 2020
Non- renewable fuels (nuclearfuels, coal, oil, natural gas, etc.) purchased and consumed	MWh	2852000	2918000	2786000	2421000
Non- renewable electricity purchased	MWh	1982000	1218000	1172000	1686000
Steam /heating / cooling and other energy (non-renewable) purchased	MWh	0	0	0	0
Total renewable energy (wind, solar, biomass, hydroelectric, geothermal, etc.) purchased or generated.	MWh	344000	1087000	1104000	392000
Total non- renewable energy (electricity and heating &cooling) sold	MWh	0	0	0	0
TOTAL NON-RENEWABLE ENERGY CONSUMPTION	MWh	4834000	4136000	3958000	4107000
Data coverage(as % of denominator)	percentage of: head count	90	90	94	100

See Appendix A for 2020 verification report and Appendix B for 2020 verification statement.

Water Consumption

Water Consumption	Unit	Financial Year 2017	Financial Year 2018	Financial Year 2019	Financial Year 2020
Withdrawal: Total municipal water supplies (or from other water utilities)	Million cubic meters	5.6	5.7	5.2	4.3
Withdrawal: Fresh surface water (lakes, rivers, etc.)*	Million cubic meters				
Withdrawal: Fresh groundwater*	Million cubic meters				0.009
Discharge: Water returned to the source of extraction at similar or higher quality as raw water extracted*	Million cubic meters				
TOTAL NET FRESHWATER CONSUMPTION	Million cubic meters	5.6	5.7	5.2	4.3
Data Coverage (as % of denominator)	percentage of head count	75	75	77	79

*Blank cells indicate data is not currently available.

Waste Disposal

Waste disposed	Unit	FY 2017	FY 2018	FY 2019	FY 2020
TOTAL WASTE DISPOSED	metric tonnes	15847	14932	13469	11384
Data coverage (as % of denominator)	percentage of: head count	75	75	77	79

Hazardous Waste

HAZARDOUS WASTE	Unit	FY 2017	FY 2018	FY 2019	FY 2020
Hazardous Waste Generated	metric tonnes	6901	7010	7089	4935
Data coverage (as % of denominator)	percentage of head count	75	75	77	79

Volatile Organic Compounds Emissions

Direct VOC Emissions	Unit	FY 2017	FY 2018	FY 2019	FY 2020
Direct VOC Emissions	metric tonnes	1147 metric tonnes	1076 metric tonnes	1079 metric tonnes	534 metric tonnes
Data coverage (as a % of denominator)	percentage of: head count	55	55	58	54

5 May | 21

GHG INVENTORY VERIFICATION REPORT

2020 GHG EMISSIONS INVENTORY – The Boeing Company

VERIFICATION FOR CARBON DISCLOSURE PROJECT (CDP)

SUBMITTED BY: DNV GL BUSINESS ASSURANCE USA, INC.

Date of first issue: 05/05/2021		Project No.: PRJN-233492-2021-AST-USA	
Approved by David Tellez		Organizational unit: DNV GL Business Assurance USA, Inc.	
Client: The Boeing Company		Client ref.: Chunjiang (Stella) Huang	
Summary:			
<p>DNV GL Business Assurance USA, Inc. has carried out an independent verification of The Boeing Company's Scope 1, 2, and 3 (business travel only) greenhouse gas (GHG) emissions inventory for its global locations under its operational control for calendar year 2020, without known exclusion. DNV GL's verification was performed according to ISO 14064-3:2006 – Greenhouse Gases Part 3: Specification with Guidance for the Validation and Verification of Greenhouse Gas assertions.</p> <p>The assertions are stated in the Verification Opinion (Page 12). Based on the processes and procedures conducted with a limited assurance, there is no evidence that these GHG assertions are not materially correct and are not a fair representation of GHG data and information, and have not been prepared in accordance with the calculation methodologies contained in the World Resources Institute and the World Business Council for Sustainable Development (WRI/WBCSD) Greenhouse Gas Protocol.</p>			
Work carried out by: Shruthi Poonacha Bachamanda		<input checked="" type="checkbox"/> No distribution without permission from the client or responsible organisational unit <input type="checkbox"/> free distribution within DNV after 3 years <input type="checkbox"/> Strictly confidential <input type="checkbox"/> Unrestricted distribution	
Work reviewed by: Weidong Yang			
Date of this revision: 04/28/2021	Rev. No.: 1		
<p>DNV GL Business Assurance USA Inc. 155 Grand Avenue, Oakland, California All rights reserved. This publication or parts thereof may not be reproduced or transmitted in any form or by any means, including photocopying or recording, without the prior written consent of DNV GL Business Assurance USA Inc.</p>			

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INTRODUCTION

THE BOEING COMPANY

The Boeing Company (Boeing) together with its subsidiaries, is the world's largest aerospace firm and a leading manufacturer of commercial jetliners and defense, space and security systems. A top U.S. exporter, the company supports airlines as well as U.S. and allied government customers in 150 countries. Boeing has facilities with operational control across 42 countries. With corporate offices in Chicago IL, Boeing employs more than 140,000 people across the United States and in more than 65 countries with the primary operations located in the US.

Boeing retained DNV GL Business Assurance USA, Inc. (DNV GL) to verify its greenhouse gas (GHG) emissions inventory for its global operations for the 2020 calendar year. Boeing is responding to the 2021 CDP Climate Change Investor Questionnaire and reporting its global corporate GHG emissions on their sustainability report. The GHG inventory compiled by Boeing and the GHG inventory verification performed by DNV GL is a component of Boeing's long-term GHG management strategy. This is the seventh annual verification conducted by DNV GL for Boeing.

The main point of contact for GHG Emissions Inventory is Chunjiang (Stella) Huang, located in Renton, WA. This verification was conducted from April 1, 2021 through April 30, 2021. A remote site visit took place at the Boeing Defense, Space & Security (BDS)'s facility in Philadelphia on April 20, 2021.

Boeing includes four business units:

- Commercial airplanes,
- Boeing Capital Corporation,
- Defense Space and security, and
- Global services (Business service for global defense, space and commercial customers).

Boeing has operational control over totally 1,720 buildings and 86,000,000 sqft by area. This includes business, factory, warehouse, laboratory, utility miscellaneous and others.

ENVIRONMENTAL INITIATIVES

Boeing is focused on being an environmental and operational leader in the aerospace industry and has been submitting reports on its GHG Management and GHG Inventory to the CDP since 2008. The work commissioned this year is part of Boeing's effort of continual improvement, and commitment to its customers, communities, and the environment in which it operates.

Boeing has a GHG emissions target to reduce its GHG emissions Scope 1 and Scope 2 for the identified sites by 25% compared to its GHG emissions in baseline year 2017 by the year 2025.

Boeing has achieved its earlier target of 0% increase in GHG emissions in 2017 compared to the GHG emissions in baseline year (2012). Boeing was part of the Climate Leaders Program

established by the U.S. Environmental Protection Agency (EPA) in 2008, which provided guidance on development of the GHG inventory.

Boeing has been awarded the Energy Star partner of the year – sustained excellence award for 2021. Boeing has been recognized by Energy Star for eleven consecutive years.

VERIFICATION OBJECTIVES

The purpose of the verification is to have an independent third party assess the emissions data reported. In particular, the organization’s management systems, monitoring plan, and compliance with WRI/WBCSD Greenhouse Gas Protocol including associated updates and clarifications criteria. Verification is an option for all organizations that intend to report with the Carbon Disclosure Project (CDP) and is seen as useful to provide assurance to stakeholders of the quality of the data reported. The purpose of third-party verification is to provide confidence to users (state regulatory agencies, tribal authorities, investors, suppliers, customers, local governments, CDP, the public, etc.) that the reported emissions represent a faithful, true, and fair account of your emissions—free of material misstatements and conforming to WRI/WBCSD reporting guidelines. The verification process further promotes completeness, consistency, comparability, accuracy, and transparency of emissions data reported to CDP.

VERIFICATION SCOPE AND CRITERIA

The verification scope is defined as an independent and objective review of the emissions data reported for Boeing’s global organizational level 2020 Scope 1, 2(market based and location based), Scope 3 GHG emissions, as well as GHG saving from Renewable Energy Credits (RECs). The scope 3 Category covered in this verification is business travel.

Assurance level: limited

Verification Criteria/Reporting Protocol

- The World Resources Institute (WRI) and World Business Council for Sustainable Development (WBCSD) GHG Protocol

Verification Protocol

- ISO 14064-3:2006 – Greenhouse Gases Part 3: Specification with Guidance for the Validation and Verification of Greenhouse Gas assertions.

MATERIALITY

The WBCSD/WRI Corporate Accounting and Reporting Standard GHG Protocol sets the materiality threshold at five percent (for both understatements and overstatements) of a Member’s Direct (Scope 1) and Indirect (Scope 2) emissions.

VERIFICATION TEAM

Role	Name
Verifier	Shruthi Poonacha Bachamanda

Technical Reviewer	Weidong Yang
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VERIFICATION PLANNING AND RISK ASSESSMENT

The verification activities and the risk assessment methodologies employed are incorporated in the sampling plan.

VERIFICATION ACTIVITIES AND FINDINGS

The verification team reviewed the emission data report and supporting evidence, focused on the systems and processes in place to collect and compile data, as well as calculation methodology and emissions calculation spreadsheet. The emission factors across all the scopes, which are provided in BoeingGHGInventory-4-21-2021 spreadsheet, were checked using Boeing GHG emissions calculation software. Based on the set of data and documentation that was provided, the verifier conducted a risk analysis and prepared a sampling plan, and site visit agenda.

The remote site visit was conducted in Philadelphia on April 20th, 2021. Based on the sampling plan the verifier reviewed source documentation and data check methodology detailed in table 1 below:

Table 1: Emissions sources and Data Check Methodology

Emissions Sources, by Risk Category	Documents requested	Data Check method used
High Risk		
<p>Scope 1 <u>Stationary Combustion.</u> The below facilities were categorized under High Risk and Medium Risk based on review of the used amount of Natural Gas:</p> <p>Natural Gas BCA - Everett BCA - Auburn BDS - St. Louis, MO BDS - Philadelphia</p>	<p>Document Request: Utility Bills Fuel type and Fuel consumption data Fuel purchase receipts (where not monitored by meters) Fuel Monitoring data Calculation methodology Calculation worksheet Data transfer methodology</p>	<p>Site Visit Teleconference with Xing Wang and Ragan Kothe using ENGIE Insight: trace data in the emissions data report to its origin.</p> <p>Document Review: - Data collection process - Transfer /transcription of data to calculation spreadsheet - Methods used and Formulas inscribed in the calculation spreadsheets.</p>

<p>Scope 1 <u>Mobile Combustion.</u> Five facilities were categorized under High Risk based on review of the consumed amount of fuel (Propane and Motor Gasoline).</p> <p>Jet Fuel BCA - Everett BCA - North Boeing Field BCA - Boeing South Carolina F&AM - Chicago HQ BDS - St. Louis, MO</p>	<p>Document Request: Fuel type and Fuel consumption data Fuel purchase receipts (where not monitored by meters) Fuel Monitoring data Calculation spreadsheet Data collected on Miles travelled and fuel economy Calculation methodology Calculation worksheet Data transfer methodology</p>	<p>Document Review: - Data collection process - Transfer /transcription of data to calculation spreadsheet - Methods used and Formulas inscribed in the calculation spreadsheets.</p>
<p>Scope 1 SF6 BCA - South Park BDS - Development Center</p>	<p>Document Request: Leak Logs</p>	<p>Document Review: Boeing works with a third party HazTrack to identify any chemicals that contains GHG. HazTrack uses the SDS on file for each incoming raw material or product to identify if the materials contain GHG.</p>

<p>Scope 2 <u>Electricity Consumption</u> The below facilities were categorized under High Risk and Medium risk based on review of the amount of Electricity consumed. BDS - St. Louis, MO BCA - Everett BCA - Boeing South Carolina BCA - Auburn BDS - Philadelphia BCA - Frederickson BAA - Fishermans Bend BCA - Portland</p>	<p>Document Request: Utility Bills Calculation methodology Calculation worksheet Data transfer methodology</p>	<p>Teleconference: Teleconference with Xing Wang on April 14 and 15, 2021 Teleconference with Ragan W. Kothe on April 16th, 2021 trace data in the emissions data report to its origin. Document Review: - Data collection process - Transfer /transcription of data to calculation spreadsheet - Methods used and Formulas inscribed in the calculation spreadsheets.</p>
<p>Renewable Energy Credits BCA - Boeing South Carolina Corporate/ET&T - Arizona Data C BCA - Renton BCA - Auburn</p>	<p>Document Request Power purchase agreements (PPEs) REC Certificates</p>	<p>Teleconference: Teleconference with Chunjiang (Stella) Huang. Review of PPEs and REC Certificates and review of the REC split across the Boeing facilities.</p>
<p>Low Risk</p>		
<p>All other sources Boeing Scope 1 fugitive emissions and refrigerants, and emissions calculated for all sites.</p>	<p>Documents Requested: Calculation methodology Calculation worksheet Data transfer methodology</p>	<p>Desk review: - Cross verification of summary values with data report - Review of methodology with the GHG Protocol - Verification of calculation and data spreadsheet.</p>

Scope 3 Business Travel	Documents Requested Calculation methodology Calculation worksheet Data transfer methodology	Desk review: - Cross verification of summary values with data report - Review of methodology with the GHG Protocol - Verification of calculation and data spreadsheet.
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IDENTIFICATION OF EMISSION SOURCES

All the seven Kyoto gases CO₂, CH₄, N₂O, HFCs, PFCs, SF₆ and NF₃ have been reported for the facilities where Boeing has operational control. For each facility the emission sources listed are:

Scope 1: Stationary combustion, mobile combustion and fugitive including refrigerants

Scope 2: Purchased electricity

Scope 3: Business Travel

SITE VISIT

The remote site visit was conducted in Philadelphia on April 20th, 2021. During the site-visit, and various telephone conversations, DNV GL spoke with the Boeing staff as detailed below in Table 2:

Table 2: Site visit meetings and telephone discussions

Name	Title	Functional Responsibility	Discussions
Chunjiang (Stella) Huang	Environmental Engineer	Global Enterprise Sustainability	Overview of data management, inventory collection and review processes, Scope 1, Scope 2 (location based and market based) and Scope 3 optional emissions review of data and methodology. Review of attestations for RECs used in 2020.
Miriam Baril, PE	Site Focal	Boeing BDS-Philadelphia	Input to Enablon for Boeing BDS-Philadelphia facility

Brandon Kahn	Utilities Focal	Boeing BDS-Philadelphia	Sampling of invoices for electricity and natural Gas from Engie Insight system
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The remote site assessment was conducted in Philadelphia manufacturing facility using Webex.

Technology Name	Webex
Name of site personnel supporting remote audit meetings	Miriam Baril, PE, Environmental Engineer Boeing - Philadelphia
List of equipment viewed during remote assessment	Natural Gas meter, electricity meters, diesel generators, propane tanks, Jet fuel, diesel fuel storage, turbines using Jet fuel, Jet fuel storage, Gasoline fuel pumps, Gasoline pump, Chiller north side.
Document review during remote assessment	Propane receipts, diesel receipts, refrigerant usage and Jet fuel logs
Effectiveness of the remote assessment	All the required equipment and documentation were viewed. There were no issues with connection.
Any technical issues faced during the remote audit	No technical issues

VERIFICATION CONCLUSION:

ASSESSMENT OF GHG INFORMATION AND MANAGEMENT SYSTEMS

The management and reporting of GHG data and results for Boeing in 2020 were managed by Chunjiang (Stella) Huang, who is the Enterprise EHS Environmental responsible person for Boeing. She has established a system of reporting whereby designated staff at each facility submits GHG-related information directly to her. Data collection and management for the 2020 inventory was executed using a software called Enablon and a number of data collection methods (including direct measurement and estimations). The Enablon software has inbuilt templates for collecting GHG emission source data from individual sites. The questionnaires include questions on the various fuels and refrigerants used. The majority of significant emissions resulted from Scope 2 (Purchased electricity) and followed by Scope 1 (Natural Gas combustion). Data from these emission sources are derived from transactional records (purchase orders, contracts, invoices, etc.), which is stored in Engie system (to which multiple layers of QA / QC are applied). Data integrity and validity is considered of high quality.

EVALUATION OF COMPLIANCE WITH THE GHG PROGRAM REQUIREMENTS

DNV GL through the verification confirms that the Boeing emissions report is in compliance with WRI/WBSCD Protocol requirements. The organizational boundaries are determined correctly, and no evidence that all emissions sources are not identified and included in the inventory. There was no evidence that the emissions estimate was not accurate. Any errors identified were corrected

by Boeing during the verification process. Over 70% of Scope 1&2 emissions come from Scope 2 Purchased Electricity and Scope 1 natural gas combustion. All electricity and natural gas invoices are provided through the Engie Insight Utility Expense & Data Management System, a software tool used by Boeing for data collection and processing of electricity and natural gas bills. This software enables an auditable system of monthly utility invoices across the majority of the Boeing property assets. Boeing also provided spreadsheets with calculations on the correct use of emissions factors, accurate calculations, and correct GHG inventory reporting.

VERIFICATION OPINION

The Boeing Company

Global Operational Control

<i>o</i>	<i>Scope 1 Emissions</i>	<i>560,000 (MtCO₂e)</i>
<i>o</i>	<i>Scope 2 Emissions (location based)</i>	<i>800,000 (MtCO₂e)</i>
<i>o</i>	<i>Scope 2 Emissions (market based)</i>	<i>625,000 (MtCO₂e)</i>
<i>o</i>	<i>Scope 3 Emissions (Business travel only)</i>	<i>92,000 (MtCO₂e)</i>
<i>o</i>	<i>Renewable Energy Certificate Purchased</i>	<i>392,000 MWh</i>

Based on the processes and procedures conducted with a limited assurance, there is no evidence that these GHG assertions are not materially correct and are not a fair representation of GHG data and information, and have not been prepared in accordance with the calculation methodologies contained in the World Resources Institute and the World Business Council for Sustainable Development (WRI/WBCSD) Greenhouse Gas Protocol.

LIST OF CLARIFICATIONS AND OBSERVATIONS

Sl. No	List of clarifications and Observations	Response	DNV GL comments
#1	Electricity St. Louis The electricity usage for account - 54500-06319 for the months of February, September and October does not match the usage amount reported to corporate GHG Inventory.	The electricity usage is not material and is lower than .1% difference for the St. Louis site	Closed
#2	Philadelphia Annapolis, El Segundo and St Louis Invoices not accessible in Engie. Need to be submitted by site focal	Invoices submitted for: Annapolis, El Segundo and St Louis ELS Raytheon Meter data ELS SCE June 2020 ELS SCE Feb 2020 ELS SCE Nov 2020 Utility 19_exl	Reviewed the received invoices and supporting spreadsheets. Closed.
#3	Invoice breakdown for the Jet Fuel (M) purchased – 2020	Invoice breakdown submitted.	Invoice breakdown matches the log and total matched the usage reported to corporate. Closed
#4	How is the jet fuel amount (M) usage calculated? Please	- As discussed, Jet Fuel usage in aircraft is based on what is distributed from the fuel truck into the aircraft. Attached is the monthly breakdown of that usage.	The supporting documents and description of the procedure provides clarity on

	<p>provide supporting log for the Jet Fuel usage</p>	<p>The Sheet1 tab lists the individual fuel receipts, and the Jet A Usage tab totals them up to get the 127,881 gallons from 2020. The process goes as follows:</p> <ul style="list-style-type: none"> o Jet fuel delivered to Tank 79 o Boeing fuel truck fills up from Tank 79 o Boeing fuel truck deposits fuel from truck into aircraft o After depositing, a fuel receipt is generated by the fuel truck. The total of these fuel receipts add up to the total used in 2020 (127,881). There are no electronic copies of these receipts. o I then subtract out the total gallons for a fully fueled delivered aircraft, which this year was 33,202 gallons, giving the total mobile usage of 94, 679 gallons. 	<p>the jet fuel usage calculation.</p> <p>Closed.</p>
#5	<p>Propane purchase amount is reported as is. Please provide receipts supporting the propane purchased in 2020.</p>	<p>Because of the timing of invoicing getting messed up in late 2019, the number we reported is actually slightly different from what was delivered in 2020. We reported 5944.9 gallons, and it should have been 5,784.7 gallons. Please see the invoices and the calculation spreadsheet attached to show what was actually delivered in 2020.</p>	<p>The propane amount is updated to 5,784.7 gallons in the GHG Inventory.</p> <p>Closed.</p>

Chunjiang (Stella) Huang
The Boeing Company
800 N. 6th St, Renton, WA 98055

04.29.2021

To whom it may concern,

The purpose of this letter is to clarify matters set out in the assurance report. It is not an assurance report and is not a substitute for the assurance report.

This letter and the verifier’s assurance report, including the opinion(s), are addressed to you and are solely for your benefit in accordance with the terms of the contract. We consent to the release of this letter by you to CDP in order to satisfy the terms of CDP disclosure requirements but without accepting or assuming any responsibility or liability on our part to CDP or to any other party who may have access to this letter or our assurance report.

In accordance with our engagement contract with you dated February 9, 2021 (the “contract”) and for the avoidance of doubt, we confirm that our Verification Report – 2020 GHG Emissions Inventory – The Boeing Company to you dated April 28, 2021 (the “assurance report”) incorporated the following matters:

1. Boundaries of the reporting company covered by the assurance report and any known exclusions. *¹

- The Boeing Company’s Scope 1, 2, and 3 (business travel only) greenhouse gas (GHG) emissions inventory for its global locations under its operational control, without known exclusion.

2. Emissions data verified - broken down by Scope 1, Scope 2 and Scope 3 categories with figures given; option to include other relevant data that has been verified with figures.

<i>Boeing Global Operational Control</i>	
Scope 1 Emissions	560,000 (MtCO ₂ e)
Scope 2 Emissions (location based)	800,000 (MtCO ₂ e)
Scope 2 Emissions (market based)	625,000 (MtCO ₂ e)
Scope 3 Emissions (Business travel only)	92,000 (MtCO ₂ e)
Renewable Energy Certificate Purchased	392,000 MWh

*¹ Optional field

3. Period covered (e.g. '12 months to DD MM YY')

1 January 2020 to 31 December 2020

4. Verification standard used

ISO 14064-3:2006 – Greenhouse Gases Part 3: Specification with Guidance for the Validation and Verification of Greenhouse Gas assertions.

5. Assurance opinion (incl. level of assurance and any qualifications)

Limited Assurance

Based on the verification process conducted by DNV, we provide a Limited Assurance of the GHG Assertions for The Boeing Company. DNV found no evidence that the assertion:

- is not materially correct;
- is not a fair representation of the GHG emissions information; and
- is not prepared in accordance with the World Business Council for Sustainable Development (WBCSD) / World Resources Institute (WRI) Greenhouse Gas Protocol (GHG Protocol)

6. Verification provider and accreditations (if relevant)

The Verification provider is DNV.

DNV was not involved in the preparation of any part of Boeing's data or report. We adopt a balanced approach towards all stakeholders when performing our evaluation.

7. Lead verifier name and relevant accreditations/professional membership (if relevant)

Shruthi Poonacha Bachamanda, Lead Verifier, Qualified ISO GHG Verifier

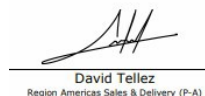
8. This letter should be prepared on the verifier's letterhead or include the signature of the lead verifier (or authorized signatory/ organization responsible for issuing the assurance report / statement) in the box below.



Signature Lead Verifier
(Shruthi Poonacha Bachamanda)



Independent Reviewer
(Weidong Yang)



David Tellez
Region Americas Sales & Delivery (P-A)

Approver
(David Tellez)



Environmentally Certified

Certificate of Registration

Boeing Aerostructures Australia Pty Ltd

ARIN 15103165466

226 Limerick Street, PORT MELBOURNE, VIC, 3207, Australia

operates an

Environmental Management System

which complies with the requirements of:

ISO 14001:2015

The registration covers the design and manufacture of aerospace components

Original Certification: 13 September 2017
Certification/Reissue Date: 2 November 2020

Registration No: AY022-EC
Expiry Date: 13 September 2023

Craig J Uates
Principal
TQCSI International Building Pty Ltd
For the TQCSI Certification Approval Panel

Sean Uates
Managing Director
TQCSI International Building Pty Ltd





Environmentally Certified

Certificate of Registration

Boeing Defence Australia

ABN: 64 006 678 119

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operates an

Environmental Management System

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which complies with the requirements of: @

®V ISO 14001:2015

The registration covers the provision of operations and maintenance activities for the defence, public service and commercial markets, including procurement management, engineering, modification, manufacture and installation, maintenance and product support of (Stems, assets of ent and existing aerospace vehicles; and the conduct of pilot, mission coordination and training for the ADF.

Original Certification: 27 November 2013
Certification/Reissue Date: 13 August 2020

Registration No: AY0128-EC-SC-SC
Expiry Date: 4 June 2022

Craig J Bates
President
TQCS International (Group) Pty Ltd
For the TQCS/ Certification Approval Panel

Sean Bates
Accreditation Manager
TQCS International Pty Ltd

This certificate verifies the original certificate issued and is valid as long as it is displayed as an electronic copy at www.tqcsi.com and surveillance audits are satisfactorily completed. TQCS International Pty Ltd (ABN 59 065 953 92 4) of Quality House, 11 7A Tapleys Hill Road, Hendon, SA, 5014, Australia issues certification subject to the TQCS Rules of Certification.



CERTIFICATE OF REGISTRATION

This is to certify that the management system of:

Boeing Canada Operations Ltd.

Main Site: 99 Murray Park Road
Winnipeg, Manitoba R3J 3M6 Canada

Additional Site: 1345 Redwood Avenue
Winnipeg, Manitoba R2X 0Y9 Canada

has been registered by Intertek as conforming to the requirements of:

ISO 14001:2015

The management system is applicable to:

Main and Additional Site Scope: The design and manufacture of aeronautical products constructed in both metal and composite materials and used on civil and military aircraft applications.

Certificate Number:
0050447

Initial Certification Date:
22 October 2014

Date of Certification Decision:
29 August 2017

Issuing Date:
15 August 2019

Valid Until:
21 October 2020



Intertek

A handwritten signature in black ink, appearing to read "Calin Moldovean".

Calin Moldovean
President, Business Assurance

Intertek Testing Services NA, Inc.,
900 Chelmsford Street,
Lowell, MA 01851.
USA.





Certificate CN15/10393

The management system of

Boeing Tianjin Composites Co., Ltd.

No. 4566 , Hebei Road, Marine Hi-Tech Development Area, Tanggu, Tianjin, P.R. China

has been assessed and certified as meeting the requirements of

ISO 14001:2015

For the following activities

Manufacturing of aero composite secondary structure parts and interiors for commercial aircraft

This certificate is valid from 9 August 2018 until 8 August 2021 and remains valid subject to satisfactory surveillance audits. Recertification audit due a minimum of 60 days before the expiration date Issue 3. Certified since 9 August 2015



Authorised by

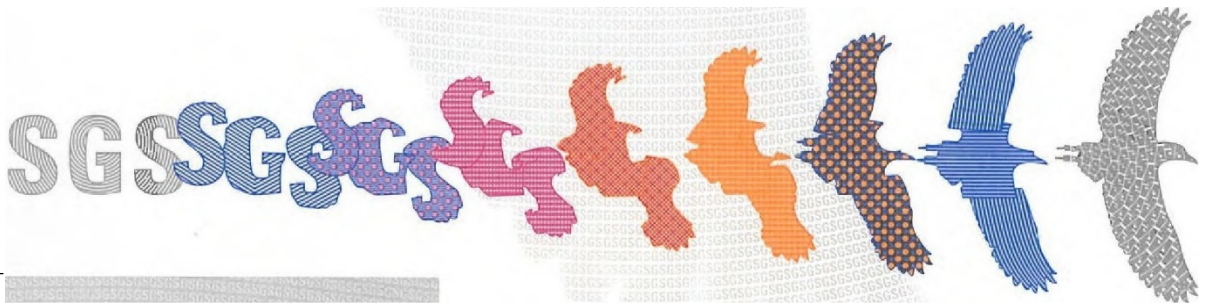


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下述组织

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{£ A}



中国天津市塘沽海洋高新技术开发区河北路 4566 号

的管理体系已经过审核，并被证明符合下述要求

ISO 14001:2015

所涉及的活动范围覆盖

商用飞机用航空复合材料次受力结构件和内饰件的制造

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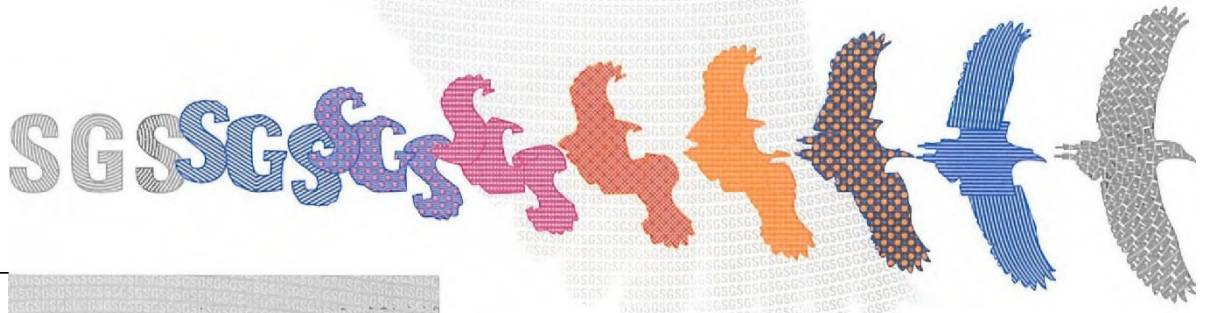


UKAS
MANAGEMENT
SYSTEMS
0005

SGS United Kingdom Ltd
Rossmore Business Park Ellesmere Port Cheshire CH65 3EN UK
I +44 (0)151 350-6666 f +44 (0)151 350-6600 www.sgs.com

HC SGS 1400120150118





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Certificate of Approval

This is to certify that the Management System of:

Boeing United Kingdom Limited
Boeing Defence UK Ltd
Boeing Commercial Aviation Services Europe Ltd
Boeing UK Training and Flight Services Ltd

25 Victoria Street, London, SW1H 0EX, United Kingdom

has been approved by Lloyd's Register to the following standards:

ISO 14001:2015, ISO 45001:2018

Approval number(s): ISO 14001 – 0007418, ISO 45001 – 0007418

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

The scope of this approval is applicable to:

Integration, design, development, modification, maintenance, programme management, delivery and support of systems (both hardware and software) and training services for military and commercial programmes. Production of machined components for aerospace applications. Production of technical documentation and training aids in various media



David Derrick

Area Operations Manager UK & Ireland

Issued by: Lloyd's Register Quality Assurance Limited



001

Certificate Schedule

Location	Activities
25 Victoria Street, London, SW1H 0EX, United Kingdom	ISO 14001:2015, ISO 45001:2018 Integration, design, development, modification, maintenance, programme management, delivery and support of systems (both hardware and software) and training services for military and commercial programmes.
MOD Bicester, Arcnott, Bicester, OX25 1LP, United Kingdom	ISO 14001:2015, ISO 45001:2018 Integration, design, development, modification, maintenance, programme management, delivery and support of systems (both hardware and software) and training services for military and commercial programmes.
Bristol Campus 630,435 & 520 Bristol Business Park,, Coldharbour Lane, Bristol, BS16 1EJ, United Kingdom	ISO 14001:2015, ISO 45001:2018 Integration, design, development, modification, maintenance, programme management, delivery and support of systems (both hardware and software) and training services for military and commercial programmes.
Boeing Flight Services, Crawley Business Quarter, Boeing House, Manor Royal, Crawley, RH10 9AD, United Kingdom	ISO 14001:2015, ISO 45001:2018 Design, development, delivery and assurance of aircrew and maintenance training services, including training delivery infrastructures.
C-17 International Training Centre, Farnborough Airport, Farnborough, GU14 6XA, United Kingdom	ISO 14001:2015, ISO 45001:2018 Design, development, delivery and assurance of aircrew and maintenance training services, including training delivery infrastructures.



001

Certificate Schedule

Location	Activities
Integration House, Rye Close, Ancells Business Park, Fleet, GU51 2QG, United Kingdom	ISO 14001:2015, ISO 45001:2018 Integration, design, development, modification, maintenance, programme management, delivery and support of systems (both hardware and software) and training services for military and commercial programmes.
Aircraft Support Division, Bravo November House, Fareham Road, Gosport, PO13 0AA, United Kingdom	ISO 14001:2015, ISO 45001:2018 Integration, design, development, modification, maintenance, programme management, delivery and support of systems (both hardware and software) and training services for military and commercial programmes.
Aircraft Support Division, Royal Air Force Station, Odiham, Hook, RG29 1QT, United Kingdom	ISO 14001:2015, ISO 45001:2018 Integration, design, development, modification, maintenance, programme management, delivery and support of systems (both hardware and software) and training services for military and commercial programmes.
Boeing Technical Services, Monkswell House, Manse Lane, Knaresborough, HG5 8NQ, United Kingdom	ISO 14001:2015, ISO 45001:2018 Production of technical documentation and training aids in various media.
DCS&S, RAF Waddington, Lincoln, LN5 9NB, United Kingdom	ISO 14001:2015, ISO 45001:2018 Design, development, delivery and assurance of aircrew and maintenance training services, including training delivery infrastructures.



001

Certificate Schedule

Location	Activities
Turing House, Wavendon Business Park, Wavendon, Milton Keynes, MK17 8LX, United Kingdom	ISO 14001:2015, ISO 45001:2018 Integration, design, development, modification, maintenance, programme management, delivery and support of systems (both hardware and software) and training services for military and commercial programmes
RAF Brize Norton, C-17 Field Operations, 300 Globemaster Road, Oxford, OX18 3LX, United Kingdom	ISO 14001:2015, ISO 45001:2018 Integration, design, development, modification, maintenance, programme management, delivery and support of systems (both hardware and software) and training services for military and commercial programmes.
Aircraft Support Division, Almondbank, Perth, PH1 3NX, United Kingdom	ISO 14001:2015, ISO 45001:2018 Integration, design, development, modification, maintenance, programme management, delivery and support of systems (both hardware and software) and training services for military and commercial programmes.
MOD Boscombe Down, Hangar 627, Salisbury, SP4 0JF, United Kingdom	ISO 14001:2015, ISO 45001:2018 Integration, design, development, modification, maintenance, programme management, delivery and support of systems (both hardware and software) and training services for military and commercial programmes.
Boeing Sheffield, Sheffield Business Park, Europa View, Sheffield, S9 1ZA, United Kingdom	ISO 14001:2015, ISO 45001:2018 Production of machined components for aerospace applications.



001

Certificate Schedule

Location	Activities
Army Aviation Centre, MiddleWallop, Stockbridge, SO20 8DY, United Kingdom	ISO 14001:2015, ISO 45001:2018 Design, development, delivery and assurance of aircrew and maintenance training services, including training delivery infrastructures.
Boeing Technical Services, Building 1, Albany Place, Hydeway, Welwyn Garden City, AL7 3BG, United Kingdom	ISO 14001:2015, ISO 45001:2018 Production of technical documentation and training aids in various media.
Aircraft Support Division, Piasecki House, Watercombe Park, Lynx Trading Estate, Yeovil, BA20 2HL, United Kingdom	ISO 14001:2015, ISO 45001:2018 Integration, design, development, modification, maintenance, programme management, delivery and support of systems (both hardware and software) and training services for military and commercial programmes.
Joint Helicopter Command Flying Station Wattisham, Wattisham, Ipswich, IP7 7AT, United Kingdom	ISO 14001:2015, ISO 45001:2018 Design, development, delivery and assurance of aircrew and maintenance training services, including training delivery infrastructures.



001



This is to certify that the Environmental Management System of:

**The Boeing Company - Missile And Weapon Systems
Division, Huntsville, AL**

499 Boeing Blvd
Huntsville AL 35824
United States of America

applicable to:

**The Design, Manufacture, Assembly, Installation and Servicing of Aviation, Defense and
Space Systems.**

has been assessed and approved by
National Quality Assurance, U.S.A., against the provisions of:

ISO 14001:2015

K

Certificate Number: EN18709
EAC Code: 21
Certified Since: October 27, 2008
Valid Until: October 27, 2023
Reissued: October 28, 2020
Cycle Issued: October 28, 2020

For and on behalf of NQA, USA.



This approval is subject to the company maintaining its system to the required standard, which will be monitored by NQA, USA, 289

Great Road, Suite 105, Acton, MA 01720, an accredited organization under the ANSI National Accreditation Board.

MANAGEMENT SYSTEM CERTIFICATE

Certificate No:
41616-2008-AE-USA-ANAB

Initial certification date:
31 October, 2008

Valid:
01 November, 2020 - 31 October, 2023

This is to certify that the management system of

The Boeing Company

5000 East McDowell Road, Mesa, AZ, 85215, USA

has been found to conform to the Environmental Management System standard:

ISO 14001:2015

This certificate is valid for the following scope:

The design, development, manufacture and servicing of aerospace products including deliverable and non-deliverable software and services

Place and date:
Katy, TX, 01 September, 2020



For the issuing office:
DNV GL - Business Assurance
1400 Ravello Drive, Katy, TX, 77449-5164, USA


Sherif Mekkawy
Management Representative

MANAGEMENT SYSTEM CERTIFICATE

Certificate No:
42943-2008-AE-USA-ANAB

Initial certification date:
23 December, 2014

Valid:
22 December, 2020 - 21 December, 2023

This is to certify that the management system of

Boeing S&IS - El Segundo-CA

2260 East Imperial Highway, El Segundo, CA, 90245, USA

has been found to conform to the Environmental Management System standard:

ISO 14001:2015

This certificate is valid for the following scope:

The Design, Manufacture, Integration, and Test of Space Vehicles and The Provision of Associated Technical Services For Government, Commercial and Scientific Uses

Place and date:
Katy, TX, 06 October, 2020



For the issuing office:
DNV GL - Business Assurance
1400 Ravello Drive, Katy, TX, 77449-
5164, USA


Sherif Mekkawy
Management Representative

MANAGEMENT SYSTEM CERTIFICATE

Certificate No:
539 97-2009-AE-USA-ANAB

Initial certification date:
18 May 2009

Valid:
18 May 2018 - 18 May 2021

This is to certify that the management system of

The Boeing Company

5301 Bolsa Avenue, Huntington Beach, CA, 92647, USA

has been found to conform to the Environmental Management System standard:
ISO 14001:2015

This certificate is valid for the following scope:

**Product Design, Process and Material Development and Assembly,
Integration and Testing of Space, Commercial and Military Applications,
Including Communication and Network Applications.**

Place and date:
Katy, TX, 26 April 2018



For the issuing office:
DNV GL Business Assurance
1400 Ravello Drive, Katy, TX, 77449-5164,
USA

Chandran Ilango
Management Representative

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.

MANAGEMENT SYSTEM CERTIFICATE

Certificate No:
42105-2008-AE-USA-ANAB

Initial certification date:
10 November, 2008

Valid:
11 November, 2020 - 10 November, 2023

This is to certify that the management system of

Boeing Spectrolab

12500 Gladstone Avenue, Sylmar, CA, 91342, USA

has been found to conform to the Environmental Management System standard:

ISO 14001:2015

This certificate is valid for the following scope:

The design, manufacture and distribution of photovoltaic, opto electronic and illuminations products

Place and date:
Katy, TX, 29 September, 2020



For the issuing office:
DNV GL - Business Assurance
1400 Ravello Drive, Katy, TX, 77449-5164, USA


Sherif Mekkawy
Management Representative

MANAGEMENT SYSTEM CERTIFICATE

Certificate No:
42106-2008-AE-USA-ANAB

Initial certification date:
10 November, 2008

Valid:
14 April, 2020 - 13 April, 2023

This is to certify that the management system of

Boeing BDS

6300 James S McDonnell Boulevard, St. Louis, MO, 63042, USA
and the sites as mentioned in the appendix accompanying this certificate

has been found to conform to the Environmental Management System standard:
ISO 14001:2015

This certificate is valid for the following scope:

Production of Aircraft and Weapons Systems and Associated Activities

Place and date:
Katy, TX, 28 February, 2020



For the issuing office:
DNV GL - Business Assurance
1400 Ravello Drive, Katy, TX, 77449-5164, USA

Sherif Mekkawy
Management Representative

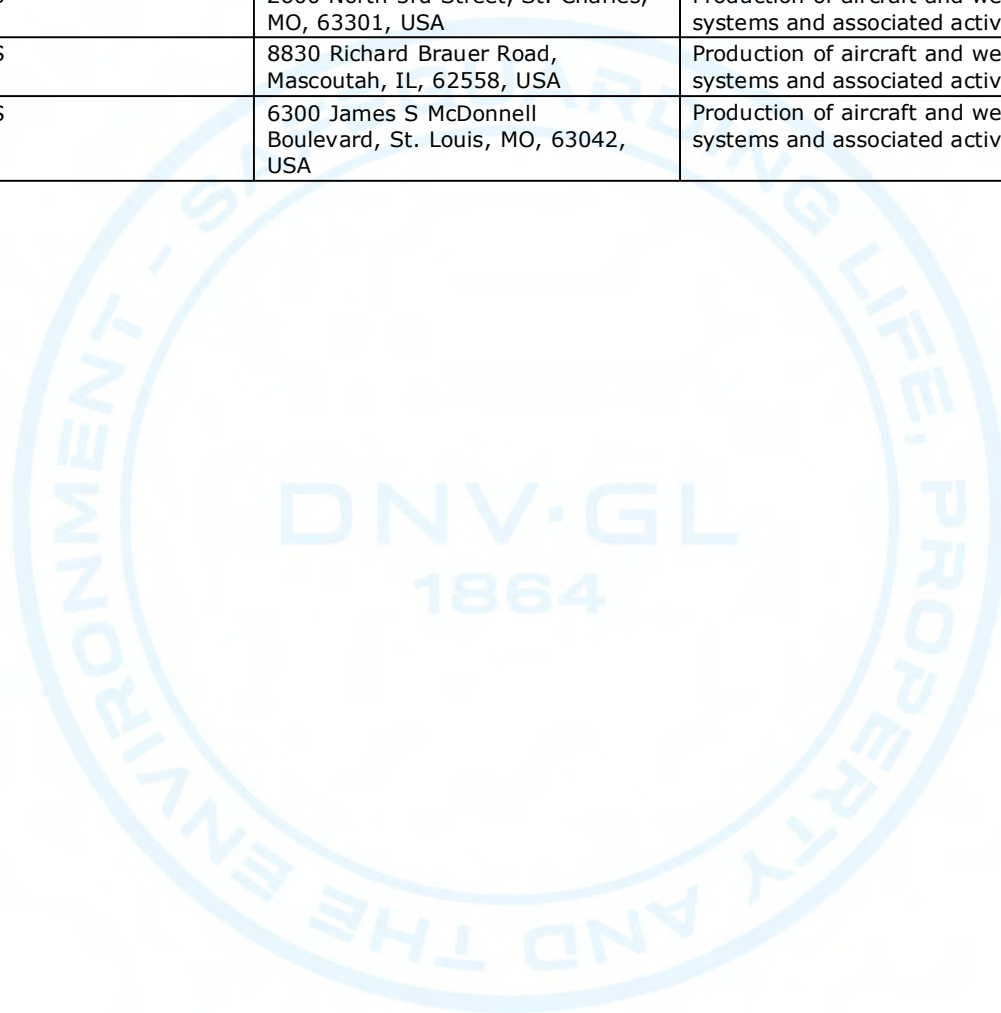
Certificate No: 42106-2008-AE-USA-ANAB
 Place and date: Katy, TX, 28 February, 2020

Appendix to Certificate

Boeing BDS

Locations included in the certification are as follows:

Site Name	Site Address	Site Scope
Boeing BDS	2600 North 3rd Street, St. Charles, MO, 63301, USA	Production of aircraft and weapons systems and associated activities
Boeing BDS	8830 Richard Brauer Road, Mascoutah, IL, 62558, USA	Production of aircraft and weapons systems and associated activities
Boeing BDS	6300 James S McDonnell Boulevard, St. Louis, MO, 63042, USA	Production of aircraft and weapons systems and associated activities



Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.

MANAGEMENT SYSTEM CERTIFICATE

Certificate No.: 9259-2007-AE-USA-Rva

This is to certify that the management system of

Boeing

19000 NE Sandy Blvd
Portland, OR 97230

has been found to conform to the management system standard:

ISO 14001:2015
ISO45001:2018

This certificate is valid for the following Scope:

The design, manufacturing and assembly of aerospace parts and associated support activities

The scope, company name and address are correct as they appear on this draft certificate.

Sg

A handwritten signature in black ink, appearing to be 'R. J. ...', is written over a horizontal line. The signature is stylized and somewhat illegible.

Date 5/23/19

Appendix I to Certificate

Site name

Locations included in the certification are as follows:

Site Name	Site Address	Site Scope
Boeing	19000 NE Sandy Blvd Portland, OR 97230	The design, manufacturing and assembly of aerospace parts and associated support activities



This is to certify that the Environmental Management System of:

Boeing Philadelphia

100 S. Stewart Avenue
P01-28
Ridley Park PA 19078
United States of America

applicable to:

Production & assembly of rotorcraft and fabricating parts for aircraft subassemblies for military customers. Includes PHL site activities, sub-activities, organizations, operation and individuals.

has been assessed and approved by
National Quality Assurance, U.S.A., against the provisions of:

ISO 14001:2015

K

Certificate Number: EN16860
EAC Code: 21
Certified Since: November 12, 2008
Valid Until: November 9, 2023
Reissued: November 10, 2020
Cycle Issued: November 10, 2020

For and on behalf of NQA, USA.



This approval is subject to the company maintaining its system to the required standard, which will be monitored by NQA, USA, 289

Great Road, Suite 105, Acton, MA 01720, an accredited organization under the ANSI National Accreditation Board.



This is to certify that the Environmental Management System of:

Boeing South Carolina

5400 International Blvd.
North Charleston SC 29418
United States of America

Central function listed above. See appendix for additional locations

applicable to:

Aircraft Research, Design, Manufacturing, and Delivery of Commercial Aircraft

has been assessed and approved by
National Quality Assurance, U.S.A., against the provisions of:

ISO 14001:2015

K

For and on behalf of NQA, USA.

Certificate Number: EN16051

EAC Code: 34, 17, 21

Certified Since: November 14, 2012

Valid Until: October 3, 2021

Reissued: July 24, 2018

Cycle Issued: October 4, 2018



This approval is subject to the company maintaining its system to the required standard, which will be monitored by NQA, USA, 289

Great Road, Suite 105, Acton, MA 01720, an accredited organization under the ANSI-ASQ National Accreditation Board.

Certificate of Registration



global assurance

Appendix to Certificate Number: EN16051

Includes Facilities Located at:

Boeing South Carolina

Certificate Number EN16051
5400 International Blvd.
North Charleston SC 29418
United States of America

Aircraft Research, Design, Manufacturing, and
Delivery of Commercial Aircraft

Boeing South Carolina - IRCSC

Certificate Number EN16051
9775 Patriot Blvd
Ladson South Carolina 29456
United States of America

IRCSC: Fabrication and assembly of aircraft interiors

Boeing South Carolina - BR&T Tech Center

Certificate Number EN16051
4249 Crosspoint Dr., Suite N
Ladson South Carolina 29456
United States of America

Research and Development of manufacturing
processes

Boeing South Carolina - PSC

Certificate Number EN16051
8795 Palmetto Commerce Pkwy
Ladson South Carolina 29456
United States of America

Engineering and assembly of Engine Inlets

Certified Since:

Valid Until:

ssued: Cycle
November 14, 2012
Issued:
October 3, 2021
July 24, 2018
October 4, 2018

This approval is subject to the company maintaining its system to the required standard, which will be monitored by NQA, USA, 289 Great Road, Suite 105, Acton, MA 01720, an accredited organization under the ANSI-ASQ National Accreditation Board.

Certificate of Registration



Appendix to Certificate Number: EN16051

Includes Facilities Located at:

Boeing South Carolina - IT - Corporate IT Services
Certificate Number EN16051
4340 Corporate Road
North Charleston South Carolina 29418
United States of America

Boeing South Carolina - IT - Faber IT Services
Certificate Number EN16051
3875 Faber Drive
North Charleston South Carolina 29418
United States of America



Certified Since: November 14, 2012

Valid Until: October 3, 2021

Reissued: July 24, 2018

Cycle Issued: October 4, 2018

This approval is subject to the company maintaining its system to the required standard, which will be monitored by NQA, USA, 289 Great Road, Suite 105, Acton, MA 01720, an accredited organization under the ANSI-ASQ National Accreditation Board.

MANAGEMENT SYSTEM CERTIFICATE

Certificate No:
34364-2008-AE-USA-ANAB

Initial certification date:
26 August, 2008

Valid:
14 October, 2020 - 10 August, 2023

This is to certify that the management system of

The Boeing Company - San Antonio

375 Airlift Drive, San Antonio, TX, 78226, USA

has been found to conform to the Environmental Management System standard:
ISO 14001:2015

This certificate is valid for the following scope:

Maintenance, Repair and Overhaul (MRO) and Production of Aircraft and Related Components

Place and date:
Katy, TX, 14 October, 2020



For the issuing office:
DNV GL - Business Assurance
1400 Ravello Drive, Katy, TX, 77449-5164, USA

Sherif Mekkawy
Management Representative

ACCREDITED UNIT: DNV GL Business Assurance USA, Inc., 1400 Ravello Drive, Katy, TX, 77449, USA. TEL: +1 281-396-1000. www.dnvgcert.com



This is to certify that the Environmental Management System of:

Boeing Salt Lake

1215 North 2200 W est
Salt Lake City UT 84116
United States of America

(Central function listed above. See appendix for additional locations)

applicable to:

The Fabrication and Assembly of Aircraft Parts and Components To Customer Specifications. The Repair of Aircraft Parts and Components

has been assessed and approved by
National Quality Assurance, U.S.A., against the provisions of:

ISO 14001:2015

K

Certificate Number: EN16845
EAC Code: 17
Certified Since: June 6, 2008
Valid Until: May 9, 2023
Reissued: October 30, 2020
Cycle Issued: October 30, 2020

For and on behalf of NQA, USA.



Prior Cycle Exp Date: May 9, 2020

This approval is subject to the company maintaining its system to the required standard, which will be monitored by NQA, USA, 289

Great Road, Suite 105, Acton, MA 01720, an accredited organization under the ANSI National Accreditation Board.

Certificate of Registration



global assurance

Appendix to Certificate Number: EN16845

Includes Facilities Located at:

Boeing Salt Lake

Certificate Number EN16845
1215 North 2200 West
Salt Lake City UT 84116
United States of America

The Fabrication and Assembly of Aircraft Parts and Components To Customer Specifications. The Repair of Aircraft Parts and Components

Prosperity Rd

Certificate Number EN16845
10026 Prosperity Rd
West Jordan UT
United States of America

EHS (Security, ER, Chemical Management, Hazardous Waste Management) Manufacturing (Assembly, Fabrication, Paint, Facilities), Operations (Finance, Project Mgmt., IT), Quality (Engineering, Planning, Tooling), Supplier Management (Ship/Rec, Procurement), Administration and Leadership

North 2200 West

Certificate Number EN16845
1760 North 2200 West
Salt Lake City UT
United States of America

Manufacturing/ Training

Certified Since: June 6, 2008

Valid Until: May 9, 2023

Reissued: October 30, 2020

Cycle Issued: October 30, 2020

This approval is subject to the company maintaining its system to the required standard, which will be monitored by NQA, USA, 289 Great Road, Suite 105, Acton, MA 01720, an accredited organization under the ANSI National Accreditation Board.



This is to certify that the Environmental Management System of:

The Boeing Company

Auburn Site
700 15th Street SW
Auburn WA 98001
United States of America

Applicable to:

The Manufacturing and Assembly of Aerospace Parts and Associated Support Activities

Has been assessed and approved by
National Quality Assurance, U.S.A., against the provisions of:

ISO 14001:2015

K

Certificate Number: EN16908
EAC Code: 17
Certified Since: September 19, 2008
Valid Until: September 14, 2023
Reissued: December 10, 2020
Cycle Issued: December 10, 2020

For and on behalf of NQA, USA.



Prior Cycle Exp Date: September 14, 2020

This approval is subject to the company maintaining its system to the required standard, which will be monitored by NQA, USA, 289 Great Road, Suite 105, Acton, MA 01720, an accredited organization under the ANSI National Accreditation Board.

MANAGEMENT SYSTEM CERTIFICATE

Certificate No:
CE RT-11653-2006-AE-HO U-ANA B

Initial certification date:
01 November, 2006

Valid:
15 September, 2018 - 15 September, 2021

This is to certify that the management system of

Boeing Commercial Airplanes Everett & PDX

3003 West Casino Road, Everett, WA, 98203, USA
and the sites as mentioned in the appendix accompanying this certificate

has been found to conform to the Environmental Management System standard:
ISO 14001:2015

This certificate is valid for the following scope:

**Product Design, Process and Material Development and
Assembly, Integration and Testing of Space, Commercial and
Military Applications, including Communication and Network
Applications.**

Place and date:
Katy, TX, 26 August, 2018



For the issuing office:
DNV GL Business Assurance
1400 Ravello Drive, Katy, TX, 77449-5164,
USA

Chandran Ilango
Management Representative

ACCREDITED UNIT: DNV GL Business Assurance USA, Inc., 1400 Ravello Drive, Katy, TX 77449 USA. TEL:281-396-1000. dnvglcert.com

Certificate No: CERT-11653-2006-AE-HOU-ANAB
 Place and date: Katy, TX, 26 August, 2018

Appendix to Certificate

Boeing Commercial Airplanes Everett & PDX

Locations included in the certification are as follows:

Site Name	Site Address	Site Scope
Boeing Commercial Airplanes Everett & PDX HQ	3003 West Casino Road, Everett, WA, 98203, USA	Product design, process and material development and assembly, integration and testing of space, commercial and military applications, including communication and network applications.
Boeing Commercial Airplanes Everett & PDX - Portland, OR	4635 NE Cornfoot Rd, Portland, OR, 97218, USA	Product design, process and material development and assembly, integration and testing of space, commercial and military applications, including communication and network applications.



This is to certify that the Environmental Management System of:

Boeing - Fredrickson

18001 Canyon Road East
Puyallup WA 98375
United States of America

Applicable to:

Manufacturing and Assembly of Aerospace Parts and Associated Support Activities

Has been assessed and approved by
National Quality Assurance, U.S.A., against the provisions of:

ISO 14001:2015



Certificate Number: EN17190
EAC Code: 17, 21
Certified Since: December 17, 2008
Valid Until: December 12, 2023
Reissued: January 15, 2021
Cycle Issued: January 15, 2021

For and on behalf of NOA, USA.



Prior Cycle Exp Date: December 12, 2020

This approval is subject to the company maintaining its system to the required standard, which will be monitored by NOA, USA, 289 Great Road, Suite 105, Acton, MA 01720, an accredited organization under the ANSI National Accreditation Board.

MANAGEMENT SYSTEM CERTIFICATE

Certificate No:
7 4 4 59-2010-AE-USA-ANAB

Initial certification date:
11 October 2018

Valid:
12 March 2019 - 12 March 2022

This is to certify that the management system of

Boeing Spares Distribution Center

2201 South 142nd Street, Seatac, WA, 98168-3713, USA

has been found to conform to the Environmental Management System standard:
ISO 14001:2015

This certificate is valid for the following scope:

**Receive, Repair/Disposition, Warehouse, Package
And Ship Aircraft Parts, Materials And Installation Kits**

Place and date:
Katy, TX, 02 March 2019



For the issuing office:
DNV GL Business Assurance
1400 Ravello Drive, Katy, TX, 77449-5164,
USA

Chandran Illango
Management Representative

ACCREDITED UNIT: DNV GL Business Assurance USA, Inc., 1400 Ravello Drive, Katy, TX 77449 USA. TEL:281-396-1000. dnvglcert.com