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Contents

II *Non-legislative acts*

REGULATIONS

- ★ **Council Implementing Regulation (EU) 2021/1959 of 11 November 2021 implementing Regulation (EU) 2017/2063 concerning restrictive measures in view of the situation in Venezuela** 1
- ★ **Council Implementing Regulation (EU) 2021/1960 of 11 November 2021 implementing Regulation (EU) 2019/1890 concerning restrictive measures in view of Turkey's unauthorised drilling activities in the Eastern Mediterranean** 11
- ★ **Commission Delegated Regulation (EU) 2021/1961 of 5 August 2021 amending Annex I to Regulation (EU) 2019/631 of the European Parliament and of the Council in order to take into account the evolution of the mass of new passenger cars registered in 2017, 2018 and 2019 ⁽¹⁾** 14
- ★ **Commission Delegated Regulation (EU) 2021/1962 of 12 August 2021 correcting Annex VI to Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures ⁽¹⁾** 16
- ★ **Commission Implementing Regulation (EU) 2021/1963 of 8 November 2021 amending Regulation (EU) No 1321/2014 as regards safety management systems in maintenance organisations and correcting that Regulation ⁽¹⁾** 18
- ★ **Commission Implementing Regulation (EU) 2021/1964 of 11 November 2021 laying down technical information for the calculation of technical provisions and basic own funds for reporting with reference dates from 30 September 2021 until 30 December 2021 in accordance with Directive 2009/138/EC of the European Parliament and of the Council on the taking-up and pursuit of the business of Insurance and Reinsurance ⁽¹⁾** 52

⁽¹⁾ Text with EEA relevance.

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Acts whose titles are printed in light type are those relating to day-to-day management of agricultural matters, and are generally valid for a limited period.

The titles of all other acts are printed in bold type and preceded by an asterisk.

DECISIONS

- ★ **Council Decision (CFSP) 2021/1965 of 11 November 2021 amending Decision (CFSP) 2017/2074 concerning restrictive measures in view of the situation in Venezuela** 148
- ★ **Council Decision (CFSP) 2021/1966 of 11 November 2021 amending Decision (CFSP) 2019/1894 concerning restrictive measures in view of Turkey’s unauthorised drilling activities in the Eastern Mediterranean** 157
- ★ **Commission Implementing Decision (EU) 2021/1967 of 11 November 2021 setting up a mandatory data repository and a mandatory digital information exchange mechanism in accordance with Directive 2002/49/EC of the European Parliament and of the Council ⁽¹⁾** 160

⁽¹⁾ Text with EEA relevance.

II

(Non-legislative acts)

REGULATIONS

COUNCIL IMPLEMENTING REGULATION (EU) 2021/1959**of 11 November 2021****implementing Regulation (EU) 2017/2063 concerning restrictive measures in view of the situation in Venezuela**

THE COUNCIL OF THE EUROPEAN UNION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Council Regulation (EU) 2017/2063 of 13 November 2017 concerning restrictive measures in view of the situation in Venezuela ⁽¹⁾, and in particular Article 17(1) thereof,

Having regard to the proposal from the High Representative of the Union for Foreign Affairs and Security Policy,

Whereas:

- (1) On 13 November 2017, the Council adopted Regulation (EU) 2017/2063.
- (2) On 12 November 2020, the Council, considering the ongoing political, economic, social and humanitarian crisis in Venezuela and the persistent actions undermining democracy, the rule of law and respect for human rights, adopted Decision (CFSP) 2020/1700 ⁽²⁾, which renewed the restrictive measures in place until 14 November 2021, including all designations. On the same day the Council adopted Implementing Regulation (EU) 2020/1696 ⁽³⁾, which amended the statement of reasons for 14 listed persons.
- (3) On 22 February 2021, in view of the continuing grave situation in Venezuela, the Council adopted Implementing Regulation (EU) 2021/275 ⁽⁴⁾, which designated 19 persons.
- (4) The Council has reviewed the restrictive measures in place in accordance with Article 17(4) of Regulation (EU) 2017/2063. Based on that review, the restrictive measures against all persons in the list set out therein should be maintained, and the statement of reasons for 26 persons should be updated.
- (5) These measures do not affect the general population and can be reversed in light of progress made towards the restoration of democracy, the rule of law and respect for human rights in Venezuela.
- (6) Annex IV to Regulation (EU) 2017/2063 should therefore be amended accordingly,

⁽¹⁾ OJ L 295, 14.11.2017, p. 21.

⁽²⁾ Council Decision (CFSP) 2020/1700 of 12 November 2020 amending Decision (CFSP) 2017/2074 concerning restrictive measures in view of the situation in Venezuela (OJ L 381, 13.11.2020, p. 24).

⁽³⁾ Council Implementing Regulation (EU) 2020/1696 of 12 November 2020 implementing Regulation (EU) 2017/2063 concerning restrictive measures in view of the situation in Venezuela (OJ L 381, 13.11.2020, p. 8).

⁽⁴⁾ Council Implementing Regulation (EU) 2021/275 of 22 February 2021 implementing Regulation (EU) 2017/2063 concerning restrictive measures in view of the situation in Venezuela (OJ L 60I, 22.2.2021, p. 1).

HAS ADOPTED THIS REGULATION:

Article 1

Annex IV to Regulation (EU) 2017/2063 is amended as set out in the Annex to this Regulation.

Article 2

This Regulation shall enter into force on the day following that of its publication in the *Official Journal of the European Union*.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

Done at Brussels, 11 November 2021.

For the Council
The President
Z. POČIVALŠEK

In Annex IV to Regulation (EU) 2017/2063, entries 1, 4, 7, 10, 12, 18, 20, 25, 27, 28, 29, 34, 35, 36, 37, 41, 42, 43, 44, 45, 46, 47, 48, 51, 53 and 55 are replaced by the following:

	Name	Identifying information	Reasons	Date of listing
'1.	Néstor Luis REVEROL TORRES	Date of birth: 28 October 1964 Gender: male	Minister for Electrical Energy since October 2020, Vice-President of Public Works and Services and Executive Secretary of the Electrical General Staff since April 2019. Minister for Interior, Justice and Peace from 2016 until October 2020. General in Chief of the Bolivarian National Guard since August 2020. Responsible for serious human rights violations, including the torture of (political) prisoners, and the repression of the democratic opposition in Venezuela, including the prohibition and repression of political demonstrations, committed by security forces under his command.	22.1.2018
4.	Antonio José BENAVIDES TORRES	Date of birth: 13 June 1961 Gender: male	Member of the non-democratically elected National Assembly. Chief of the Capital District (Distrito Capital) Government until January 2018. General Commander of the Bolivarian National Guard until 21 June 2017. Involved in the repression of civil society and democratic opposition in Venezuela, and responsible for serious human rights violations committed by the Bolivarian National Guard under his command. His actions and policies as General Commander of the Bolivarian National Guard, including the Bolivarian National Guard taking the lead in the policing of civilian demonstrations and publicly advocating that military courts should have jurisdiction over civilians, have undermined the rule of law in Venezuela.	22.1.2018
7.	Diosdado CABELLO RONDÓN	Date of birth: 15 April 1963 Gender: male	Member of the non-democratically elected National Assembly, former President of the Constituent Assembly and First Vice-President of the United Socialist Party of Venezuela (PSUV). Involved in undermining democracy and the rule of law in Venezuela, including by using the media to publicly attack and threaten political opposition, other media and civil society.	22.1.2018
10.	Jesús Rafael SUÁREZ CHOURIO	Date of birth: 19 July 1962 Gender: male	President of the Defence and Security Committee of the non-democratically elected National Assembly since January 2021. Former Chief of the General Staff of the Commander-in-Chief of the Armed Forces (between July 2019 and September 2020). Former Commander in Chief of the Venezuelan Bolivarian National Army (until July 2019). Former General Commander of the Venezuelan Bolivarian National Army and former Commander of Venezuela's Comprehensive Defence Region of the Central Zone (REDI Central). Responsible for serious human rights violations by forces under his command during his tenure as General Commander of the Venezuelan Bolivarian National Army, including the use of excessive force and the mistreatment of detainees. He has targeted the democratic opposition and supported the use of military courts to try civilian protestors.	25.6.2018

	Name	Identifying information	Reasons	Date of listing
12.	Delcy Eloina RODRÍGUEZ GÓMEZ	Date of birth: 18 May 1969 Gender: female	Vice-President of Venezuela, Minister of the Economy, Finances and Trade. Former President of the illegitimate Constituent Assembly and former member of the Presidential Commission for the illegitimate National Constituent Assembly. Her actions in the Presidential Commission and then as President of the illegitimate Constituent Assembly have undermined democracy and the rule of law in Venezuela, including usurping the powers of the National Assembly and using them to target the opposition and to prevent them from taking part in the political process.	25.6.2018
18.	Xavier Antonio MORENO REYES	Gender: male	Secretary-General of the National Electoral Council (CNE) from 2009 until June 2020. In that role, Moreno Reyes facilitated, legitimised and gave credibility to CNE decisions, since the Secretary-General of the CNE has a role in agenda-setting and formalising decisions. Moreno Reyes remained Secretary-General of CNE while democracy was severely undermined and the independent role of the CNE within the electoral process was compromised. He is therefore responsible for undermining democracy in Venezuela, including facilitating the establishment of the illegitimate Constituent Assembly and the manipulation of the electoral process.	25.6.2018
20.	Rafael Ramón BLANCO MARRERO	Date of birth: 28 February 1968 ID number: V-6250588 Gender: male	Division General of the Venezuelan Bolivarian National Army since 5 July 2019. Former deputy Director of the Directorate-General of Military Counter-Intelligence (Dirección General de Contrainteligencia Militar (DGCIM)). Responsible for serious human rights violations, including torture, the use of excessive force and the mistreatment of detainees in DGCIM facilities, that were committed by DGCIM officials under his command. Linked to the death of Captain Acosta.	27.9.2019
25.	Hannover Esteban GUERRERO MIJARES	Date of birth: 14 January 1971 Gender: male	Second Commander and Chief of Staff of the 35th Military Police Brigade since August 2020. Head of Investigations at the Directorate-General of Military Counter-Intelligence (Dirección General de Contrainteligencia Militar (DGCIM)) from at least April 2019 to August 2019. As Head of Investigations, he supervised the DGCIM facility in Boleita. Responsible for serious human rights violations, including torture, the use of excessive force and the ill-treatment of detainees committed by himself and by officials under his command, particularly in Boleita. Linked to the death of Captain Acosta.	27.9.2019
27.	Gladys DEL VALLE REQUENA	Date of birth: 9 November 1952 Place of birth: Puerto Santo, Sucre, Venezuela ID number: V-4114842 Gender: female	Member of the non-democratically elected National Assembly and former member and the Second Vice-President of the non-recognised National Constituent Assembly (ANC). In her leading role in the non-recognised ANC, she has undermined democracy and the rule of law in Venezuela including by signing the decree that stripped the president of the National Assembly of Venezuela, Juan Guaidó, of his parliamentary immunity.	29.6.2020

	Name	Identifying information	Reasons	Date of listing
28.	Tania Valentina DÍAZ GONZÁLEZ	Date of birth: 18 June 1963 Place of birth: Caracas, Distrito Capital, Venezuela ID number: V-6432672 Gender: female	Member of the non-democratically elected National Assembly and former First Vice-President of the non-recognised National Constituent Assembly (ANC). In her leading role in the non-recognised ANC she has undermined democracy and the rule of law in Venezuela, including by signing the decree that stripped the president of the National Assembly of Venezuela, Juan Guaidó, of his parliamentary immunity.	29.6.2020
29.	Elvis Eduardo HIDROBO AMOROSO	Date of birth: 4 August 1963 Place of birth: Caracas, Distrito Capital, Venezuela ID number: V-7659695 Gender: male	Comptroller General, since 23 October 2018, and former First and Second Vice-President of the non-recognised National Constituent Assembly (ANC). His actions have undermined democracy and the rule of law in Venezuela, including by banning opposition members from holding public office for 15 years and leading the non-recognised ANC, signing the 'law against hatred', justifying the removal of a legally-elected opposition governor and banning Juan Guaidó from running for any public office.	29.6.2020
34.	Luis Eduardo PARRA RIVERO	Date of birth: 7 July 1978 ID number: V-14211633 Gender: male	Member of the non-democratically elected National Assembly. As a member of the National Assembly elected in 2015, he staged his election as President of the National Assembly on 5 January 2020, thereby undermining democracy and the rule of law in Venezuela. The election took place while entry of several parliamentarians to the premises of the National Assembly was blocked by military police, and without a quorum being reached. Therefore, opposition members had to organise themselves outside of the premises of the National Assembly to re-elect Juan Guaidó as its President. Shortly after the staged election of Parra Rivero, supported by the regime's political party (PSUV), Parra Rivero was welcomed by Maduro and the non-recognised National Constituent Assembly (ANC).	29.6.2020
35.	Franklyn Leonardo DUARTE	Date of birth: 15 May 1977 ID number: V-3304045 Gender: male	Member of the non-democratically elected National Assembly. Former member and illegitimately elected first Vice-President of the National Assembly elected in 2015. As a member of the National Assembly elected in 2015, he staged his election as the first Vice-President of the National Assembly on 5 January 2020, thereby undermining democracy and the rule of law in Venezuela. The election took place while entry of several parliamentarians to the premises of the National Assembly was blocked by military police, and without a quorum being reached. Therefore, opposition members had to organise themselves outside of the premises of the National Assembly to re-elect Juan Guaidó as its President. Shortly after the staged election of Duarte, supported by the regime's political party (PSUV), the election of the Board of Directors of the National Assembly was welcomed by Maduro and the non-recognised National Constituent Assembly (ANC).	29.6.2020

	Name	Identifying information	Reasons	Date of listing
36.	José Gregorio NORIEGA FIGUEROA	Date of birth: 21 February 1969 ID number: V-8348784 Gender: male	Member of the non-democratically elected National Assembly. Former member and illegitimately elected second Vice-President of the National Assembly elected in 2015. Illegitimately appointed director of the ad-hoc board of the political party Voluntad Popular. As a member of the National Assembly elected in 2015, he staged his election as the second Vice-President of the National Assembly on 5 January 2020, thereby undermining democracy and the rule of law in Venezuela. The election took place while entry of several parliamentarians to the premises of the National Assembly was blocked by military police, and without a quorum being reached. Therefore, opposition members had to organise themselves outside of the premises of the National Assembly to re-elect Juan Guaidó as its President. Shortly after the staged election of Noriega, supported by the regime's political party (PSUV), the election of the Board of Directors of the National Assembly was welcomed by Maduro and the non-recognised National Constituent Assembly (ANC). In July 2020, Noriega, helped by the Venezuelan Supreme Court of Justice (Tribunal Supremo de Justicia (TSJ)), illegitimately took over the leadership of the political party Voluntad Popular, thereby further undermining democracy in Venezuela.	29.6.2020
37.	Remigio CEBALLOS ICHASO	Date of birth: 1 May 1963 ID-number: V-6557495 Gender: male	Former commander of the Operational and Strategic Command of the Bolivarian National Armed Forces of Venezuela (Comando Estratégico Operacional Fuerzas Armadas Nacionales Bolivarianas (CEOFANB)), the highest organ in the Venezuelan Armed Forces (June 2017–July 2021). CEOFANB controls the Bolivarian National Armed Forces (FANB) and the Bolivarian National Guard. CEOFANB is also responsible for coordinating FANB interventions in demonstrations. In his position as commander of CEOFANB, he was responsible for serious human rights violations, including the use of excessive force and inhuman and degrading treatment by officials of the FANB and by subordinate forces under his command, including the Bolivarian National Guard. Various sources, including the Independent International Fact-Finding Mission on the Bolivarian Republic of Venezuela, attribute human rights violations to FANB and the Bolivarian National Guard.	22.2.2021
41.	Luis Fernando DAMIANI BUSTILLOS	Date of birth: 27 April 1946 Gender: male	Judge of the Constitutional Chamber of the Supreme Court (Tribunal Supremo de Justicia (TSJ)). As a member of the Constitutional Chamber of the Supreme Court, he is responsible for actions, statements and rulings that have usurped the constitutional powers of the National Assembly and undermined the opposition's electoral rights including the unilateral appointment by the Supreme Court of the National Electoral Council (Consejo Nacional Electoral (CNE)) in June 2020 and the suspension and unilateral replacement of the leadership of three of the main democratic opposition parties in June and July 2020, as well as the extension of the ruling on Acción Democrática for one more year in May 2021. His actions have therefore undermined democracy and the rule of law in Venezuela, and he has supported and facilitated the undermining of democracy and the rule of law by the executive branch.	22.2.2021

	Name	Identifying information	Reasons	Date of listing
42.	Lourdes Benicia SUÁREZ ANDERSON	Date of birth: 7 March 1965 Gender: female	President of the Constitutional Chamber and first Vice-president of the Supreme Court since 5 February 2021. Judge of the Constitutional Chamber of the Supreme Court (Tribunal Supremo de Justicia (TSJ)) since December 2005. As a member of the Constitutional Chamber of the Supreme Court, she is responsible for actions, statements and rulings that have usurped the constitutional powers of the National Assembly and undermined the opposition's electoral rights including the unilateral appointment by the Supreme Court of the National Electoral Council (Consejo Nacional Electoral (CNE)) in June 2020 and the suspension and unilateral replacement of the leadership of three of the main democratic opposition parties in June and July 2020, as well as the extension of the ruling on Acción Democrática for one more year in May 2021. Her actions have therefore undermined democracy and the rule of law in Venezuela, and she has supported and facilitated the undermining of democracy and the rule of law by the executive branch.	22.2.2021
43.	Calixto Antonio ORTEGA RÍOS	Date of birth: 12 October 1950 Gender: male	Judge of the Constitutional Chamber of the Supreme Court (Tribunal Supremo de Justicia (TSJ)). As a member of the Constitutional Chamber of the Supreme Court, he is responsible for actions, statements and rulings that have usurped the constitutional powers of the National Assembly and undermined the opposition's electoral rights including the unilateral appointment by the Supreme Court of the National Electoral Council (Consejo Nacional Electoral (CNE)) in June 2020 and the suspension and unilateral replacement of the leadership of three of the main democratic opposition parties in June and July 2020, as well as the extension of the ruling on Acción Democrática for one more year in May 2021. His actions have therefore undermined democracy and the rule of law in Venezuela, and he has supported and facilitated the undermining of democracy and the rule of law by the executive branch.	22.2.2021
44.	René Alberto DEGRAVES ALMARZA	Gender: male	Judge of the Constitutional Chamber of the Supreme Court (Tribunal Supremo de Justicia (TSJ)). As a member of the Constitutional Chamber of the Supreme Court, he is responsible for actions, statements and rulings that have usurped the constitutional powers of the National Assembly and undermined the opposition's electoral rights including the unilateral appointment by the Supreme Court of the National Electoral Council (Consejo Nacional Electoral (CNE)) in June 2020 and the suspension and unilateral replacement of the leadership of three of the main democratic opposition parties in June and July 2020, as well as the extension of the ruling on Acción Democrática for one more year in May 2021. His actions have therefore undermined democracy and the rule of law in Venezuela, and he has supported and facilitated the undermining of democracy and the rule of law by the executive branch.	22.2.2021

	Name	Identifying information	Reasons	Date of listing
45.	Arcadio DELGADO ROSALES	Date of birth: 23 September 1954 Gender: male	Judge and Vice-President of the Constitutional Chamber of the Supreme Court (Tribunal Supremo de Justicia (TSJ)). As a member of the Constitutional Chamber of the Supreme Court, he is responsible for actions, statements and rulings that have usurped the constitutional powers of the National Assembly and undermined the opposition's electoral rights including the unilateral appointment by the Supreme Court of the National Electoral Council (Consejo Nacional Electoral (CNE)) in June 2020 and the suspension and unilateral replacement of the leadership of three of the main democratic opposition parties in June and July 2020, as well as the extension of the ruling on Acción Democrática for one more year in May 2021. His actions have therefore undermined democracy and the rule of law in Venezuela, and he has supported and facilitated the undermining of democracy and the rule of law by the executive branch.	22.2.2021
46.	Carmen Auxiliadora ZULETA DE MERCHÁN	Date of birth: 13 December 1947 Gender: female	Judge of the Constitutional Chamber of the Supreme Court (Tribunal Supremo de Justicia (TSJ)). As a member of the Constitutional Chamber of the Supreme Court, she is responsible for actions, statements and rulings that have usurped the constitutional powers of the National Assembly and undermined the opposition's electoral rights including the unilateral appointment by the Supreme Court of the National Electoral Council (Consejo Nacional Electoral (CNE)) in June 2020 and the suspension and unilateral replacement of the leadership of three of the main democratic opposition parties in June and July 2020, as well as the extension of the ruling on Acción Democrática for one more year in May 2021. Her actions have therefore undermined democracy and the rule of law in Venezuela, and she has supported and facilitated the undermining of democracy and the rule of law by the executive branch.	22.2.2021
47.	Indira Maira ALFONZO IZAGUIRRE	Date of birth: 29 April 1968 Place of birth: La Guaira (La Guaira State, Venezuela) ID-number: V-6978710 Gender: female	President of the Electoral Chamber of the Supreme Court (Tribunal Supremo de Justicia (TSJ)) since May 2021. Former chairwoman of the National Electoral Council (Consejo Nacional Electoral (CNE)), appointed on 13 June 2020. Former member of the Electoral Chamber and Plenary Chamber of the Supreme Court (TSJ), Second Vice-Chairwoman of the TSJ from 2015 until 24 February 2017, Vice-Chairwoman of the TSJ from 24 February 2017 until 12 June 2020. As member of the Electoral Chamber of the TSJ, Alfonso Izaguirre is responsible for the actions taken against the then newly elected National Assembly in December 2015, resulting in the impossibility for the National Assembly to exert its legislative power. Moreover, she accepted her appointment as the chairwoman of the CNE in June 2020 by the TSJ although this prerogative belongs to the National Assembly. In that role she prepared and supervised the non-democratic elections of the National Assembly held on 6 December 2020 and participated in the change of 30 June 2020 to the electoral norms for those elections, without formally leaving the TSJ (temporary permit to integrate the CNE). After the renewal of the CNE in May 2021, she returned to the TSJ. Her actions have therefore undermined democracy and the rule of law in Venezuela.	22.2.2021

	Name	Identifying information	Reasons	Date of listing
48.	Leonardo Enrique MORALES POLEO	Gender: male	Former Vice-President of the National Electoral Council (Consejo Nacional Electoral (CNE)) and President of the Political Participation and Financing Commission (August 2020–May 2021). Morales Poleo was appointed Vice-President of the CNE and President of the Political Participation and Financing Commission on 7 August 2020 by the Supreme Court (Tribunal Supremo de Justicia (TSJ)) although this prerogative belongs to the National Assembly. Moreover, just prior to his appointment he served in the Advanced Progressive Party (Avanzada Progresista). As member of the CNE, he fully took part in the supervision of the electoral process that led to the non-democratic elections of the National Assembly on 6 December 2020. His actions have therefore undermined democracy and the rule of law in Venezuela.	22.2.2021
51.	Carlos Ramón Enrique CARVALLO GUEVARA	ID-number: V-10132041 Gender: male	President of state enterprise Corporación Ecosocialista Ezequiel Zamora (CORPOEZ) since March 2021. Division General, and Deputy Director of the Directorate-General of Military Counter-Intelligence (Dirección General de Contrainteligencia Militar (DGCIM)) from 21 August 2020 until 11 March 2021. Successor of General Rafael Ramón Blanco Marrero. Previously, Carvallo Guevara served for the DGCIM in Los Andes region and held an upper rank position in the Bolivarian National Guard. Responsible for serious human rights violations in Venezuela committed by DGCIM officials under his command. In the recently published findings of the Independent International Fact-Finding Mission on the Bolivarian Republic of Venezuela, DGCIM is characterised as an institution directly responsible for carrying out severe human rights violations.	22.2.2021
53.	Carlos Enrique TERÁN HURTADO	ID-number: V-8042567 Gender: male	Brigadier General since 5 July 2019 and head of the Special Directorate of Criminal Investigation of the Directorate-General of Military Counter-Intelligence (Dirección General de Contrainteligencia Militar (DGCIM)) from 2019 until 2021. In previous functions, Brigadier General Terán Hurtado served as head of the police in Falcón state and head of DGCIM in Táchira state. Responsible for serious human rights violations, including cruel and inhumane treatment of detainees, committed by DGCIM officials under his command. In the detailed findings of the Independent International Fact-Finding Mission on the Bolivarian Republic of Venezuela, Brigadier General Terán Hurtado is specifically pointed out as one of the responsible actors, and is linked to the captain de la Sotta case.	22.2.2021

	Name	Identifying information	Reasons	Date of listing
55.	Douglas Arnolando RICO GONZÁLEZ	Date of birth: 28 September 1969 ID-number: V-6864238 Gender: male	Director of the Bureau for Scientific, Criminal, and Forensic Investigations (Cuerpo de Investigaciones Científicas, Penales y Criminalísticas (CICPC)) since 5 February 2016. Previously, he acted as CICPC deputy director. Responsible for serious human rights violations, by CICPC officials under his authority. The report of the Independent International Fact-Finding Mission on the Bolivarian Republic of Venezuela characterises CICPC as an institution that commits systematic human rights violations in Venezuela. CICPC is also involved in extra-judicial killings, according to the report of the United Nations High Commissioner for Human Rights released on 16 June 2021.	22.2.2021.'

COUNCIL IMPLEMENTING REGULATION (EU) 2021/1960
of 11 November 2021
implementing Regulation (EU) 2019/1890 concerning restrictive measures in view of Turkey's
unauthorised drilling activities in the Eastern Mediterranean

THE COUNCIL OF THE EUROPEAN UNION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Council Regulation (EU) 2019/1890 of 11 November 2019 concerning restrictive measures in view of Turkey's unauthorised drilling activities in the Eastern Mediterranean ⁽¹⁾, and in particular Article 12(1) thereof,

Having regard to the proposal from the High Representative of the Union for Foreign Affairs and Security Policy,

Whereas:

- (1) On 11 November 2019, the Council adopted Regulation (EU) 2019/1890.
- (2) On the basis of a review of the measures, the entries in the list of natural and legal persons, entities or bodies set out in Annex I to Regulation (EU) 2019/1890 should be updated.
- (3) Annex I to Regulation (EU) 2019/1890 should be amended accordingly,

HAS ADOPTED THIS REGULATION:

Article 1

Annex I to Regulation (EU) 2019/1890 is amended as set out in the Annex to this Regulation.

Article 2

This Regulation shall enter into force on the day following that of its publication in the *Official Journal of the European Union*.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

Done at Brussels, 11 November 2021.

For the Council
The President
Z. POČIVALŠEK

⁽¹⁾ OJ L 291, 12.11.2019, p. 3.

ANNEX

In Annex I to Regulation (EU) 2019/1890, entries 1 and 2 are replaced by the following:

	Name	Identifying information	Reasons	Date of listing
'1.	Mehmet Ferruh AKALIN	Date of birth: 9.12.1960 Passport No or ID: 13571379758 Nationality: Turkish Gender: male	Mehmet Ferruh Akalın is Vice-President (Assistant General Manager) and member of the Board of Directors of the Turkish Petroleum Corporation (TPAO). He is the head of TPAO's Exploration Department. In his capacity as TPAO Vice-President and head of its Exploration Department, Mehmet Ferruh Akalın is responsible for planning, directing and implementing TPAO's offshore hydrocarbon exploration activities. Those include TPAO's drilling activities, which have not been authorised by the Republic of Cyprus, as set out below. Those unauthorised drilling activities were carried out by: (a) the TPAO drilling vessel Yavuz in the territorial sea of the Republic of Cyprus between July and September 2019; (b) the TPAO drilling vessel Yavuz in an area of the exclusive economic zone of the Republic of Cyprus notified by it to the United Nations and delimited in an agreement with Egypt, between October 2019 and January 2020; (c) the TPAO drilling vessel Yavuz in an area of the exclusive economic zone of the Republic of Cyprus notified by it to the United Nations and delimited in an agreement with Egypt, as well as an agreement with Israel, between January and April 2020; (d) the TPAO drilling vessel Yavuz in an area of the exclusive economic zone of the Republic of Cyprus notified by it to the United Nations and delimited in an agreement with Egypt, between April and October 2020; (e) the TPAO drilling vessel Fatih in an area of the exclusive economic zone of the Republic of Cyprus notified by it to the United Nations, in close proximity to its territorial sea, between November 2019 and January 2020; (f) the TPAO drilling vessel Fatih in a western area of the exclusive economic zone of the Republic of Cyprus notified by it to the United Nations, between May and November 2019.	27.2.2020

	Name	Identifying information	Reasons	Date of listing
2.	Ali Coscun NAMOGLU	Date of birth: 27.11.1956 Passport No or ID: 11096919534 Nationality: Turkish Gender: male	Ali Coscun Namoglu is the Deputy Director of the Exploration Department of the Turkish Petroleum Corporation (TPAO). In that capacity, Ali Coscun Namoglu is involved in planning, directing and implementing TPAO's offshore hydrocarbon exploration activities. Those include TPAO's drilling activities, which have not been authorised by Republic of Cyprus as set out below. Those unauthorised drilling activities were carried out by: (a) the TPAO drilling vessel Yavuz in the territorial sea of the Republic of Cyprus between July and September 2019; (b) the TPAO drilling vessel Yavuz in an area of the exclusive economic zone of the Republic of Cyprus notified by it to the United Nations and delimited in an agreement with Egypt, between October 2019 and January 2020; (c) the TPAO drilling vessel Yavuz in an area of the exclusive economic zone of the Republic of Cyprus notified by it to the United Nations and delimited in an agreement with Egypt, as well as an agreement with Israel, between January 2020 and April 2020; (d) the TPAO drilling vessel Yavuz in an area of the exclusive economic zone of the Republic of Cyprus notified by it to the United Nations and delimited in an agreement with Egypt, between April and October 2020; (e) the TPAO drilling vessel Fatih in an area of the exclusive economic zone of the Republic of Cyprus notified by it to the United Nations, in close proximity to its territorial sea, between November 2019 and January 2020; (f) the TPAO drilling vessel Fatih in a western area of the exclusive economic zone of the Republic of Cyprus notified by it to the United Nations, between May and November 2019.	27.2.2020'

COMMISSION DELEGATED REGULATION (EU) 2021/1961**of 5 August 2021****amending Annex I to Regulation (EU) 2019/631 of the European Parliament and of the Council in order to take into account the evolution of the mass of new passenger cars registered in 2017, 2018 and 2019****(Text with EEA relevance)**

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Regulation (EU) 2019/631 of the European Parliament and of the Council of 17 April 2019 setting CO₂ emission performance standards for new passenger cars and for new light commercial vehicles, and repealing Regulations (EC) No 443/2009 and (EU) No 510/2011 ⁽¹⁾, and in particular Article 14(2) thereof,

Whereas:

- (1) The M_0 value for the years 2022, 2023 and 2024 referred to in Article 14(1), point (a) should be established on the basis of the average mass in running order of all new passenger cars registered in the Union in 2017, 2018 and 2019.
- (2) Based on the values specified in Commission Implementing Decisions (EU) 2019/582 ⁽²⁾, (EU) 2020/1035 ⁽³⁾ and (EU) 2021/973 ⁽⁴⁾, weighted according to the number of new registrations in each of those years, the average mass in running order of new passenger cars registered in the calendar years 2017, 2018 and 2019 was 1 398,50 kg.
- (3) The specific emission targets for manufacturers of new passenger cars should therefore, for the calendar years 2022, 2023 and 2024, be calculated in accordance with the formula set out in Part A, point 4 of Annex I to Regulation (EU) 2019/631, using as M_0 the value 1 398,50.
- (4) Regulation (EU) 2019/631 should therefore be amended accordingly,

HAS ADOPTED THIS REGULATION:

Article 1

In Part A, point 4 of Annex I to Regulation (EU) 2019/631, the entry M_0 is replaced by the following:

' M_0 is 1 379,88 in 2021 and 1 398,50 in 2022, 2023 and 2024'.

⁽¹⁾ OJ L 111, 25.4.2019, p. 13.

⁽²⁾ Commission Implementing Decision (EU) 2019/582 of 3 April 2019 confirming or amending the provisional calculation of the average specific emissions of CO₂ and specific emissions targets for manufacturers of new light commercial vehicles for the calendar year 2017 and for the Volkswagen pool including its members for the calendar years 2014, 2015 and 2016 pursuant to Regulation (EU) No 510/2011 of the European Parliament and of the Council (OJ L 100, 11.4.2019, p. 47).

⁽³⁾ Commission Implementing Decision (EU) 2020/1035 of 3 June 2020 confirming or amending the provisional calculation of the average specific emissions of CO₂ and specific emissions targets for manufacturers of passenger cars and light commercial vehicles for the calendar year 2018 pursuant to Regulation (EU) 2019/631 of the European Parliament and of the Council (OJ L 227, 16.7.2020, p. 37).

⁽⁴⁾ Commission Implementing Decision (EU) 2021/973 of 1 June 2021 confirming or amending the provisional calculation of the average specific emissions of CO₂ and the specific emissions targets for manufacturers of passenger cars and light commercial vehicles for the calendar year 2019 and, for the passenger car manufacturer Dr Ing. h.c. F. Porsche AG and the Volkswagen pool, for the calendar years 2014 to 2018 pursuant to Regulation (EU) 2019/631 of the European Parliament and of the Council (OJ L 215, 17.6.2021, p. 1).

Article 2

This Regulation shall enter into force on the twentieth day following that of its publication in the *Official Journal of the European Union*.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

Done at Brussels, 5 August 2021.

For the Commission
The President
Ursula VON DER LEYEN

COMMISSION DELEGATED REGULATION (EU) 2021/1962**of 12 August 2021****correcting Annex VI to Regulation (EC) No 1272/2008 of the European Parliament and of the Council
on classification, labelling and packaging of substances and mixtures****(Text with EEA relevance)**

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 ⁽¹⁾, and in particular Article 37(5) thereof,

Whereas:

- (1) Verification has revealed errors in Annex VI to Regulation (EC) No 1272/2008. Commission Delegated Regulation (EU) 2020/217 ⁽²⁾, which amended that Annex, added a number of substances in Table 3 of Part 3 thereof. The entries concerning the substances pentapotassium 2,2',2'',2''',2''''(ethane-1,2-diyl)nitriolo)pentaacetate, N-carboxymethyliminobis(ethylenenitriolo)tetra (acetic acid) and pentasodium (carboxylatomethyl)iminobis(ethylenenitriolo)tetraacetate contain errors related to the signal word. Those substances are classified, inter alia, as specific target organ toxicant repeated exposure category 2 and should therefore be labelled by using the signal word 'Warning' corresponding to the signal word code 'Wng' in accordance with Table 3.9.5 of Part 3 of Annex I to Regulation (EC) No 1272/2008. Delegated Regulation (EU) 2020/217 however mistakenly introduced the signal word code 'Dgr' (an abbreviation of 'Danger') for those substances. Those errors should be corrected.
- (2) Regulation (EC) No 1272/2008 should therefore be corrected accordingly.
- (3) As the provisions of Delegated Regulation (EU) 2020/217 containing the mistake apply from 1 October 2021, the correction thereof should also apply from that date.
- (4) Similarly, in order to reflect the provisions of Delegated Regulation (EU) 2020/217, suppliers should be allowed to apply the corrections made by this Regulation to substances and mixtures before its date of application on a voluntary basis.
- (5) Suppliers should not be required to change the labels and packages of substances and mixtures which have been placed on the market before the entry into force of this Regulation in accordance with Regulation (EC) No 1272/2008, to avoid unnecessary costs. As the erroneous signal word code corresponds to a more severe hazard class maintaining the corresponding signal word on the label does not decrease the level of protection of human health,

HAS ADOPTED THIS REGULATION:

Article 1

The signal word code 'Dgr' in the seventh column 'Pictogram, Signal Word Code(s)' of Table 3 in Part 3 of Annex VI to Regulation (EC) No 1272/2008 regarding the entries concerning pentapotassium 2,2',2'',2''',2''''(ethane-1,2-diyl)nitriolo)pentaacetate, N-carboxymethyliminobis(ethylenenitriolo)tetra (acetic acid) and pentasodium (carboxylatomethyl)iminobis(ethylenenitriolo)tetraacetate is replaced by the signal word code 'Wng'.

⁽¹⁾ OJ L 353, 31.12.2008, p. 1.

⁽²⁾ Commission Delegated Regulation (EU) 2020/217 of 4 October 2019 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures and correcting that Regulation (OJ L 44, 18.2.2020, p. 1).

Article 2

Suppliers shall not be required to change, as indicated in Article 1, the label or the packaging of substances or mixtures containing them, which they have placed on the market in accordance with Regulation (EC) No 1272/2008 before 15 November 2021.

Article 3

This Regulation shall enter into force on the third day following that of its publication in the *Official Journal of the European Union*.

It shall apply from 1 October 2021.

By way of derogation from the second paragraph of this Article, the substances referred to in Article 1 of this Regulation and the substances and mixtures containing them may, before 1 October 2021, be classified, labelled and packaged in accordance with Regulation (EC) No 1272/2008 as corrected by this Regulation.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

Done at Brussels, 12 August 2021.

For the Commission
The President
Ursula VON DER LEYEN

COMMISSION IMPLEMENTING REGULATION (EU) 2021/1963**of 8 November 2021****amending Regulation (EU) No 1321/2014 as regards safety management systems in maintenance organisations and correcting that Regulation****(Text with EEA relevance)**

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Regulation (EU) 2018/1139 of the European Parliament and of the Council of 4 July 2018 on common rules in the field of civil aviation and establishing a European Union Aviation Safety Agency, and amending Regulations (EC) No 2111/2005, (EC) No 1008/2008, (EU) No 996/2010, (EU) No 376/2014 and Directives 2014/30/EU and 2014/53/EU of the European Parliament and of the Council, and repealing Regulations (EC) No 552/2004 and (EC) No 216/2008 of the European Parliament and of the Council and Council Regulation (EEC) No 3922/91 ⁽¹⁾, and in particular Article 17(1), point (g), Article 62(14) and (15) and Article 72(5) thereof,

Whereas:

- (1) Commission Regulation (EU) No 1321/2014 ⁽²⁾ lays down the requirements for the continuing airworthiness of aircraft, including the requirements for maintenance organisations.
- (2) In accordance with point 3.1(b) of Annex II to Regulation (EU) 2018/1139, approved maintenance organisations must, as appropriate for the type of activity undertaken and the size of the organisation, implement and maintain a management system to ensure compliance with the essential requirements set out in that Annex, manage safety risks and aim for the continuous improvement of that system.
- (3) Pursuant to Annex 19 to the Convention on International Civil Aviation, signed in Chicago on 7 December 1944 ('the Chicago Convention'), competent authorities are to require approved maintenance organisations providing services to operators of aeroplanes or helicopters engaged in international commercial air transport to implement a safety management system.
- (4) Therefore, a management system should be introduced for all maintenance organisations falling within the scope of Annex II to Regulation (EU) No 1321/2014 ('Part-145 maintenance organisations') in order to comply with the International Civil Aviation Organisation ('ICAO') International Standards and Recommended Practices established in Annex 19 to the Chicago Convention.
- (5) All Part-145 maintenance organisations are required to establish an occurrence reporting system. Therefore, the provisions of Annex II to Regulation (EU) No 1321/2014 should be amended to ensure that the occurrence reporting system is established as part of the organisations' management system and that the requirements are aligned with those of Regulation (EU) No 376/2014 of the European Parliament and of the Council ⁽³⁾.
- (6) To account for Part-145 maintenance organisations that are also approved as Part-CAMO organisations, it is appropriate to harmonise the general provisions as well as the requirements for competent authorities set out in Annex II (Part-145) of Regulation (EU) No 1321/2014 with those set out in Annex Vc (Part-CAMO) to that Regulation.

⁽¹⁾ OJ L 212, 22.8.2018, p. 1.

⁽²⁾ Commission Regulation (EU) No 1321/2014 of 26 November 2014 on the continuing airworthiness of aircraft and aeronautical products, parts and appliances, and on the approval of organisations and personnel involved in these tasks (OJ L 362, 17.12.2014, p. 1).

⁽³⁾ Regulation (EU) No 376/2014 of the European Parliament and of the Council of 3 April 2014 on the reporting, analysis and follow-up of occurrences in civil aviation, amending Regulation (EU) No 996/2010 of the European Parliament and of the Council and repealing Directive 2003/42/EC of the European Parliament and of the Council and Commission Regulations (EC) No 1321/2007 and (EC) No 1330/2007 (OJ L 122, 24.4.2014, p. 18).

- (7) There should be a sufficient transition period to allow maintenance organisations to comply with the new rules and procedures introduced by this Regulation.
- (8) Commission Regulation (EU) No 1178/2011 ⁽⁴⁾ does not contain provisions for issuing licences to flight engineers. Therefore, points 145.A.30(j)(3) and (4) of Annex II to Regulation (EU) No 1321/2014 should be amended to delete the reference to flight engineer licences. However, existing limited authorisations for maintenance certification issued to such flight engineers on the basis of those provisions should continue to remain valid until they expire or until they are revoked. Therefore, Article 5 should be amended accordingly.
- (9) Regulation (EU) No 1321/2014 should therefore be amended.
- (10) Point M.A.403(b) of Annex I (Part-M) to Regulation (EU) No 1321/2014 and Appendix VII to Annex I (Part-M) to that Regulation contain references to various elements of point M.A.801. Since point M.A.801 has been replaced by Commission Implementing Regulation (EU) 2019/1383 ⁽⁵⁾, point M.A.403(b) and Appendix VII should be amended accordingly.
- (11) Point M.A.904 of Annex I (Part-M) to Regulation (EU) No 1321/2014 was amended by Implementing Regulation (EU) 2019/1383 to extend the import provisions to aircraft that come from a regulatory system where Regulation (EU) 2018/1139 does not apply. The same amendment should be made also in point ML.A.906 of Annex Vb (Part-ML) to Regulation (EU) No 1321/2014, to harmonise the scope of the import provisions of Annex Vb (Part-ML) with that of Annex I (Part-M). Therefore, Regulation (EU) No 1321/2014 should be amended.
- (12) Point M.A.502(c) of Annex I (Part-M) to Regulation (EU) No 1321/2014 refers to B-rated organisations. Since there are no B-rated organisations in Annex Vd (Part-CAO), point M.A.502(c) should refer to 'engine maintenance organisation'. Therefore, point M.A.502(c) of Annex I (Part-M) to Regulation (EU) No 1321/2014 should be corrected.
- (13) The measures provided for in this Regulation are based on Opinion No 4/2020 ⁽⁶⁾ of the European Union Aviation Safety Agency pursuant to Article 75(2), point (b), and Article 76(1) of Regulation (EU) 2018/1139.
- (14) The measures provided for in this Regulation are in accordance with the opinion of the Committee established by Article 127(1) of Regulation (EU) 2018/1139,

HAS ADOPTED THIS REGULATION:

Article 1

Regulation (EU) No 1321/2014 is amended as follows:

- (1) in Article 4, the following paragraph 7 is added:

'7. By way of derogation from points (1) and (2) of point 145.B.350(d) of Annex II (Part-145), a maintenance organisation that holds a valid approval certificate issued in accordance with Annex II (Part-145) may correct, until 2 December 2024, any findings of non-compliance related to the Annex II requirements introduced by Commission Regulation (EU) 2021/1963 ^(*).

Where after 2 December 2024 the organisation has not closed such findings, the approval certificate shall be revoked, limited or suspended in whole or in part.

^(*) OJ L 400, 12.11.2021, p. 18';

⁽⁴⁾ Commission Regulation (EU) No 1178/2011 of 3 November 2011 laying down technical requirements and administrative procedures related to civil aviation aircrew pursuant to Regulation (EC) No 216/2008 of the European Parliament and of the Council (OJ L 311, 25.11.2011, p. 1).

⁽⁵⁾ Commission Implementing Regulation (EU) 2019/1383 of 8 July 2019 amending and correcting Regulation (EU) No 1321/2014 as regards safety management systems in continuing airworthiness management organisations and alleviations for general aviation aircraft concerning maintenance and continuing airworthiness management (OJ L 228, 4.9.2019, p. 1).

⁽⁶⁾ <https://www.easa.europa.eu/document-library/opinions>

(2) in Article 5, the following paragraph 7 is added:

‘7. Limited certifying staff authorisations issued to flight engineer licence holders pursuant to point 145.A.30(j)(3) or (4) of Annex II (Part-145) before 2 December 2022 shall remain valid until they expire or until they are revoked by the maintenance organisation.’;

(3) Annex I (Part-M) is amended in accordance with Annex I to this Regulation;

(4) Annex II (Part-145) is amended in accordance with Annex II to this Regulation;

(5) Annex Vb (Part-ML) is amended in accordance with Annex III to this Regulation.

Article 2

Annex I (Part-M) to Regulation (EU) No 1321/2014 is corrected in accordance with Annex IV to this Regulation.

Article 3

This Regulation shall enter into force on the twentieth day following that of its publication in the *Official Journal of the European Union*.

It shall apply from 2 December 2022.

However, the following provisions shall apply from 2 December 2021:

(a) Article 2;

(b) Annex I, points (2) and (4);

(c) Annex III.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

Done at Brussels, 8 November 2021.

For the Commission
The President
Ursula VON DER LEYEN

ANNEX I

Annex I (Part-M) is amended as follows:

- (1) in the table of contents, the title of Appendix IV is replaced by the following:

‘Appendix IV – Class and rating system for the terms of approval of maintenance organisations referred to in Annex I (Part-M), Subpart F’;

- (2) in point M.A.403, point (b) is replaced by the following:

‘(b) Only the certifying staff referred to in point M.A.801(b)(1) or in Subpart F of this Annex or in Annex II (Part-145) or in Annex Vd (Part-CAO), or the person authorised in accordance with point M.A.801(c) of this Annex can decide, using maintenance data referred to in point M.A.401 of this Annex, whether an aircraft defect hazards seriously the flight safety and therefore decide when and which rectification action shall be taken before further flight and which defect rectification can be deferred. However, this does not apply when the MEL is used by the pilot or by the certifying staff.’;

- (3) Appendix IV is amended as follows:

- (a) the title is replaced by the following:

‘Appendix IV

Class and rating system for the terms of approval of maintenance organisations referred to in Annex I (Part-M), Subpart F;

- (b) points 1 and 2 are replaced by the following:

‘1. Except as stated otherwise for the smallest organisations referred to in point 11, the table in point 12 provides for the standard system for the approval of a maintenance organisation referred to in Annex I (Part-M), Subpart F. An organisation must be granted an approval that ranges from a single class and rating with limitations to all classes and ratings with limitations.

2. In addition to the table referred to in point 12, the approved maintenance organisation is required to indicate its scope of work in its maintenance organisation manual.’;

- (c) points 8 to 12 are replaced by the following:

‘8. The *limitation* section is intended to give the competent authorities the flexibility to customise the approval to any particular organisation. Ratings shall be mentioned on the approval only when appropriately limited. The table referred to in point 12 specifies the types of limitation possible. Whilst maintenance is listed last in each class rating it is acceptable to stress the maintenance task rather than the aircraft or engine type or manufacturer, if this is more appropriate to the organisation (an example could be avionic systems installations and related maintenance). Such mention in the limitation section indicates that the maintenance organisation is approved to carry out maintenance up to and including this particular type/task.

9. When reference is made to *series, type and group* in the limitation section of class A and B, series means a specific type series such as Cessna 150 or Cessna 172 or Beech 55 series or continental O-200 series etc; type means a specific type or model such as Cessna 172RG type; any number of series or types may be quoted; group means for example Cessna single piston engine aircraft or Lycoming non-supercharged piston engines, etc.

10. When a *lengthy capability list* is used which could be subject to frequent amendments, then such amendments may be performed in accordance with the indirect approval procedure referred to in points M.A.604(c) and M.B.606(c).

11. A maintenance organisation which employs only one person to both plan and carry out all maintenance can only hold a limited scope of approval rating. The maximum permissible limits are:

CLASS	RATING	LIMITATION
CLASS AIRCRAFT	RATING A2 AEROPLANES 5 700 KG AND BELOW	PISTON ENGINE 5 700 KG AND BELOW
CLASS AIRCRAFT	RATING A3 HELICOPTERS	SINGLE PISTON ENGINE 3 175 KG AND BELOW
CLASS AIRCRAFT	RATING A4 AIRCRAFT OTHER THAN A1, A2 AND A3	NO LIMITATION
CLASS ENGINES	RATING B2 PISTON	LESS THAN 450 HP
CLASS COMPONENTS OTHER THAN COMPLETE ENGINES OR APUs.	C1 TO C22	AS PER CAPABILITY LIST
CLASS SPECIALISED	D1 NDT	NDT METHOD(S) TO BE SPECIFIED.

It should be noted that such an organisation may be further limited by the competent authority in the terms of approval depending on the capability of the particular organisation.

12. Table

CLASS	RATING	LIMITATION	BASE	LINE
AIRCRAFT	A2 Aeroplanes 5 700 kg and below	[Shall state aeroplane manufacturer or group or series or type and/or the maintenance task(s)] <i>Example: DHC-6 Twin Otter Series</i> State whether the issue of airworthiness review certificates is authorised	[YES/NO] (*)	[YES/NO] (*)
	A3 Helicopters	[Shall state helicopter manufacturer or group or series or type and/or the maintenance task(s)] <i>Example: Robinson R44</i>	[YES/NO] (*)	[YES/NO] (*)
	A4 Aircraft other than A1, A2 and A3	[Shall state aircraft category (sailplane, balloon, airship, etc.), manufacturer or group or series or type and/or the maintenance task(s)] State whether the issue of airworthiness review certificates is authorised	[YES/NO] (*)	[YES/NO] (*)

ENGINES	B1 Turbine	[Shall state engine series or type and/or the maintenance task(s)] <i>Example: PT6A Series</i>
	B2 Piston	[Shall state engine manufacturer or group or series or type and/or the maintenance task(s)]
	B3 APU	[Shall state engine manufacturer or series or type and/or the maintenance task(s)]
COMPO- NENTS OTHER THAN COMPLETE ENGINES OR APUs	C1 Air Cond & Press	[Shall state aircraft type or aircraft manufacturer or component manufacturer or the particular component and/or cross refer to a capability list in the exposition and/or the maintenance task(s).] <i>Example: PT6A Fuel Control</i>
	C2 Auto Flight	
	C3 Comms and Nav	
	C4 Doors – Hatches	
	C5 Electrical Power & Lights	
	C6 Equipment	
	C7 Engine – APU	
	C8 Flight Controls	
	C9 Fuel	
	C10 Helicopter – Rotors	
	C11 Helicopter – Trans	
	C12 Hydraulic Power	
	C13 Indicating – recording system	
	C14 Landing Gear	
	C15 Oxygen	
	C16 Propellers	
	C17 Pneumatic & Vacuum	
	C18 Protection ice/rain/fire	
	C19 Windows	
	C20 Structural	
	C21 Water ballast	
	C22 Propulsion Augmentation	

SPECIALISED SERVICES	D1 Non Destructive Testing	[Shall state particular NDT method(s)]
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(*) Delete as appropriate.'

(d) point 13 is deleted;

(4) in Appendix VII, the introductory phrase is replaced by the following:

'The following constitutes the complex maintenance tasks referred to in point M.A.801(b):'.

ANNEX II

Annex II (Part-145) is amended as follows:

1. the table of contents is replaced by the following:

'CONTENTS

145.1 Competent authority

SECTION A – TECHNICAL AND ORGANISATION REQUIREMENTS

145.A.10 Scope

145.A.15 Application for an organisation certificate

145.A.20 Terms of approval and scope of work

145.A.25 Facility requirements

145.A.30 Personnel requirements

145.A.35 Certifying staff and support staff

145.A.37 Airworthiness review staff

145.A.40 Equipment and tools

145.A.42 Components

145.A.45 Maintenance data

145.A.47 Production planning

145.A.48 Performance of maintenance

145.A.50 Certification of maintenance

145.A.55 Record-keeping

145.A.60 Occurrence reporting

145.A.65 Maintenance procedures

145.A.70 Maintenance organisation exposition (MOE)

145.A.75 Privileges of the organisation

145.A.85 Changes to the organisation

145.A.90 Continued validity

145.A.95 Findings

145.A.120 Means of compliance

145.A.140 Access

145.A.155 Immediate reaction to a safety problem

145.A.200 Management system

145.A.202 Internal safety reporting scheme

145.A.205 Contracting and subcontracting

SECTION B – AUTHORITY REQUIREMENTS

145.B.005 Scope

145.B.115 Oversight documentation

145.B.120 Means of compliance

145.B.125 Information to the Agency

145.B.135 Immediate reaction to a safety problem

- 145.B.200 Management system
- 145.B.205 Allocation of tasks to qualified entities
- 145.B.210 Changes in the management system
- 145.B.220 Record-keeping
- 145.B.300 Oversight principles
- 145.B.305 Oversight programme
- 145.B.310 Initial certification procedure
- 145.B.330 Changes – organisations
- 145.B.350 Findings and corrective actions; observations
- 145.B.355 Suspension, limitation and revocation
- Appendix I – Authorised Release Certificate – EASA Form 1
- Appendix II – Class and rating system for the terms of approval of Part-145 maintenance organisations
- Appendix III – Maintenance organisation certificate – EASA Form 3-145
- Appendix IV – Conditions for the use of staff not qualified in accordance with Annex III (Part-66) referred to in points 145.A.30(j)1 and 2;

2. point 145.1 is replaced by the following:

‘145.1 Competent authority

For the purpose of this Annex, the competent authority shall be:

1. for organisations that have their principal place of business in a territory for which a Member State is responsible under the Convention on International Civil Aviation, signed in Chicago on 7 December 1944 (“the Chicago Convention”), the authority designated by that Member State, or by another Member State in accordance with Article 64 of Regulation (EU) 2018/1139, or the Agency if the responsibility has been reallocated to the Agency in accordance with Articles 64 or 65 of Regulation (EU) 2018/1139; or
 2. for organisations that have their principal place of business outside a territory for which a Member State is responsible under the Chicago Convention, the Agency.’;
3. in Section A, the title is replaced by the following:

‘SECTION A

TECHNICAL AND ORGANISATION REQUIREMENTS’;

4. point 145.A.10 is replaced by the following:

‘145.A.10 Scope

This Section establishes the requirements to be met by an organisation to qualify for the issue or continuation of an approval certificate for the maintenance of aircraft and components.’;

5. point 145.A.15 is replaced by the following:

‘145.A.15 Application for an organisation certificate

- (a) An application for a certificate or an amendment to an existing certificate in accordance with this Annex shall be made in a form and manner established by the competent authority, taking into account the applicable requirements of Annex I (Part-M), Annex Vb (Part-ML) and this Annex.
 - (b) Applicants for an initial certificate pursuant to this Annex shall provide the competent authority with:
 1. the results of a pre-audit performed by the organisation against the applicable requirements provided for in Annex I (Part-M), Annex Vb (Part-ML) and this Annex;
 2. documentation demonstrating how they will comply with the requirements established in this Regulation.’;
6. point 145.A.20 is replaced by the following:

‘145.A.20 Terms of approval and scope of work

- (a) The organisation’s scope of work shall be specified in the maintenance organisation exposition (MOE) in accordance with point 145.A.70.
 - (b) The organisation shall comply with the terms of approval attached to the organisation certificate issued by the competent authority, and with the scope of work specified in the MOE.’;
7. point 145.A.30 is amended as follows:
- (a) points (a), (b) and (c) are replaced by the following:

‘(a) The organisation shall appoint an accountable manager that has corporate authority to ensure that all maintenance activities of the organisation can be financed and carried out in accordance with Regulation (EU) 2018/1139 and its delegated and implementing acts. The accountable manager shall:

1. ensure that all necessary resources are available to accomplish maintenance in accordance with this Annex, Annex I (Part-M) and Annex Vb (Part-ML), as applicable, to support the organisation certificate;

2. establish and promote the safety policy specified in point 145.A.200(a)(2);
 3. demonstrate a basic understanding of this Regulation.
- (b) The accountable manager shall nominate a person or group of persons representing the management structure for the maintenance functions and with the responsibility to ensure that the organisation works in accordance with the MOE and approved procedures. It shall be made clear in the procedures who deputises for a particular person in the case of lengthy absence of that person.
- (c) The accountable manager shall nominate a person or group of persons with the responsibility to manage the compliance monitoring function as part of the management system.;
- (b) the following points (ca), (cb) and (cc) are inserted:
- ‘(ca) The accountable manager shall nominate a person or group of persons with the responsibility to manage the development, administration and maintenance of effective safety management processes as part of the management system.
- (cb) The person or group of persons nominated in accordance with points (b), (c) and (ca) shall have a responsibility to the accountable manager and direct access to him/her to keep him/her properly informed on compliance and safety matters.
- (cc) The person or persons nominated in accordance with points (b), (c) and (ca) shall be able to demonstrate relevant knowledge, background and satisfactory experience related to aircraft or component maintenance and demonstrate a working knowledge of this Regulation.;
- (c) points (d) and (e) are replaced by the following:
- ‘(d) The organisation shall have a maintenance man-hour plan to ensure it has sufficient and appropriately qualified staff to plan, perform, supervise, inspect and monitor the organisation’s activities in accordance with the terms of approval. In addition, the organisation shall have a procedure to reassess the work intended to be carried out when the actual staff availability is reduced compared to the planned staffing level for a particular work shift or period.
- (e) The organisation shall establish and control the competency of the personnel involved in any maintenance, airworthiness reviews, safety management and compliance monitoring in accordance with a procedure and to a standard agreed with the competent authority. In addition to the necessary expertise related to the job function, the competency of the personnel must include an understanding of the application of safety management principles, including human factors and human performance issues, which is appropriate to their function and responsibilities in the organisation.;
- (d) point (j) is amended as follows:
- (a) The introductory phrase is replaced by the following:
- ‘(j) By way of derogation from points (g) and (h), in relation to the obligation to comply with Annex III (Part-66), the organisation may use certifying staff and support staff that are qualified in accordance with the following provisions:;
- (b) points (1) to (4) are replaced by the following:
- ‘1. For base maintenance carried out at a location outside a territory for which a Member State is responsible under the Chicago Convention, the certifying staff and support staff may be qualified in accordance with the national aviation regulations of the State in which the base maintenance facility is located, subject to the conditions specified in Appendix IV to this Annex.
 2. For line maintenance carried out at a line station located outside a territory for which a Member State is responsible under the Chicago Convention, the certifying staff may be qualified, subject to the conditions specified in Appendix IV to this Annex, in accordance with the following alternative conditions:
 - national aviation regulations of the State in which the line station is located,
 - national aviation regulations of the State in which the organisation’s principal place of business is located.

3. For a repetitive pre-flight airworthiness directive which specifically states that the flight crew may carry out such airworthiness directive, the organisation may issue a limited certification authorisation to the pilot on the basis of the flight crew licence held. In that case, the organisation shall ensure that the pilot has carried out sufficient practical training ensuring that the pilot can accomplish the airworthiness directive.
4. If an aircraft is operated away from a supported location, the organisation may issue a limited certification authorisation to the pilot on the basis of the flight crew licence held, subject to being satisfied that the pilot has carried out sufficient practical training ensuring that the pilot can accomplish the specified task.;

(e) point (k) is replaced by the following:

- ‘(k) If the organisation performs airworthiness reviews and issues the corresponding airworthiness review certificate in accordance with point ML.A.903 of Annex Vb (Part-ML), it shall have airworthiness review staff that are qualified and authorised in accordance with point 145.A.37.’;

8. point 145.A.35 is amended as follows:

(a) points (d), (e) and (f) are replaced by the following:

- ‘(d) The organisation shall ensure that all certifying staff and support staff receive sufficient recurrent training in each 2-year period to ensure that they have up-to-date knowledge of relevant technologies, organisation procedures and safety management, including human factor issues.
- (e) The organisation shall establish a programme for recurrent training for certifying staff and support staff, including a procedure to ensure compliance with the relevant provisions of this point and a procedure to ensure compliance with Annex III (Part-66).
- (f) With the exception of the unforeseen cases specified in point 145.A.30(j)(5), the organisation shall assess all certifying staff for their competency, qualifications and capability to carry out their intended certifying duties in accordance with a procedure in the MOE prior to the issue or reissue of a certification authorisation under this Annex to such staff.’;

(b) points (i) to (n) are replaced by the following:

- ‘(i) The person or persons referred to in point 145.A.30(c) that are responsible for the compliance monitoring function shall also remain responsible for issuing certification authorisations to certifying staff. That personnel may nominate other persons to effectively issue or revoke certification authorisations in accordance with a procedure in the MOE.
- (j) The organisation shall provide certifying staff with a copy of their certification authorisation in either a documented or electronic format.
- (k) Certifying staff shall produce their certification authorisation to any authorised person within 24 hours.
- (l) The minimum age for certifying staff and support staff is 21 years.
- (m) The holder of a category A aircraft maintenance licence may only exercise certification privileges on a specific aircraft type following the satisfactory completion of the relevant category A aircraft task training carried out by an organisation appropriately approved in accordance with Annex II (Part-145) or Annex IV (Part-147). This training shall include practical hands on training and theoretical training as appropriate for each task authorised. Satisfactory completion of training shall be demonstrated by an examination or by workplace assessment carried out by the organisation.

- (n) The holder of a category B2 aircraft maintenance licence may only exercise the certification privileges described in point 66.A.20(a)(3)(ii) of Annex III (Part-66) following the satisfactory completion of:

- (i) the relevant category A aircraft task training; and
- (ii) 6 months of documented practical experience covering the scope of the authorisation that will be issued.

The task training shall include practical hands on training and theoretical training as appropriate for each task authorised. Satisfactory completion of training shall be demonstrated by an examination or by workplace assessment. Task training and examination/assessment shall be carried out by the maintenance organisation issuing the certifying staff authorisation. The practical experience shall be also obtained within such maintenance organisation.;

- (c) point (o) is deleted;

9. point 145.A.36 is deleted;

10. the following point 145.A.37 is inserted:

‘145.A.37 Airworthiness review staff

- (a) In order to be approved to carry out airworthiness reviews and to issue the corresponding airworthiness review certificates (ARC) for aircraft covered by Annex Vb (Part-ML), the organisation shall have airworthiness review staff that comply with all of the following requirements:

- (1) they have acquired experience in continuing airworthiness of at least 1 year for sailplanes and balloons and of at least 3 years for all other aircraft;
- (2) they hold a certifying staff authorisation for the corresponding aircraft;
- (3) they have acquired knowledge of Annex I (Part-M), Subpart C, or of Annex Vb (Part-ML), Subpart C;
- (4) they have acquired knowledge of the procedures of the maintenance organisation relevant to the airworthiness review and issue of the airworthiness review certificate.

- (b) Before the organisation issues an airworthiness review authorisation to a candidate, that person shall perform an airworthiness review under the supervision of the competent authority or under the supervision of a person that is already authorised as airworthiness review staff by the organisation. If this airworthiness review under supervision is satisfactory, the competent authority shall formally accept that person to become airworthiness review staff.

- (c) The organisation shall ensure that the airworthiness review staff can demonstrate appropriate recent continuing airworthiness experience.;

11. point 145.A.45 is amended as follows:

- (a) point (a) is replaced by the following:

- ‘(a) The organisation shall hold and use applicable current maintenance data which is necessary in the performance of maintenance, including modifications and repairs. “Applicable” means relevant to any aircraft, component or process specified in the organisation’s terms of approval and in any associated capability list.

In the case of maintenance data provided by the person or organisation requesting the maintenance, the organisation shall hold such data when the work is in progress, with the exception of the need to comply with point 145.A.55(a)(3).;

- (b) points (c), (d) and (e) are replaced by the following:

- ‘(c) The organisation shall establish procedures to ensure that if inaccurate, incomplete or ambiguous procedure, practice, information or maintenance instruction is found in the maintenance data used by maintenance personnel, it is recorded as part of the internal safety reporting scheme referred to in point 145.A.202 and notified to the author of the maintenance data.

- (d) The organisation may only modify maintenance instructions in accordance with a procedure that is specified in the MOE. With respect to changes to maintenance instructions, the organisation shall demonstrate that they result in equivalent or improved maintenance standards, and shall inform the author of the maintenance instructions of such changes. For the purposes of this point, “maintenance instructions” mean instructions on how to carry out a particular maintenance task; they exclude the engineering design of repairs and modifications.
- (e) The organisation shall provide a common work card or worksheet system to be used throughout the relevant parts of the organisation. In addition, the organisation shall either accurately transcribe the maintenance data referred to in points (b) and (d) onto such work cards or worksheets, or make precise reference to the particular maintenance task or tasks contained in that maintenance data. Work cards and worksheets may be computer generated and held in an electronic database that is adequately protected against unauthorised alteration, and for which there is a backup electronic database which shall be updated within 24 hours after an entry is made to the main electronic database. Complex or long maintenance tasks shall be transcribed onto the work cards or worksheets and subdivided into clear stages to ensure that there is a record of the accomplishment of the complete maintenance task.

When the organisation provides maintenance services to an aircraft operator which requires its own work card or worksheet system to be used, then such work card or worksheet system may be used. In that case, the organisation shall establish a procedure to ensure that those work cards or worksheets are correctly completed.’;

12. point 145.A.47 is amended as follows:

(a) point (b) is replaced by the following:

‘(b) As part of the management system, the planning of maintenance tasks, and the organising of shifts, shall take into account human performance limitations, including the threat of fatigue for maintenance personnel.’;

(b) the following point (d) is added:

‘(d) The organisation shall ensure that aviation safety hazards associated with external working teams carrying out maintenance at the organisation’s facilities are considered by the organisation’s management system.’;

13. point 145.A.48 is replaced by the following:

‘145.A.48 Performance of maintenance

- (a) The organisation may only carry out maintenance on an aircraft or component for which it is approved when all the necessary facilities, equipment, tooling, material, maintenance data and personnel are available.
- (b) The organisation shall be responsible for the maintenance that is performed within the scope of its approval.
- (c) The organisation shall ensure that:
 - (1) after the completion of the maintenance, a general verification is carried out to ensure that the aircraft or component is clear of all tools, equipment and any extraneous parts or material, and that all access panels that were removed have been refitted;
 - (2) an error-capturing method is implemented after the performance of any critical maintenance task;
 - (3) the risk of errors during maintenance and the risk of errors being repeated in identical maintenance tasks are minimised;
 - (4) damage is assessed, and modifications and repairs are carried out using the data specified in point M.A.304 of Annex I (Part-M) or point ML.A.304 of Annex Vb (Part-ML), as applicable;
 - (5) the assessment of aircraft defects is carried out in accordance with point M.A.403(b) of Annex I (Part-M) or ML.A.403(b) of Annex Vb (Part-ML), as applicable.’;

14. point 145.A.50 is amended as follows:

(a) point (a) is replaced by the following:

‘(a) A certificate of release to service shall be issued by appropriately authorised certifying staff on behalf of the organisation when that certifying staff has verified that all the maintenance that was ordered has been properly carried out by the organisation in accordance with the procedures specified in point 145.A.70, taking into account the availability and use of the maintenance data specified in point 145.A.45, and that there are no known non-compliances which endanger flight safety.’;

(b) points (c) and (d) are replaced by the following:

‘(c) New defects or incomplete maintenance work orders identified during the maintenance shall be brought to the attention of the person or organisation responsible for the aircraft continuing airworthiness for the specific purpose of obtaining agreement to rectify such defects or completing the missing elements of the maintenance work order. In the case where that person or organisation declines to have such maintenance carried out under this point, point (e) is applicable.

(d) A certificate of release to service shall be issued by appropriately authorised certifying staff on behalf of the organisation after the maintenance that was ordered has been carried out on a component whilst it was off the aircraft. The authorised release certificate “EASA Form 1” referred to in Appendix II of Annex I (Part-M) constitutes the component certificate of release to service except if otherwise specified in point M.A.502 of Annex I (Part-M) or ML.A.502 of Annex Vb (Part-ML), as applicable. When an organisation maintains a component for its own use, the EASA Form 1 may not be necessary if the organisation’s internal release procedures in its MOE so provides.’;

(c) point (f) is replaced by the following:

‘(f) By way of derogation from point 145.A.50(a) and point 145.A.42, when an aircraft is grounded at a location other than the main line station or main maintenance base due to the non-availability of a component with the appropriate release certificate, the organisation contracted for the maintenance of that aircraft may temporarily fit a component without the appropriate release certificate for a maximum of 30 flight hours or until the aircraft first returns to the main line station or main maintenance base, whichever is the sooner, subject to the agreement of the person or organisation responsible for the aircraft’s continuing airworthiness and subject to that component having a suitable release certificate but otherwise in compliance with all applicable maintenance and operational requirements. Such components shall be removed by the time limit provided for in the first sentence of this point unless an appropriate release certificate has been obtained in the meantime under points 145.A.50(a) and 145.A.42.’;

15. point 145.A.55 is replaced by the following:

‘145.A.55 **Record-keeping**

(a) Maintenance records

(1) The organisation shall record the details of the maintenance work that is carried out within the scope of its approval. As a minimum, the organisation shall retain all the records that are necessary to prove that all the requirements have been met for the issue of the certificate of release to service, including, if any, subcontractor’s release documents.

(2) The organisation shall provide a copy of each certificate of release to service to the operator or customer, together with copies of the detailed maintenance records that are associated with the work carried out and that are necessary to demonstrate compliance with point M.A.305 of Annex I (Part-M) or ML.A.305 of Annex Vb (Part-ML), as applicable.

(3) The organisation shall retain a copy of all detailed maintenance records (including certificates of release to service) and of any associated maintenance data for 3 years from the date when the aircraft or component to which the work relates was issued with a certificate of release to service.

- (4) If an organisation terminates its operation, it shall transfer all the retained maintenance records that cover the last 3 years to the last customer or owner of the respective aircraft or component, or shall store them in the manner specified by the competent authority.

(b) Airworthiness review records

- (1) If an organisation has the privilege referred to in point 145.A.75(f), it shall retain a copy of each airworthiness review certificate that it has issued, together with all the supporting documents, and shall make those records available, upon request, to the owner of the aircraft.
- (2) The organisation shall retain a copy of all the records referred to in point (1) for 3 years after the issue of the airworthiness review certificate.
- (3) If an organisation terminates its operation, it shall transfer all the retained airworthiness review records that cover the last 3 years to the last owner or operator of the respective aircraft, or shall store them in the manner specified by the competent authority.

(c) Management system, contracting and subcontracting records

The organisation shall ensure that the following records are retained for a minimum period of 5 years:

- (i) records of management system key processes referred to in point 145.A.200;
- (ii) contracts, both for contracting and subcontracting, referred to in point 145.A.205.

(d) Personnel records

- (1) The organisation shall ensure that the following records are retained:

- (i) records of the qualifications, training and experience of the personnel involved in maintenance, compliance monitoring and safety management;
- (ii) records of the qualifications, training and experience of all airworthiness review staff.

- (2) The records of all airworthiness review staff shall include details of any appropriate qualifications held, together with a summary of their relevant continuing airworthiness experience and training, and a copy of the airworthiness review authorisation issued to that staff by the organisation.

- (3) The records of all the certifying staff and support staff shall include the following:

- (i) the details of any aircraft maintenance licence held under Annex III (Part-66) or equivalent;
- (ii) the scope of the certification authorisations that were issued to that staff, where relevant;
- (iii) the particulars of the staff that held limited or one-off certification authorisations referred to in point 145.A.30(j).

- (4) Personnel records shall be kept for as long as a person works for the organisation, and shall be retained for at least 3 years after the person has left the organisation, or after an authorisation issued to that person has been withdrawn.

- (5) The organisation shall give to the staff referred to in points (2) and (3), upon their request, access to their personnel records as detailed in those points. In addition, upon their request, the maintenance organisation shall furnish each of them with a copy of their personnel records on leaving the organisation.

- (e) The organisation shall establish a record-keeping system that allows adequate storage and reliable traceability of all its activities.

- (f) The format of the records shall be specified in the organisation's procedures.

- (g) The records shall be stored in a manner that ensures that they are protected from damage, alteration and theft.;

16 point 145.A.60 is replaced by the following:

‘145.A.60 Occurrence reporting

- (a) As part of its management system, the organisation shall establish and maintain an occurrence-reporting system, including mandatory and voluntary reporting. For organisations that have their principal place of business in a Member State, a single system may be established to meet the requirements of Regulation (EU) No 376/2014 and its implementing acts and of Regulation (EU) 2018/1139 and its delegated and implementing acts.
- (b) The organisation shall report to its competent authority and to the design approval holder of the aircraft or component any safety-related event or condition of an aircraft or component identified by the organisation which endangers or, if not corrected or addressed, could endanger an aircraft, its occupants or any other person, and in particular any accident or serious incident.
- (c) The organisation shall also report any such event or condition that affects an aircraft to the person or organisation that is responsible for the continuing airworthiness of that aircraft in accordance with point M.A.201 of Annex I (Part-M) or point M.L.A.201 Annex Vb (Part-ML), as applicable. For events or conditions that affect aircraft components, the organisation shall report to the person or organisation that requested the maintenance.
- (d) For organisations that do not have their principal place of business in a Member State:
 - (1) the initial mandatory reports shall:
 - (i) appropriately safeguard the confidentiality of the identity of the reporter and of the persons mentioned in the report;
 - (ii) be made as soon as practicable, but in any case within 72 hours after the organisation has become aware of the occurrence unless exceptional circumstances prevent this;
 - (iii) be made in a form and manner established by the competent authority;
 - (iv) contain all pertinent information about the condition known to the organisation;
 - (2) where relevant, a follow-up report that provides details of the actions the organisation intends to take to prevent similar occurrences in the future shall be made as soon as those actions have been identified; those follow-up reports shall:
 - (i) be sent to the entities referred to in points (b) and (c) to which the initial report was sent;
 - (ii) be made in a form and manner established by the competent authority;’;

17. point 145.A.65 is replaced by the following:

‘145.A.65 Maintenance procedures

- (a) The organisation shall establish procedures which ensure that human factors and good maintenance practices are taken into account during maintenance, including subcontracted activities, and which comply with the applicable requirements of this Annex, Annex I (Part-M) and Annex Vb (Part-ML). Such procedures shall be agreed with the competent authority.
- (b) The maintenance procedures established under this point shall:
 - (1) ensure that a clear maintenance work order or contract has been agreed between the organisation and the person or organisation that requests the maintenance, to clearly establish the maintenance to be carried out so that the aircraft and components may be released to service in accordance with point 145.A.50;
 - (2) cover all the aspects of carrying out the maintenance, including the provision and control of specialised services, and lay down the standards according to which the organisation intends to work;’;

18 point 145.A.70 is replaced by the following:

‘145.A.70 Maintenance organisation exposition (MOE)

- (a) The organisation shall establish and maintain a maintenance organisation exposition (MOE) that includes, directly or by reference, all of the following:
- (1) a statement signed by the accountable manager confirming that the maintenance organisation will at all times work in accordance with this Annex, Annex I (Part-M) and Annex Vb (Part-ML), as applicable, and with the approved MOE. If the accountable manager is not the chief executive officer of the organisation, then the chief executive officer shall countersign the statement;
 - (2) the organisation's safety policy and the related safety objectives referred to in point 145.A.200(a)(2);
 - (3) the title(s) and name(s) of the person(s) nominated under points 145.A.30(b), (c) and (ca);
 - (4) the duties and responsibilities of the persons nominated under points 145.A.30(b), (c) and (ca), including the matters on which they may deal directly with the competent authority on behalf of the organisation;
 - (5) an organisation chart showing the accountability and associated lines of responsibility, established in accordance with point 145.A.200(a)(1), between all the persons referred to in points 145.A.30(a), (b), (c) and (ca);
 - (6) a list of the certifying staff and, if applicable, support staff and airworthiness review staff with their scope of authorisation;
 - (7) a general description of the manpower resources and of the system that is in place to plan the availability of staff, as required by point 145.A.30(d);
 - (8) a general description of the facilities at each approved location;
 - (9) a specification of the scope of work of the organisation that is relevant to the terms of approval as required by point 145.A.20;
 - (10) the procedure that sets out the scope of changes not requiring prior approval and that describes how such changes will be managed and notified to the competent authority, as required by point 145.A.85(c);
 - (11) the procedure for amending the MOE;
 - (12) the procedures specifying how the organisation ensures compliance with this Annex;
 - (13) a list of the commercial operators to which the organisation provides regular aircraft maintenance services, and the associated procedures;
 - (14) where applicable, a list of the subcontracted organisations referred to in point 145.A.75(b);
 - (15) a list of the approved locations including, where applicable, line maintenance locations referred to in point 145.A.75(d);
 - (16) a list of the contracted organisations;
 - (17) a list of the currently approved alternative means of compliance used by the organisation.
- (b) The initial issue of the MOE shall be approved by the competent authority. It shall be amended as necessary so that it remains an up-to-date description of the organisation.
- (c) Amendments to the MOE shall be managed as set out in the procedures referred to in points (a)(10) and (a)(11). Any amendments that are not included in the scope of the procedure referred to in point (a)(10), as well as any amendments related to the changes listed in point 145.A.85(a), shall be approved by the competent authority.’;

19 point 145.A.75 is amended as follows:

- (a) the introductory phrase is replaced by the following:

‘In accordance with the MOE, the organisation shall be entitled to carry out the following tasks: ’;

(b) points (a) and (b) are replaced by the following:

- ‘(a) maintain any aircraft or component for which it is approved at the locations identified in the certificate and in the MOE;
- (b) arrange for the maintenance of any aircraft or component for which it is approved at another subcontracted organisation that works under the management system of the organisation. This is limited to the work permitted under the procedures established in accordance with point 145.A.65 and it shall not include a base maintenance check of an aircraft, or a complete workshop maintenance check or overhaul of an engine or an engine module;’;

(c) point (f) is replaced by the following:

- ‘(f) if specifically approved to do so for aircraft covered by Annex Vb (Part-ML) and if it has its principal place of business in one of the Member States, the organisation may perform airworthiness reviews and issue the corresponding airworthiness review certificates under the conditions specified in point ML.A.903 of Annex Vb (Part-ML).’;

20. point 145.A.80 is deleted;

21. point 145.A.85 is replaced by the following:

‘145.A.85 Changes to the organisation

(a) The following changes to the organisation shall require prior approval by the competent authority:

- (1) changes to the certificate, including the terms of approval of the organisation;
- (2) changes of the persons referred to in points 145.A.30(a), (b), (c) and (ca);
- (3) changes to the reporting lines between the personnel nominated in accordance with points 145.A.30(b), (c) and (ca), and the accountable manager;
- (4) the procedure as regards changes not requiring prior approval referred to in point (c);
- (5) additional locations of the organisation other than those that are subject to point 145.A.75(c).

(b) For the changes referred to in point (a) and for all other changes requiring prior approval in accordance with this Annex, the organisation shall apply for and obtain an approval issued by the competent authority. The application shall be submitted before such changes take place in order to enable the competent authority to determine that there is continued compliance with this Annex and to amend, if necessary, the organisation certificate and the related terms of approval that are attached to it.

The organisation shall provide the competent authority with any relevant documentation.

The change shall only be implemented upon the receipt of a formal approval from the competent authority in accordance with point 145.B.330.

The organisation shall operate under the conditions prescribed by the competent authority during such changes, as applicable.

(c) All changes not requiring prior approval shall be managed and notified to the competent authority as set out in a procedure which is approved by the competent authority in accordance with point 145.B.310(h).’;

22. point 145.A.90 is replaced by the following:

‘145.A.90 Continued validity

(a) The organisation’s certificate shall remain valid, subject to compliance with all of the following conditions:

- (1) the organisation remaining in compliance with Regulation (EU) 2018/1139 and its delegated and implementing acts, taking into account the provisions of point 145.B.350 of this Annex related to the handling of findings;

- (2) the competent authority being granted access to the organisation as specified in point 145.A.140;
- (3) the certificate not being surrendered by the organisation, or suspended or revoked by the competent authority under point 145.B.355.
- (b) Upon surrender or revocation, the certificate shall be returned to the competent authority without delay.;

23 point 145.A.95 is replaced by the following:

‘145.A.95 Findings and observations

- (a) After the receipt of a notification of findings in accordance with point 145.B.350, the organisation shall:
 - (1) identify the root cause(s) of, and contributing factor(s) to, the non-compliance;
 - (2) define a corrective action plan;
 - (3) demonstrate the implementation of corrective action to the satisfaction of the competent authority.
- (b) The actions referred to in point (a) shall be performed within the period agreed with that competent authority in accordance with point 145.B.350.
- (c) The observations received in accordance with point 145.B.350(f) shall be given due consideration by the organisation. The organisation shall record the decisions taken in respect of those observations.;

24 the following point 145.A.120 is added:

‘145.A.120 Means of compliance

- (a) An organisation may use any alternative means of compliance to establish compliance with this Regulation.
- (b) If an organisation wishes to use an alternative means of compliance, it shall, prior to using it, provide the competent authority with a full description. The description shall include any revisions to manuals or procedures that may be relevant, as well as an explanation indicating how compliance with this Regulation is achieved.

The organisation may use those alternative means of compliance subject to prior approval from the competent authority.;

25 the following point 145.A.140 is added:

‘145.A.140 Access

For the purpose of determining compliance with the relevant requirements of Regulation (EU) 2018/1139 and its delegated and implementing acts, the organisation shall ensure that access to any facility, aircraft, document, records, data, procedures or to any other material relevant to its activity subject to certification, whether it is subcontracted or not, is granted to any person authorised by one of the following authorities:

- (a) the competent authority defined in point 145.1;
- (b) the authority performing the oversight tasks in accordance with point 145.B.300(d).;

26 the following point 145.A.155 is added:

‘145.A.155 Immediate reaction to a safety problem

The organisation shall implement:

- (a) any safety measures mandated by the competent authority in accordance with point 145.B.135;
- (b) any relevant mandatory safety information issued by the Agency.;

27 the following point 145.A.200 is added:

‘145.A.200 Management system

- (a) The organisation shall establish, implement and maintain a management system that includes:
 - (1) clearly defined accountability and lines of responsibility throughout the organisation, including a direct safety accountability of the accountable manager;
 - (2) a description of the overall philosophies and principles of the organisation with regard to safety (“the safety policy”), and the related safety objectives;
 - (3) the identification of aviation safety hazards entailed by the activities of the organisation, their evaluation and the management of the associated risks, including taking actions to mitigate the risks and verify their effectiveness;
 - (4) maintaining personnel trained and competent to perform their tasks;
 - (5) documentation of all management system key processes, including a process for making personnel aware of their responsibilities and the procedure for amending that documentation;
 - (6) a function to monitor the compliance of the organisation with the relevant requirements. Compliance monitoring shall include a feedback system of findings to the accountable manager to ensure the effective implementation of corrective actions as necessary.
- (b) The management system shall correspond to the size of the organisation and the nature and complexity of its activities, taking into account the hazards and the associated risks inherent in those activities.
- (c) If the organisation holds one or more additional organisation certificates within the scope of Regulation (EU) 2018/1139, the management system may be integrated with that required under the additional certificate(s) held.’;

28 the following point 145.A.202 is added:

‘145.A.202 Internal safety reporting scheme

- (a) As part of its management system, the organisation shall establish an internal safety reporting scheme to enable the collection and evaluation of such occurrences that are to be reported under point 145.A.60.
- (b) The scheme shall also enable the collection and evaluation of those errors, near misses and hazards reported internally that do not fall under point (a).
- (c) Through that scheme, the organisation shall:
 - (1) identify the causes of, and contributing factors to, the errors, near misses and hazards reported, and address them as part of its safety risk management process in accordance with point 145.A.200(a)(3);
 - (2) ensure an evaluation of all known, relevant information relating to errors, near misses, hazards and the inability to follow procedures, and a method to circulate the information as necessary.
- (d) The organisation shall make arrangements to ensure the collection of safety issues related to subcontracted activities.’;

29 the following point 145.A.205 is added:

‘145.A.205 Contracting and subcontracting

- (a) The organisation shall ensure that when contracting or subcontracting any part of its maintenance activities:
 - (1) the maintenance conforms to the applicable requirements;
 - (2) any aviation safety hazard associated with such contracting or subcontracting is considered as part of the organisation’s management system.
- (b) If the organisation subcontracts any part of its maintenance activities to another organisation, the subcontracted organisation shall work under the scope of approval of the subcontracting organisation.’;

30 Section B is replaced by the following:

‘SECTION B

AUTHORITY REQUIREMENTS

145.B.005 Scope

This section establishes the conditions for conducting the certification, oversight and enforcement tasks as well as the administrative and management system requirements to be followed by the competent authority that is responsible for the implementation and enforcement of Section A.

145.B.115 Oversight documentation

The competent authority shall provide all the legislative acts, standards, rules, technical publications, and related documents to the relevant personnel in order to allow them to perform their tasks and to discharge their responsibilities.

145.B.120 Means of compliance

- (a) The Agency shall develop acceptable means of compliance (“AMC”) that may be used to establish compliance with Regulation (EU) 2018/1139 and its delegated and implementing acts.
- (b) Alternative means of compliance may be used to establish compliance with this Regulation.
- (c) Competent authorities shall inform the Agency of any alternative means of compliance used by organisations under their oversight or by themselves for establishing compliance with this Regulation.

145.B.125 Information to the Agency

- (a) The competent authority of the Member State shall notify the Agency in case of any significant problems with the implementation of Regulation (EU) 2018/1139 and its delegated and implementing acts within 30 days from the time the authority became aware of the problems.
- (b) Without prejudice to Regulation (EU) No 376/2014 and its delegated and implementing acts, the competent authority shall provide the Agency as soon as possible with any safety-significant information stemming from the occurrence reports stored in the national database pursuant to Article 6(6) of Regulation (EU) No 376/2014.

145.B.135 Immediate reaction to a safety problem

- (a) Without prejudice to Regulation (EU) No 376/2014 and its delegated and implementing acts, the competent authority shall implement a system to appropriately collect, analyse and disseminate safety information.
- (b) The Agency shall implement a system to appropriately analyse any relevant safety information received and, without undue delay, provide the relevant authority of the Member States and the Commission with any information, including recommendations or corrective actions to be taken, that is necessary for them to react in a timely manner to a safety problem involving products, parts, appliances, persons or organisations that are subject to Regulation (EU) 2018/1139 and its delegated and implementing acts.
- (c) Upon receiving the information referred to in points (a) and (b), the competent authority shall take adequate measures to address the safety problem.
- (d) The competent authority shall immediately notify measures taken under point (c) to all persons or organisations which need to comply with them under Regulation (EU) 2018/1139 and its delegated and implementing acts. The competent authority shall also notify those measures to the Agency and, when combined action is required, to the other Member States concerned.

145.B.200 Management system

- (a) The competent authority shall establish and maintain a management system, including as a minimum:
- (1) documented policies and procedures to describe its organisation, the means and methods for establishing compliance with Regulation (EU) 2018/1139 and its delegated and implementing acts. The procedures shall be kept up to date, and serve as the basic working documents within that competent authority for all its related tasks;
 - (2) a sufficient number of personnel to perform its tasks and discharge its responsibilities. A system shall be in place to plan the availability of personnel in order to ensure the proper completion of all tasks;
 - (3) personnel that are qualified to perform their allocated tasks and that have the necessary knowledge and experience and receive initial and recurrent training to ensure continuing competency;
 - (4) adequate facilities and office accommodation for personnel to perform their allocated tasks;
 - (5) a function to monitor the compliance of the management system with the relevant requirements, and the adequacy of the procedures, including the establishment of an internal audit process and a safety risk management process. Compliance monitoring shall include a feedback system of audit findings to the senior management of the competent authority to ensure the implementation of corrective actions as necessary;
 - (6) a person or group of persons having a responsibility to the senior management of the competent authority for the compliance monitoring function.
- (b) The competent authority shall, for each field of activity, including the management system, appoint one or more persons with the overall responsibility for the management of the relevant task(s).
- (c) The competent authority shall establish procedures for the participation in a mutual exchange of all necessary information and assistance with any other competent authorities concerned, whether from the same Member State or from other Member States, including on:
- (1) all findings raised and any follow-up actions taken as a result of the oversight of persons and organisations that carry out activities in the territory of a Member State, but certified by the competent authority of another Member State or by the Agency;
 - (2) information stemming from mandatory and voluntary occurrence reporting as required by 145.A.60.
- (d) A copy of the procedures related to the management system and their amendments shall be made available to the Agency for the purpose of standardisation.

145.B.205 Allocation of tasks to qualified entities

- (a) The competent authority may allocate tasks related to the initial certification or to the continuing oversight of organisations subject to Regulation (EU) 2018/1139 and its delegated and implementing acts, to qualified entities. When allocating tasks, the competent authority shall ensure that it has:
- (1) put a system in place to initially and continuously assess whether the qualified entity complies with Annex VI to Regulation (EU) 2018/1139. That system and the results of the assessments shall be documented;
 - (2) established a written agreement with the qualified entity, approved by both parties at the appropriate management level, which stipulates:
 - (i) the tasks to be performed;
 - (ii) the declarations, reports and records to be provided;
 - (iii) the technical conditions to be met when performing such tasks;
 - (iv) the related liability coverage;
 - (v) the protection given to the information acquired when carrying out such tasks.

- (b) The competent authority shall ensure that the internal audit process and safety risk management process established pursuant to point 145.B.200(a)(5) cover all the certification and continuing oversight tasks performed by the qualified entity on its behalf.

145.B.210 **Changes in the management system**

- (a) The competent authority shall have a system in place to identify the changes that affect its capability to perform its tasks and discharge its responsibilities as defined in Regulation (EU) 2018/1139 and its delegated and implementing acts. That system shall enable the competent authority to take action necessary to ensure that its management system remains adequate and effective.
- (b) The competent authority shall update in a timely manner its management system to reflect any changes to Regulation (EU) 2018/1139 and its delegated and implementing acts so as to ensure its effective implementation.
- (c) The competent authority shall notify the Agency of any changes affecting its capability to perform its tasks and discharge its responsibilities as provided for in Regulation (EU) 2018/1139 and its delegated and implementing acts.

145.B.220 **Record-keeping**

- (a) The competent authority shall establish a record-keeping system that allows the adequate storage, accessibility and reliable traceability of:
- (1) the management system's documented policies and procedures;
 - (2) the training, qualifications and authorisations of its personnel;
 - (3) the allocation of tasks, covering the elements required by point 145.B.205, as well as the details of tasks allocated;
 - (4) certification processes and continuing oversight of certified organisations, including:
 - (i) the application for an organisation certificate;
 - (ii) the competent authority's continuing oversight programme, including all the assessments, audits and inspection records;
 - (iii) the organisation certificate, including any changes to it;
 - (iv) a copy of the oversight programme, listing the dates when audits are due and when audits were carried out;
 - (v) copies of all formal correspondence;
 - (vi) recommendations for the issue or continuation of a certificate, details of findings and actions taken by the organisations to close those findings, including the date of closure, enforcement actions and observations;
 - (vii) any assessment, audit and inspection report issued by another competent authority pursuant to point 145.B.300(d);
 - (viii) copies of all the organisation MOEs or manuals, and of any amendments to them;
 - (ix) copies of any other documents approved by the competent authority;
 - (5) documents supporting the use of alternative means of compliance;
 - (6) safety information provided in accordance with point 145.B.125 and follow-up measures;
 - (7) the use of safeguard and flexibility provisions in accordance with Article 70, Article 71(1) and Article 76(4) of Regulation (EU) 2018/1139.
- (b) The competent authority shall maintain a list of all the organisation certificates it has issued.
- (c) All the records referred to in points (a) and (b) shall be kept for a minimum period of 5 years, subject to applicable data protection law.
- (d) All the records referred to in points (a) and (b) shall be made available, upon request, to a competent authority of another Member State or to the Agency.

145.B.300 Oversight principles

- (a) The competent authority shall verify:
- (1) compliance with the requirements that are applicable to organisations, prior to issuing an organisation certificate;
 - (2) continued compliance with the applicable requirements of the organisations it has certified;
 - (3) the implementation of appropriate safety measures mandated by the competent authority in accordance with points 145.B.135(c) and (d).
- (b) This verification shall:
- (1) be supported by documentation specifically intended to provide personnel responsible for oversight with guidance to perform their functions;
 - (2) provide the organisations concerned with the results of oversight activities;
 - (3) be based on assessments, audits and inspections and, if needed, unannounced inspections;
 - (4) provide the competent authority with the evidence needed in case further action is required, including the measures provided for in point 145.B.350.
- (c) The competent authority shall establish the scope of the oversight set out in points (a) and (b) taking into account the results of past oversight activities and the safety priorities.
- (d) If the facilities of an organisation are located in more than one State, the competent authority, as defined in point 145.1, may agree to have the oversight tasks performed by the competent authority(ies) of the Member State(s) where the facilities are located, or by the Agency for facilities that are located outside a territory for which Member States are responsible under the Chicago Convention. Any organisation that is subject to such an agreement shall be informed of its existence and of its scope.
- (e) For any oversight activities that are performed at facilities located in a Member State other than where the organisation has its principal place of business, the competent authority, as defined in point 145.1, shall inform the competent authority of that Member State before performing any on-site audit or inspection of the facilities.
- (f) The competent authority shall collect and process any information deemed necessary for performing oversight activities.

145.B.305 Oversight programme

- (a) The competent authority shall establish and maintain an oversight programme covering the oversight activities required by point 145.B.300.
- (b) The oversight programme shall take into account the specific nature of the organisation, the complexity of its activities, the results of past certification or oversight activities, or both, and it shall be based on the assessment of the associated risks. It shall include, within each oversight planning cycle:
- (1) assessments, audits and inspections, including, as appropriate:
 - (i) management system assessments and process audits;
 - (ii) product audits of a relevant sample of the maintenance carried out by the organisation;
 - (iii) sampling of the airworthiness reviews performed;
 - (iv) unannounced inspections;
 - (2) meetings convened between the accountable manager and the competent authority to ensure that both parties remain informed of all significant issues.
- (c) The oversight planning cycle shall not exceed 24 months.
- (d) Notwithstanding point (c), the oversight planning cycle may be extended to 36 months if the competent authority has established that during the previous 24 months:
- (1) the organisation has demonstrated that it can effectively identify aviation safety hazards and manage the associated risks;

- (2) the organisation has continuously demonstrated compliance with point 145.A.85 and it has full control over all changes;
- (3) no level 1 findings have been issued;
- (4) all corrective actions have been implemented within the time period that was accepted or extended by the competent authority as provided for in point 145.B.350.

Notwithstanding point (c), the oversight planning cycle may be further extended to a maximum of 48 months if, in addition to the conditions provided in points (d)(1) to (4), the organisation has established, and the competent authority has approved, an effective continuous system for reporting to the competent authority on the safety performance and regulatory compliance of the organisation itself.

- (e) The oversight planning cycle may be shortened if there is evidence that the safety performance of the organisation has decreased.
- (f) The oversight programme shall include records of the dates when assessments, audits, inspections and meetings are due, and when assessments, audits, inspections and meetings have been effectively carried out.
- (g) At the completion of each oversight planning cycle, the competent authority shall issue a recommendation report on the continuation of the approval, reflecting the results of the oversight.

145.B.310 **Initial certification procedure**

- (a) Upon receiving an application from an organisation for the initial issue of a certificate, the competent authority shall verify the organisation's compliance with the applicable requirements.
- (b) A meeting with the accountable manager of the organisation shall be convened at least once during the investigation for initial certification to ensure that that person understands his or her role and accountability.
- (c) The competent authority shall record all the findings issued, closure actions as well as the recommendations for the issue of the certificate.
- (d) The competent authority shall confirm to the organisation in writing all the findings raised during the verification. For initial certification, all findings must be corrected to the satisfaction of the competent authority before the certificate can be issued.
- (e) When satisfied that the organisation complies with the applicable requirements, the competent authority shall:
 - (1) issue the certificate as established in Appendix III "EASA Form 3-145" in accordance with the class and rating system provided for in Appendix II;
 - (2) formally approve the MOE.
- (f) The certificate reference number shall be included on the EASA Form 3-145 certificate in a manner specified by the Agency.
- (g) The certificate shall be issued for an unlimited duration. The privileges and the scope of the activities that the organisation is approved to conduct, including any limitations as applicable, shall be specified in the terms of approval attached to the certificate.
- (h) To enable the organisation to implement changes without prior competent authority approval in accordance with point 145.A.85(c), the competent authority shall approve the relevant MOE procedure that sets out the scope of such changes and describes how such changes will be managed and notified to the competent authority.

145.B.330 **Changes – organisations**

- (a) Upon receiving an application for a change that requires prior approval, the competent authority shall verify the organisation's compliance with the applicable requirements before issuing the approval.
- (b) The competent authority shall establish the conditions under which the organisation may operate during the change unless the competent authority determines that the organisation's certificate needs to be suspended.

- (c) When it is satisfied that the organisation complies with the applicable requirements, the competent authority shall approve the change.
- (d) Without prejudice to any additional enforcement measures, if the organisation implements changes requiring prior approval without having received the approval of the competent authority pursuant to point (c), the competent authority shall consider the need to suspend, limit or revoke the organisation's certificate.
- (e) For changes not requiring prior approval, the competent authority shall include the review of such changes in its continuing oversight in accordance with the principles set forth in point 145.B.300. If any non-compliance is found, the competent authority shall notify the organisation, request further changes, and act in accordance with point 145.B.350.

145.B.350 Findings and corrective actions; observations

- (a) The competent authority shall have a system in place to analyse findings for their safety significance.
- (b) A level 1 finding shall be issued by the competent authority when any significant non-compliance is detected with the applicable requirements of Regulation (EU) 2018/1139 and its delegated and implementing acts, with the organisation's procedures and manuals, or with the organisation's certificate including the terms of approval, which lowers safety or seriously endangers flight safety.

Level 1 findings shall also include:

- (1) any failure to grant the competent authority access to the organisation's facilities referred to in point 145.A.140 during normal operating hours and after two written requests;
 - (2) obtaining the organisation certificate or maintaining its validity by falsification of the submitted documentary evidence;
 - (3) any evidence of malpractice or fraudulent use of the organisation certificate;
 - (4) the lack of an accountable manager.
- (c) A level 2 finding shall be issued by the competent authority when any non-compliance is detected with the applicable requirements of Regulation (EU) 2018/1139 and its delegated and implementing acts, with the organisation's procedures and manuals, or with the organisation's certificate including the terms of approval, which is not classified as a level 1 finding.
 - (d) When a finding is detected during oversight or by any other means, the competent authority shall, without prejudice to any additional action required by Regulation (EU) 2018/1139 and its delegated and implementing acts, communicate in writing the finding to the organisation and request corrective action to address the non-compliance identified. If a level 1 finding directly relates to an aircraft, the competent authority shall inform the competent authority of the Member State in which the aircraft is registered.
 - (1) If there are any level 1 findings, the competent authority shall take immediate and appropriate action to prohibit or limit the activities of the organisation involved and, if appropriate, it shall take action to revoke the certificate or to limit or suspend it in whole or in part, depending on the extent of the level 1 finding, until successful corrective action has been taken by the organisation.
 - (2) If there are any level 2 findings, the competent authority shall:
 - (i) grant the organisation a corrective action implementation period that is appropriate to the nature of the finding, and that in any case shall initially not be more than 3 months. The period shall commence from the date of the written communication of the finding to the organisation requesting corrective action to address the non-compliance identified. At the end of that period, and subject to the nature of the finding, the competent authority may extend the 3-month period provided that a corrective action plan has been agreed with the competent authority;
 - (ii) assess the corrective action plan and implementation plan proposed by the organisation, and if the assessment concludes that they are sufficient to address the non-compliance, accept them.
 - (3) If the organisation fails to submit an acceptable corrective action plan, or fails to perform the corrective action within the time period accepted or extended by the competent authority, the finding shall be raised to level 1 and action shall be taken as laid down in point (d)(1).

- (4) The competent authority shall record all the findings that it has raised or that have been communicated to it in accordance with point (e) and, where applicable, the enforcement measures it has applied, as well as all corrective actions and the dates of the action closures for all the findings.
- (e) Without prejudice to any additional enforcement measures, when an authority performing the oversight tasks pursuant to point 145.B.300(d) identifies any non-compliance with the applicable requirements of Regulation (EU) 2018/1139 and its delegated and implementing acts by an organisation certified by the competent authority of another Member State or the Agency, it shall inform that competent authority and provide an indication of the level of the finding.
- (f) The competent authority may issue observations for any of the following cases not requiring level 1 or level 2 findings:
- (1) for any item whose performance has been assessed to be ineffective;
 - (2) when it has been identified that an item has the potential to cause a non-compliance under points (b) or (c);
 - (3) when suggestions or improvements are of interest for the overall safety performance of the organisation.

The observations issued under this point shall be communicated in writing to the organisation and recorded by the competent authority.

145.B.355 **Suspension, limitation and revocation**

The competent authority shall:

- (a) suspend a certificate when it considers that there are reasonable grounds that such action is necessary to prevent a credible threat to aircraft safety;
- (b) suspend, revoke or limit a certificate if such action is required pursuant to point 145.B.350;
- (c) suspend or limit in whole or in part a certificate if unforeseeable circumstances outside the control of the competent authority prevent its inspectors from discharging their oversight responsibilities over the oversight planning cycle.;

31. Appendix II is replaced by the following:

‘Appendix II

Class and rating system for the terms of approval of Part-145 maintenance organisations

- (a) Except as stated otherwise for the smallest organisations referred to in point (m), the table referred to in point (l) provides the possible classes and ratings to be used to establish the terms of approval of the certificate of the organisation approved in accordance with Annex II (Part-145) . An organisation must be granted terms of approval that range from a single class and rating with limitations to all classes and ratings with limitations.
- (b) In addition to the table in point (l), each maintenance organisation is required to indicate its scope of work in its MOE.
- (c) Within the approval class(es) and rating(s) established by the competent authority, the scope of work specified in the MOE defines the exact limits of its approval. It is therefore essential that the approval class(es) and rating(s) and the organisation’s scope of work match.
- (d) A *category A class rating* means that the maintenance organisation may carry out maintenance on aircraft and components (including engines and/or auxiliary power units (APUs)), in accordance with the aircraft maintenance data or, if agreed by the competent authority, in accordance with the component maintenance data, only while such components are fitted to the aircraft. Nevertheless, such an A-rated maintenance organisation may temporarily remove a component for maintenance in order to improve access to that component, except when its removal generates the need for additional maintenance that the organisation is not approved to perform. Such removal of component for maintenance by A-rated maintenance organisation shall be subject to an appropriate control procedure in the MOE.

The limitation column must specify the scope of such maintenance, thereby indicating the extent of the approval.

- (e) *Category A class ratings* are subdivided into “Base” or “Line” maintenance categories. Such an organisation may be approved for either “Base” or “Line” maintenance, or both. It should be noted that a “Line” facility located at a main base facility requires a “Line” maintenance approval.
- (f) A *category B class rating* means that the maintenance organisation may carry out maintenance on uninstalled engines and/or APUs and engine and/or APU components, in accordance with the engine and/or APU maintenance data or, if agreed by the competent authority, in accordance with the component maintenance data, only while such components are fitted to the engine and/or the APU. Nevertheless, such a B-rated approved maintenance organisation may temporarily remove a component for maintenance in order to improve access to that component, except when its removal generates the need for additional maintenance that the organisation is not approved to perform.

The limitation column must specify the scope of such maintenance, thereby indicating the extent of the approval.

A maintenance organisation that is approved with a category B class rating may also carry out maintenance on an installed engine during aircraft base and line maintenance, provided that an appropriate control procedure in the MOE has been approved by the competent authority. The scope of work in the MOE shall reflect those activities if they are permitted by the competent authority.

- (g) A *category C class rating* means that the maintenance organisation may carry out maintenance on uninstalled components (excluding complete engines and APUs) that are intended to be fitted on the aircraft or the engine/APU.

The limitation column must specify the scope of such maintenance, thereby indicating the extent of the approval.

A maintenance organisation that is approved with a category C class rating may also carry out maintenance on an installed component (other than a complete engine/APU) during aircraft base and line maintenance, or at an engine/APU maintenance facility provided that an appropriate control procedure in the MOE has been approved by the competent authority. The scope of work in the MOE shall reflect those activities if they are permitted by the competent authority.

- (h) A *category D class rating* is a self-contained class rating that is not necessarily related to a specific aircraft, engine or other component. The D1 – Non-Destructive Testing (NDT) rating is only necessary for a maintenance organisation that carries out NDT as a particular task for another organisation. A maintenance organisation that is approved with a class rating in the A, B or C category may carry out NDT on products that it maintains without the need for a D1 class rating provided that the MOE contains appropriate NDT procedures.
- (i) The *limitation* column is intended to give competent authorities the flexibility to customise an approval for any particular organisation. Ratings may only be mentioned on the approval if they are appropriately limited. The table in point (l) specifies the types of limitations that are possible. It is acceptable to stress in the limitation column the maintenance task rather than the type or manufacturer of the aircraft or engine, if that is more appropriate to the organisation (an example could be avionics systems installations and the related maintenance). If that is mentioned in the limitation column, it indicates that the maintenance organisation is approved to carry out maintenance up to and including that particular type/task.
- (j) When reference is made to the *series*, *type* and *group* in the limitation column of class A and B, it shall be understood as follows:

- “series” means a specific type series such as the Airbus 300, 310 or 319, or the Boeing 737-300 series, the RB211-524 series, the Cessna 150 or Cessna 172, the Beech 55 series, the continental O-200 series, etc.,
- “type” means a specific type or model such as the Airbus 310-240 type, the RB 211-524 B4 type, or the Cessna 172RG type.

Any number of series or types may be quoted,

- “group” means, for example, Cessna single piston engine aircraft or Lycoming non-supercharged piston engines, etc.

- (k) By way of derogation from point 145.A.85(a)(1), when a component *capability list* is used that could be subject to frequent amendments, then the organisation may propose to include such amendments in the procedure referred to in point 145.A.85(c) for changes not requiring prior approval.

(l) Table

CLASS	RATING	LIMITATION	BASE	LINE
AIRCRAFT	A1 Aeroplanes above 5 700 kg maximum take-off mass (MTOM)	[Shall state the aeroplane manufacturer or the group or series or type and/or the maintenance tasks] <i>Example: Airbus A320 Series</i>	[YES/NO] (*)	[YES/NO] (*)
	A2 Aeroplanes of 5 700 kg MTOM and below	[Shall state the aeroplane manufacturer or the group or series or type and/or the maintenance tasks] <i>Example: DHC-6 Twin Otter Series</i> State whether the issuing of airworthiness review certificates is authorised (only possible for aircraft covered by Annex Vb (Part-ML))	[YES/NO] (*)	[YES/NO] (*)
	A3 Helicopters	[Shall state the helicopter manufacturer or the group or series or type and/or the maintenance task(s)] <i>Example: Robinson R44</i> State whether the issuing of airworthiness review certificates is authorised (only possible for aircraft covered by Annex Vb (Part-ML))	[YES/NO] (*)	[YES/NO] (*)
	A4 Aircraft other than A1, A2 and A3 aircraft	[Shall state the aircraft category (sailplane, balloon, airship, etc.), the manufacturer or group or series or type and/or the maintenance task(s)] State whether the issuing of airworthiness review certificates is authorised (only possible for aircraft covered by Annex Vb (Part-ML))	[YES/NO] (*)	[YES/NO] (*)
ENGINES	B1 Turbine	[Shall state the engine series or type and/or the maintenance task(s)] <i>Example: PT6A Series</i>		
	B2 Piston	[Shall state the engine manufacturer or group or series or type and/or the maintenance task(s)]		
	B3 APU	[Shall state the engine manufacturer or series or type and/or the maintenance task(s)]		

COMPO- NENTS OTHER THAN COMPLETE ENGINES OR APUs	C1 Air Cond & Press	[Shall state the aircraft type or aircraft manufacturer or component manufacturer or the particular component and/or cross-refer to a capability list in the exposition and/or the maintenance task(s)] <i>Example: PT6A Fuel Control</i>
	C2 Auto Flight	
	C3 Comms and Nav	
	C4 Doors — Hatches	
	C5 Electrical Power & Lights	
	C6 Equipment	
	C7 Engine – APU	
	C8 Flight Controls	
	C9 Fuel	
	C10 Helicopter – Rotors	
	C11 Helicopter – Trans	
	C12 Hydraulic Power	
	C13 Indicating – recording system	
	C14 Landing Gear	
	C15 Oxygen	
	C16 Propellers	
	C17 Pneumatic & Vacuum	
	C18 Protection ice/rain/fire	
	C19 Windows	
	C20 Structural	
	C21 Water ballast	
	C22 Propulsion Augmentation	
SPECIALISED SERVICES	D1 Non-Destructive Testing	[Shall state particular NDT method(s)]

(*) Delete as appropriate.

- (m) A maintenance organisation which employs only one person to both plan and carry out all its maintenance activities can only hold limited terms of approval. The maximum permissible limits are as follows:

CLASS	RATING	LIMITATION
AIRCRAFT	A2	PISTON ENGINE AEROPLANE OF 5 700 KG MTOM OR LESS
AIRCRAFT	A3	SINGLE PISTON ENGINE HELICOPTER OF 3 175 KG MTOM OR LESS
AIRCRAFT	A4	NO LIMITATIONS
ENGINES	B2	LESS THAN 450 HP
COMPONENTS OTHER THAN COMPLETE ENGINES OR APUs	C1 TO C22	AS PER CAPABILITY LIST
SPECIALISED SERVICES	D1 NDT	NDT METHOD(S) TO BE SPECIFIED

It should be noted that such an organisation may be further limited by the competent authority in the terms of approval depending on the capabilities of the particular organisation.’.

ANNEX III

In Annex Vb (Part-ML), point ML.A.906(a), the introductory phrase is replaced by the following:

‘When importing an aircraft into a Member State’s register from a third country or from a regulatory system where Regulation (EU) 2018/1139 does not apply, the applicant shall:’.

ANNEX IV

In Annex I (Part-M), point M.A.502(c), the third sentence is replaced by the following:

‘Such engine maintenance organisation may temporarily remove the component for maintenance if this is necessary to improve access to the component, except where additional maintenance is required due to the removal.’

COMMISSION IMPLEMENTING REGULATION (EU) 2021/1964**of 11 November 2021****laying down technical information for the calculation of technical provisions and basic own funds for reporting with reference dates from 30 September 2021 until 30 December 2021 in accordance with Directive 2009/138/EC of the European Parliament and of the Council on the taking-up and pursuit of the business of Insurance and Reinsurance****(Text with EEA relevance)**

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Directive 2009/138/EC of the European Parliament and of the Council of 25 November 2009 on the taking-up and pursuit of the business of Insurance and Reinsurance (Solvency II) ⁽¹⁾, and in particular the third subparagraph of Article 77e(2) thereof,

Whereas:

- (1) In order to ensure uniform conditions for the calculation of technical provisions and basic own funds by insurance and reinsurance undertakings for the purposes of Directive 2009/138/EC, technical information on relevant risk-free interest rate term structures, fundamental spreads for the calculation of the matching adjustment and volatility adjustments should be laid down for every reference date.
- (2) Insurance and re-insurance undertakings should use the technical information, which is based on market data related to the end of the last month preceding the first reporting reference date to which this Regulation applies. On 5 October 2021, the European Insurance and Occupational Pensions Authority provided the Commission with the technical information related to end of September 2021 market data. That information was published on 5 October 2021 in accordance with Article 77e(1) of Directive 2009/138/EC.
- (3) Given the need for the immediate availability of the technical information, it is important that this Regulation enters into force as a matter of urgency.
- (4) For prudential reasons it is necessary that insurance and reinsurance undertakings use the same technical information for calculating technical provisions and basic own funds irrespective of the date on which they report to their competent authorities. This Regulation should therefore apply from the first reporting reference date to which this Regulation applies.
- (5) To provide legal certainty as soon as possible, it is duly justified on imperative grounds of urgency related to the availability of the relevant risk-free interest rate term structure that measures provided for in this Regulation be adopted in accordance with Article 8, in conjunction with Article 4, of Regulation (EU) No 182/2011 of the European Parliament and of the Council ⁽²⁾,

HAS ADOPTED THIS REGULATION:

Article 1

1. Insurance and reinsurance undertakings shall use the technical information referred to in paragraph 2 when calculating technical provisions and basic own funds for reporting with reference dates from 30 September 2021 until 30 December 2021.

⁽¹⁾ OJ L 335, 17.12.2009, p. 1.

⁽²⁾ Regulation (EU) No 182/2011 of the European Parliament and of the Council of 16 February 2011 laying down the rules and general principles concerning mechanisms for control by Member States of the Commission's exercise of implementing powers (OJ L 55, 28.2.2011, p. 13).

2. For each relevant currency, the technical information used to calculate the best estimate in accordance with Article 77 of Directive 2009/138/EC, the matching adjustment in accordance with Article 77c of that Directive and the volatility adjustment in accordance with Article 77d of that Directive shall be the following:

- (a) the relevant risk-free rate term structures set out in Annex I;
- (b) the fundamental spreads for the calculation of the matching adjustment set out in Annex II;
- (c) for each relevant national insurance market, the volatility adjustments set out in Annex III.

Article 2

This Regulation shall enter into force on the day following that of its publication in the *Official Journal of the European Union*.

It shall apply from 30 September 2021.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

Done at Brussels, 11 November 2021.

For the Commission
The President
Ursula VON DER LEYEN

ANNEX I

Relevant risk-free interest rate term structures to calculate the best estimate, without any matching adjustment or volatility adjustment

Term to maturity (in years)	Euro	Czech koruna	Danish krone	Forint	Krona	Kuna
1	- 0,595%	2,325%	- 0,605%	1,411%	- 0,092%	- 0,194%
2	- 0,525%	2,609%	- 0,535%	1,804%	0,017%	- 0,115%
3	- 0,445%	2,671%	- 0,455%	2,108%	0,148%	- 0,071%
4	- 0,366%	2,637%	- 0,376%	2,360%	0,283%	- 0,028%
5	- 0,286%	2,573%	- 0,296%	2,560%	0,409%	0,037%
6	- 0,206%	2,503%	- 0,216%	2,723%	0,488%	0,135%
7	- 0,145%	2,438%	- 0,155%	2,856%	0,549%	0,269%
8	- 0,069%	2,387%	- 0,079%	2,963%	0,614%	0,437%
9	0,001%	2,350%	- 0,009%	3,050%	0,697%	0,635%
10	0,066%	2,330%	0,056%	3,124%	0,810%	0,816%
11	0,118%	2,326%	0,108%	3,185%	0,959%	0,975%
12	0,180%	2,333%	0,170%	3,245%	1,120%	1,115%
13	0,237%	2,349%	0,226%	3,306%	1,277%	1,240%
14	0,281%	2,369%	0,271%	3,373%	1,423%	1,353%
15	0,311%	2,393%	0,301%	3,448%	1,556%	1,456%
16	0,328%	2,419%	0,317%	3,517%	1,677%	1,550%
17	0,339%	2,447%	0,328%	3,578%	1,786%	1,637%
18	0,352%	2,476%	0,342%	3,632%	1,884%	1,716%
19	0,374%	2,504%	0,364%	3,681%	1,972%	1,790%
20	0,407%	2,533%	0,397%	3,724%	2,052%	1,859%
21	0,453%	2,561%	0,443%	3,763%	2,125%	1,923%
22	0,509%	2,589%	0,499%	3,798%	2,191%	1,982%
23	0,571%	2,616%	0,562%	3,831%	2,252%	2,038%
24	0,638%	2,642%	0,628%	3,860%	2,308%	2,091%
25	0,706%	2,668%	0,697%	3,887%	2,359%	2,140%
26	0,776%	2,692%	0,767%	3,912%	2,407%	2,187%
27	0,846%	2,716%	0,837%	3,935%	2,451%	2,231%
28	0,915%	2,739%	0,906%	3,957%	2,491%	2,272%
29	0,982%	2,761%	0,974%	3,976%	2,529%	2,311%
30	1,049%	2,783%	1,041%	3,995%	2,565%	2,348%
31	1,113%	2,803%	1,105%	4,012%	2,598%	2,384%
32	1,176%	2,823%	1,168%	4,028%	2,629%	2,417%

33	1,236%	2,842%	1,229%	4,043%	2,659%	2,449%
34	1,295%	2,861%	1,288%	4,057%	2,686%	2,479%
35	1,351%	2,878%	1,344%	4,071%	2,712%	2,508%
36	1,406%	2,895%	1,399%	4,083%	2,737%	2,535%
37	1,458%	2,912%	1,452%	4,095%	2,760%	2,562%
38	1,509%	2,927%	1,502%	4,106%	2,782%	2,587%
39	1,557%	2,942%	1,551%	4,117%	2,803%	2,611%
40	1,604%	2,957%	1,598%	4,127%	2,823%	2,634%
41	1,649%	2,971%	1,643%	4,136%	2,842%	2,656%
42	1,692%	2,985%	1,686%	4,145%	2,860%	2,677%
43	1,734%	2,998%	1,728%	4,154%	2,877%	2,697%
44	1,774%	3,010%	1,768%	4,162%	2,893%	2,716%
45	1,812%	3,022%	1,807%	4,170%	2,909%	2,735%
46	1,849%	3,034%	1,844%	4,178%	2,924%	2,753%
47	1,885%	3,045%	1,879%	4,185%	2,938%	2,770%
48	1,919%	3,056%	1,914%	4,191%	2,952%	2,787%
49	1,952%	3,066%	1,947%	4,198%	2,965%	2,803%
50	1,984%	3,076%	1,979%	4,204%	2,978%	2,818%
51	2,015%	3,086%	2,010%	4,210%	2,990%	2,833%
52	2,044%	3,095%	2,040%	4,216%	3,002%	2,847%
53	2,073%	3,105%	2,068%	4,222%	3,013%	2,861%
54	2,101%	3,113%	2,096%	4,227%	3,024%	2,874%
55	2,127%	3,122%	2,123%	4,232%	3,034%	2,887%
56	2,153%	3,130%	2,149%	4,237%	3,044%	2,899%
57	2,178%	3,138%	2,174%	4,242%	3,054%	2,911%
58	2,202%	3,146%	2,198%	4,246%	3,063%	2,923%
59	2,225%	3,153%	2,221%	4,251%	3,072%	2,934%
60	2,248%	3,160%	2,244%	4,255%	3,081%	2,945%
61	2,270%	3,168%	2,266%	4,259%	3,090%	2,956%
62	2,291%	3,174%	2,287%	4,263%	3,098%	2,966%
63	2,312%	3,181%	2,308%	4,267%	3,106%	2,976%
64	2,332%	3,187%	2,328%	4,271%	3,114%	2,985%
65	2,351%	3,194%	2,347%	4,274%	3,121%	2,995%
66	2,370%	3,200%	2,366%	4,278%	3,128%	3,004%
67	2,388%	3,206%	2,384%	4,281%	3,135%	3,013%
68	2,405%	3,211%	2,402%	4,284%	3,142%	3,021%
69	2,423%	3,217%	2,419%	4,288%	3,149%	3,029%

70	2,439%	3,222%	2,436%	4,291%	3,155%	3,037%
71	2,456%	3,227%	2,452%	4,294%	3,161%	3,045%
72	2,471%	3,233%	2,468%	4,297%	3,167%	3,053%
73	2,487%	3,238%	2,483%	4,299%	3,173%	3,060%
74	2,502%	3,242%	2,498%	4,302%	3,179%	3,068%
75	2,516%	3,247%	2,513%	4,305%	3,185%	3,075%
76	2,530%	3,252%	2,527%	4,307%	3,190%	3,081%
77	2,544%	3,256%	2,541%	4,310%	3,195%	3,088%
78	2,558%	3,261%	2,554%	4,312%	3,201%	3,095%
79	2,571%	3,265%	2,567%	4,315%	3,206%	3,101%
80	2,583%	3,269%	2,580%	4,317%	3,211%	3,107%
81	2,596%	3,273%	2,593%	4,320%	3,215%	3,113%
82	2,608%	3,277%	2,605%	4,322%	3,220%	3,119%
83	2,620%	3,281%	2,617%	4,324%	3,225%	3,125%
84	2,632%	3,285%	2,629%	4,326%	3,229%	3,131%
85	2,643%	3,288%	2,640%	4,328%	3,233%	3,136%
86	2,654%	3,292%	2,651%	4,330%	3,238%	3,141%
87	2,665%	3,296%	2,662%	4,332%	3,242%	3,147%
88	2,675%	3,299%	2,673%	4,334%	3,246%	3,152%
89	2,686%	3,302%	2,683%	4,336%	3,250%	3,157%
90	2,696%	3,306%	2,693%	4,338%	3,254%	3,162%
91	2,706%	3,309%	2,703%	4,340%	3,258%	3,167%
92	2,715%	3,312%	2,713%	4,341%	3,261%	3,171%
93	2,725%	3,315%	2,722%	4,343%	3,265%	3,176%
94	2,734%	3,318%	2,732%	4,345%	3,269%	3,180%
95	2,743%	3,321%	2,741%	4,346%	3,272%	3,185%
96	2,752%	3,324%	2,750%	4,348%	3,275%	3,189%
97	2,761%	3,327%	2,758%	4,350%	3,279%	3,193%
98	2,769%	3,330%	2,767%	4,351%	3,282%	3,197%
99	2,778%	3,332%	2,775%	4,353%	3,285%	3,201%
100	2,786%	3,335%	2,783%	4,354%	3,288%	3,205%
101	2,794%	3,338%	2,791%	4,356%	3,291%	3,209%
102	2,802%	3,340%	2,799%	4,357%	3,294%	3,213%
103	2,810%	3,343%	2,807%	4,358%	3,297%	3,217%
104	2,817%	3,345%	2,815%	4,360%	3,300%	3,221%
105	2,825%	3,348%	2,822%	4,361%	3,303%	3,224%
106	2,832%	3,350%	2,829%	4,362%	3,306%	3,228%
107	2,839%	3,352%	2,837%	4,364%	3,309%	3,231%

108	2,846%	3,355%	2,844%	4,365%	3,311%	3,235%
109	2,853%	3,357%	2,851%	4,366%	3,314%	3,238%
110	2,860%	3,359%	2,857%	4,367%	3,317%	3,241%
111	2,866%	3,361%	2,864%	4,369%	3,319%	3,244%
112	2,873%	3,363%	2,871%	4,370%	3,322%	3,248%
113	2,879%	3,365%	2,877%	4,371%	3,324%	3,251%
114	2,886%	3,368%	2,883%	4,372%	3,327%	3,254%
115	2,892%	3,370%	2,890%	4,373%	3,329%	3,257%
116	2,898%	3,372%	2,896%	4,374%	3,331%	3,260%
117	2,904%	3,373%	2,902%	4,375%	3,334%	3,263%
118	2,910%	3,375%	2,908%	4,376%	3,336%	3,266%
119	2,915%	3,377%	2,913%	4,377%	3,338%	3,268%
120	2,921%	3,379%	2,919%	4,378%	3,340%	3,271%
121	2,927%	3,381%	2,925%	4,379%	3,342%	3,274%
122	2,932%	3,383%	2,930%	4,380%	3,345%	3,276%
123	2,938%	3,384%	2,936%	4,381%	3,347%	3,279%
124	2,943%	3,386%	2,941%	4,382%	3,349%	3,282%
125	2,948%	3,388%	2,946%	4,383%	3,351%	3,284%
126	2,953%	3,390%	2,951%	4,384%	3,353%	3,287%
127	2,958%	3,391%	2,956%	4,385%	3,355%	3,289%
128	2,963%	3,393%	2,961%	4,386%	3,356%	3,292%
129	2,968%	3,395%	2,966%	4,387%	3,358%	3,294%
130	2,973%	3,396%	2,971%	4,388%	3,360%	3,296%
131	2,978%	3,398%	2,976%	4,389%	3,362%	3,299%
132	2,983%	3,399%	2,981%	4,390%	3,364%	3,301%
133	2,987%	3,401%	2,985%	4,390%	3,366%	3,303%
134	2,992%	3,402%	2,990%	4,391%	3,367%	3,305%
135	2,996%	3,404%	2,994%	4,392%	3,369%	3,308%
136	3,001%	3,405%	2,999%	4,393%	3,371%	3,310%
137	3,005%	3,406%	3,003%	4,394%	3,372%	3,312%
138	3,009%	3,408%	3,008%	4,394%	3,374%	3,314%
139	3,014%	3,409%	3,012%	4,395%	3,376%	3,316%
140	3,018%	3,411%	3,016%	4,396%	3,377%	3,318%
141	3,022%	3,412%	3,020%	4,397%	3,379%	3,320%
142	3,026%	3,413%	3,024%	4,397%	3,380%	3,322%
143	3,030%	3,415%	3,028%	4,398%	3,382%	3,324%
144	3,034%	3,416%	3,032%	4,399%	3,384%	3,326%

145	3,038%	3,417%	3,036%	4,399%	3,385%	3,328%
146	3,042%	3,418%	3,040%	4,400%	3,386%	3,330%
147	3,046%	3,420%	3,044%	4,401%	3,388%	3,331%
148	3,049%	3,421%	3,048%	4,401%	3,389%	3,333%
149	3,053%	3,422%	3,051%	4,402%	3,391%	3,335%
150	3,057%	3,423%	3,055%	4,403%	3,392%	3,337%

Term to maturity (in years)	Lev	Pound sterling	Romanian leu	Zloty	Króna	Norwegian krone
1	- 0,645%	0,354%	2,502%	0,090%	2,332%	0,859%
2	- 0,575%	0,628%	2,861%	0,586%	2,689%	1,232%
3	- 0,496%	0,757%	3,142%	0,891%	2,960%	1,440%
4	- 0,416%	0,842%	3,375%	1,141%	3,168%	1,556%
5	- 0,336%	0,902%	3,559%	1,353%	3,347%	1,628%
6	- 0,256%	0,946%	3,712%	1,539%	3,507%	1,673%
7	- 0,195%	0,998%	3,840%	1,702%	3,643%	1,707%
8	- 0,119%	1,027%	3,947%	1,848%	3,751%	1,739%
9	- 0,049%	1,059%	4,037%	1,979%	3,829%	1,773%
10	0,015%	1,101%	4,119%	2,099%	3,885%	1,812%
11	0,068%	1,133%	4,180%	2,202%	3,926%	1,856%
12	0,129%	1,154%	4,223%	2,290%	3,955%	1,904%
13	0,186%	1,168%	4,252%	2,367%	3,975%	1,954%
14	0,230%	1,177%	4,271%	2,434%	3,989%	2,004%
15	0,260%	1,184%	4,282%	2,494%	3,998%	2,053%
16	0,276%	1,188%	4,287%	2,547%	4,004%	2,101%
17	0,287%	1,192%	4,287%	2,595%	4,006%	2,149%
18	0,301%	1,196%	4,284%	2,639%	4,006%	2,194%
19	0,322%	1,201%	4,279%	2,679%	4,005%	2,238%
20	0,356%	1,206%	4,271%	2,715%	4,002%	2,280%
21	0,403%	1,211%	4,262%	2,749%	3,998%	2,321%
22	0,459%	1,217%	4,252%	2,780%	3,993%	2,360%
23	0,523%	1,220%	4,241%	2,810%	3,988%	2,397%
24	0,590%	1,222%	4,229%	2,837%	3,982%	2,432%
25	0,660%	1,220%	4,217%	2,862%	3,976%	2,466%
26	0,731%	1,215%	4,205%	2,886%	3,969%	2,499%
27	0,802%	1,207%	4,193%	2,908%	3,963%	2,530%
28	0,872%	1,194%	4,180%	2,929%	3,956%	2,560%

29	0,941%	1,176%	4,168%	2,948%	3,949%	2,588%
30	1,008%	1,153%	4,156%	2,967%	3,942%	2,616%
31	1,074%	1,126%	4,144%	2,985%	3,936%	2,642%
32	1,138%	1,096%	4,132%	3,001%	3,929%	2,666%
33	1,199%	1,065%	4,121%	3,017%	3,923%	2,690%
34	1,259%	1,036%	4,109%	3,032%	3,916%	2,713%
35	1,316%	1,008%	4,098%	3,047%	3,910%	2,735%
36	1,372%	0,983%	4,088%	3,061%	3,904%	2,756%
37	1,425%	0,960%	4,077%	3,074%	3,898%	2,776%
38	1,476%	0,942%	4,067%	3,086%	3,892%	2,795%
39	1,525%	0,926%	4,057%	3,098%	3,886%	2,814%
40	1,573%	0,914%	4,048%	3,109%	3,880%	2,832%
41	1,619%	0,906%	4,039%	3,120%	3,875%	2,849%
42	1,662%	0,901%	4,030%	3,131%	3,870%	2,865%
43	1,705%	0,899%	4,021%	3,141%	3,864%	2,881%
44	1,745%	0,901%	4,013%	3,151%	3,859%	2,896%
45	1,784%	0,906%	4,004%	3,160%	3,855%	2,911%
46	1,822%	0,914%	3,997%	3,169%	3,850%	2,925%
47	1,858%	0,925%	3,989%	3,177%	3,845%	2,938%
48	1,893%	0,939%	3,982%	3,186%	3,841%	2,951%
49	1,927%	0,957%	3,974%	3,194%	3,836%	2,964%
50	1,959%	0,977%	3,968%	3,201%	3,832%	2,976%
51	1,990%	1,001%	3,961%	3,209%	3,828%	2,988%
52	2,020%	1,027%	3,954%	3,216%	3,824%	2,999%
53	2,049%	1,055%	3,948%	3,223%	3,820%	3,010%
54	2,077%	1,084%	3,942%	3,229%	3,817%	3,020%
55	2,105%	1,114%	3,936%	3,236%	3,813%	3,030%
56	2,131%	1,145%	3,930%	3,242%	3,809%	3,040%
57	2,156%	1,177%	3,925%	3,248%	3,806%	3,050%
58	2,181%	1,208%	3,919%	3,254%	3,803%	3,059%
59	2,204%	1,240%	3,914%	3,260%	3,799%	3,068%
60	2,227%	1,272%	3,909%	3,265%	3,796%	3,077%
61	2,249%	1,303%	3,904%	3,270%	3,793%	3,085%
62	2,271%	1,335%	3,899%	3,276%	3,790%	3,093%
63	2,292%	1,365%	3,895%	3,281%	3,787%	3,101%
64	2,312%	1,396%	3,890%	3,285%	3,784%	3,109%
65	2,331%	1,426%	3,886%	3,290%	3,782%	3,116%

66	2,351%	1,455%	3,882%	3,295%	3,779%	3,123%
67	2,369%	1,484%	3,878%	3,299%	3,777%	3,130%
68	2,387%	1,513%	3,874%	3,304%	3,774%	3,137%
69	2,404%	1,541%	3,870%	3,308%	3,772%	3,144%
70	2,421%	1,568%	3,866%	3,312%	3,769%	3,150%
71	2,438%	1,595%	3,862%	3,316%	3,767%	3,157%
72	2,454%	1,621%	3,859%	3,320%	3,765%	3,163%
73	2,469%	1,647%	3,855%	3,323%	3,762%	3,169%
74	2,485%	1,672%	3,852%	3,327%	3,760%	3,174%
75	2,499%	1,696%	3,848%	3,331%	3,758%	3,180%
76	2,514%	1,720%	3,845%	3,334%	3,756%	3,186%
77	2,528%	1,744%	3,842%	3,338%	3,754%	3,191%
78	2,541%	1,767%	3,839%	3,341%	3,752%	3,196%
79	2,555%	1,789%	3,836%	3,344%	3,750%	3,201%
80	2,568%	1,811%	3,833%	3,347%	3,748%	3,206%
81	2,580%	1,833%	3,830%	3,350%	3,747%	3,211%
82	2,593%	1,854%	3,827%	3,353%	3,745%	3,216%
83	2,605%	1,874%	3,825%	3,356%	3,743%	3,220%
84	2,617%	1,894%	3,822%	3,359%	3,741%	3,225%
85	2,628%	1,914%	3,819%	3,362%	3,740%	3,229%
86	2,639%	1,933%	3,817%	3,365%	3,738%	3,233%
87	2,650%	1,952%	3,814%	3,367%	3,737%	3,238%
88	2,661%	1,971%	3,812%	3,370%	3,735%	3,242%
89	2,672%	1,989%	3,809%	3,373%	3,733%	3,246%
90	2,682%	2,006%	3,807%	3,375%	3,732%	3,250%
91	2,692%	2,024%	3,805%	3,378%	3,731%	3,254%
92	2,702%	2,040%	3,803%	3,380%	3,729%	3,257%
93	2,711%	2,057%	3,800%	3,382%	3,728%	3,261%
94	2,721%	2,073%	3,798%	3,385%	3,726%	3,265%
95	2,730%	2,089%	3,796%	3,387%	3,725%	3,268%
96	2,739%	2,105%	3,794%	3,389%	3,724%	3,272%
97	2,748%	2,120%	3,792%	3,391%	3,722%	3,275%
98	2,757%	2,135%	3,790%	3,393%	3,721%	3,278%
99	2,765%	2,150%	3,788%	3,396%	3,720%	3,281%
100	2,773%	2,164%	3,786%	3,398%	3,719%	3,285%
101	2,781%	2,178%	3,785%	3,400%	3,718%	3,288%
102	2,789%	2,192%	3,783%	3,401%	3,717%	3,291%

103	2,797%	2,205%	3,781%	3,403%	3,715%	3,294%
104	2,805%	2,219%	3,779%	3,405%	3,714%	3,297%
105	2,813%	2,232%	3,778%	3,407%	3,713%	3,300%
106	2,820%	2,245%	3,776%	3,409%	3,712%	3,302%
107	2,827%	2,257%	3,774%	3,411%	3,711%	3,305%
108	2,834%	2,270%	3,773%	3,412%	3,710%	3,308%
109	2,841%	2,282%	3,771%	3,414%	3,709%	3,311%
110	2,848%	2,294%	3,769%	3,416%	3,708%	3,313%
111	2,855%	2,305%	3,768%	3,418%	3,707%	3,316%
112	2,862%	2,317%	3,766%	3,419%	3,706%	3,318%
113	2,868%	2,328%	3,765%	3,421%	3,705%	3,321%
114	2,874%	2,339%	3,764%	3,422%	3,704%	3,323%
115	2,881%	2,350%	3,762%	3,424%	3,703%	3,326%
116	2,887%	2,361%	3,761%	3,425%	3,702%	3,328%
117	2,893%	2,371%	3,759%	3,427%	3,702%	3,330%
118	2,899%	2,382%	3,758%	3,428%	3,701%	3,333%
119	2,905%	2,392%	3,757%	3,430%	3,700%	3,335%
120	2,911%	2,402%	3,755%	3,431%	3,699%	3,337%
121	2,916%	2,412%	3,754%	3,433%	3,698%	3,339%
122	2,922%	2,421%	3,753%	3,434%	3,697%	3,341%
123	2,927%	2,431%	3,752%	3,435%	3,697%	3,344%
124	2,933%	2,440%	3,750%	3,437%	3,696%	3,346%
125	2,938%	2,449%	3,749%	3,438%	3,695%	3,348%
126	2,943%	2,458%	3,748%	3,439%	3,694%	3,350%
127	2,948%	2,467%	3,747%	3,440%	3,694%	3,352%
128	2,954%	2,476%	3,746%	3,442%	3,693%	3,354%
129	2,959%	2,485%	3,744%	3,443%	3,692%	3,355%
130	2,963%	2,493%	3,743%	3,444%	3,691%	3,357%
131	2,968%	2,502%	3,742%	3,445%	3,691%	3,359%
132	2,973%	2,510%	3,741%	3,447%	3,690%	3,361%
133	2,978%	2,518%	3,740%	3,448%	3,689%	3,363%
134	2,982%	2,526%	3,739%	3,449%	3,689%	3,365%
135	2,987%	2,534%	3,738%	3,450%	3,688%	3,366%
136	2,991%	2,542%	3,737%	3,451%	3,687%	3,368%
137	2,996%	2,550%	3,736%	3,452%	3,687%	3,370%
138	3,000%	2,557%	3,735%	3,453%	3,686%	3,371%
139	3,005%	2,565%	3,734%	3,454%	3,686%	3,373%

140	3,009%	2,572%	3,733%	3,455%	3,685%	3,375%
141	3,013%	2,579%	3,732%	3,456%	3,684%	3,376%
142	3,017%	2,586%	3,731%	3,457%	3,684%	3,378%
143	3,021%	2,594%	3,730%	3,458%	3,683%	3,379%
144	3,025%	2,600%	3,729%	3,459%	3,683%	3,381%
145	3,029%	2,607%	3,729%	3,460%	3,682%	3,382%
146	3,033%	2,614%	3,728%	3,461%	3,681%	3,384%
147	3,037%	2,621%	3,727%	3,462%	3,681%	3,385%
148	3,041%	2,627%	3,726%	3,463%	3,680%	3,387%
149	3,044%	2,634%	3,725%	3,464%	3,680%	3,388%
150	3,048%	2,640%	3,724%	3,465%	3,679%	3,390%

Term to maturity (in years)	Swiss franc	Australian dollar	Baht	Canadian dollar	Chilean peso	Colombian peso
1	- 0,780%	- 0,001%	0,477%	0,616%	3,403%	2,840%
2	- 0,695%	0,214%	0,432%	0,831%	4,232%	4,188%
3	- 0,600%	0,465%	0,614%	1,104%	4,622%	5,196%
4	- 0,500%	0,703%	0,855%	1,309%	4,856%	5,905%
5	- 0,394%	0,911%	1,077%	1,446%	5,021%	6,402%
6	- 0,287%	1,072%	1,270%	1,549%	5,148%	6,763%
7	- 0,189%	1,231%	1,437%	1,640%	5,256%	7,038%
8	- 0,106%	1,362%	1,585%	1,727%	5,352%	7,260%
9	- 0,041%	1,471%	1,720%	1,805%	5,433%	7,455%
10	0,005%	1,564%	1,846%	1,870%	5,495%	7,615%
11	0,033%	1,663%	1,961%	1,922%	5,534%	7,719%
12	0,048%	1,749%	2,066%	1,963%	5,557%	7,774%
13	0,058%	1,808%	2,165%	1,997%	5,568%	7,794%
14	0,064%	1,846%	2,256%	2,026%	5,570%	7,788%
15	0,070%	1,874%	2,338%	2,052%	5,565%	7,762%
16	0,076%	1,897%	2,411%	2,075%	5,555%	7,721%
17	0,085%	1,917%	2,476%	2,096%	5,541%	7,669%
18	0,095%	1,933%	2,533%	2,116%	5,525%	7,610%
19	0,109%	1,945%	2,585%	2,135%	5,507%	7,545%
20	0,126%	1,953%	2,632%	2,154%	5,488%	7,476%
21	0,147%	1,957%	2,674%	2,173%	5,467%	7,406%
22	0,171%	1,957%	2,713%	2,191%	5,447%	7,334%
23	0,199%	1,953%	2,749%	2,210%	5,425%	7,262%

24	0,231%	1,946%	2,782%	2,228%	5,404%	7,190%
25	0,267%	1,935%	2,812%	2,247%	5,383%	7,120%
26	0,306%	1,921%	2,840%	2,267%	5,363%	7,050%
27	0,349%	1,908%	2,866%	2,286%	5,342%	6,983%
28	0,394%	1,897%	2,890%	2,307%	5,322%	6,917%
29	0,439%	1,890%	2,913%	2,327%	5,302%	6,853%
30	0,485%	1,890%	2,934%	2,349%	5,283%	6,791%
31	0,531%	1,896%	2,954%	2,371%	5,265%	6,731%
32	0,577%	1,908%	2,973%	2,393%	5,247%	6,673%
33	0,622%	1,924%	2,991%	2,416%	5,229%	6,617%
34	0,666%	1,944%	3,008%	2,438%	5,212%	6,564%
35	0,709%	1,966%	3,024%	2,461%	5,196%	6,512%
36	0,751%	1,990%	3,039%	2,483%	5,180%	6,462%
37	0,792%	2,015%	3,053%	2,505%	5,165%	6,415%
38	0,832%	2,040%	3,067%	2,526%	5,150%	6,369%
39	0,871%	2,067%	3,080%	2,547%	5,136%	6,325%
40	0,908%	2,093%	3,092%	2,568%	5,122%	6,282%
41	0,944%	2,120%	3,104%	2,588%	5,108%	6,242%
42	0,979%	2,146%	3,115%	2,608%	5,096%	6,203%
43	1,013%	2,173%	3,125%	2,627%	5,083%	6,165%
44	1,046%	2,199%	3,136%	2,645%	5,071%	6,129%
45	1,077%	2,224%	3,146%	2,664%	5,060%	6,094%
46	1,108%	2,249%	3,155%	2,681%	5,048%	6,061%
47	1,137%	2,274%	3,164%	2,698%	5,038%	6,029%
48	1,166%	2,298%	3,173%	2,715%	5,027%	5,998%
49	1,194%	2,321%	3,181%	2,731%	5,017%	5,968%
50	1,220%	2,344%	3,189%	2,747%	5,007%	5,939%
51	1,246%	2,366%	3,197%	2,762%	4,998%	5,911%
52	1,271%	2,388%	3,204%	2,777%	4,989%	5,885%
53	1,295%	2,409%	3,211%	2,791%	4,980%	5,859%
54	1,318%	2,429%	3,218%	2,805%	4,971%	5,834%
55	1,341%	2,449%	3,225%	2,819%	4,963%	5,810%
56	1,362%	2,469%	3,232%	2,832%	4,955%	5,787%
57	1,384%	2,487%	3,238%	2,845%	4,947%	5,764%
58	1,404%	2,506%	3,244%	2,857%	4,940%	5,743%
59	1,424%	2,523%	3,250%	2,869%	4,933%	5,722%
60	1,443%	2,541%	3,255%	2,881%	4,926%	5,701%

61	1,461%	2,557%	3,261%	2,892%	4,919%	5,682%
62	1,479%	2,574%	3,266%	2,903%	4,912%	5,663%
63	1,497%	2,589%	3,271%	2,914%	4,906%	5,644%
64	1,514%	2,605%	3,276%	2,924%	4,899%	5,626%
65	1,530%	2,620%	3,281%	2,934%	4,893%	5,609%
66	1,546%	2,634%	3,286%	2,944%	4,888%	5,592%
67	1,562%	2,648%	3,290%	2,953%	4,882%	5,576%
68	1,577%	2,662%	3,295%	2,963%	4,876%	5,560%
69	1,592%	2,675%	3,299%	2,972%	4,871%	5,545%
70	1,606%	2,688%	3,303%	2,980%	4,866%	5,530%
71	1,620%	2,701%	3,308%	2,989%	4,860%	5,515%
72	1,633%	2,713%	3,311%	2,997%	4,856%	5,501%
73	1,646%	2,725%	3,315%	3,006%	4,851%	5,487%
74	1,659%	2,737%	3,319%	3,013%	4,846%	5,474%
75	1,672%	2,748%	3,323%	3,021%	4,841%	5,461%
76	1,684%	2,760%	3,326%	3,029%	4,837%	5,448%
77	1,695%	2,770%	3,330%	3,036%	4,833%	5,436%
78	1,707%	2,781%	3,333%	3,043%	4,828%	5,424%
79	1,718%	2,791%	3,337%	3,050%	4,824%	5,412%
80	1,729%	2,801%	3,340%	3,057%	4,820%	5,401%
81	1,740%	2,811%	3,343%	3,064%	4,816%	5,390%
82	1,750%	2,821%	3,346%	3,070%	4,812%	5,379%
83	1,760%	2,830%	3,349%	3,076%	4,809%	5,368%
84	1,770%	2,839%	3,352%	3,083%	4,805%	5,358%
85	1,780%	2,848%	3,355%	3,089%	4,801%	5,348%
86	1,790%	2,857%	3,358%	3,095%	4,798%	5,338%
87	1,799%	2,865%	3,361%	3,100%	4,794%	5,328%
88	1,808%	2,873%	3,363%	3,106%	4,791%	5,319%
89	1,817%	2,881%	3,366%	3,111%	4,788%	5,309%
90	1,825%	2,889%	3,368%	3,117%	4,785%	5,300%
91	1,834%	2,897%	3,371%	3,122%	4,781%	5,291%
92	1,842%	2,905%	3,373%	3,127%	4,778%	5,283%
93	1,850%	2,912%	3,376%	3,132%	4,775%	5,274%
94	1,858%	2,920%	3,378%	3,137%	4,772%	5,266%
95	1,866%	2,927%	3,380%	3,142%	4,770%	5,258%
96	1,874%	2,934%	3,383%	3,147%	4,767%	5,250%
97	1,881%	2,941%	3,385%	3,152%	4,764%	5,242%

98	1,888%	2,947%	3,387%	3,156%	4,761%	5,235%
99	1,896%	2,954%	3,389%	3,161%	4,759%	5,227%
100	1,903%	2,960%	3,391%	3,165%	4,756%	5,220%
101	1,910%	2,967%	3,393%	3,169%	4,754%	5,213%
102	1,916%	2,973%	3,395%	3,173%	4,751%	5,206%
103	1,923%	2,979%	3,397%	3,178%	4,749%	5,199%
104	1,929%	2,985%	3,399%	3,182%	4,746%	5,192%
105	1,936%	2,991%	3,401%	3,186%	4,744%	5,186%
106	1,942%	2,996%	3,403%	3,190%	4,742%	5,179%
107	1,948%	3,002%	3,405%	3,193%	4,739%	5,173%
108	1,954%	3,007%	3,407%	3,197%	4,737%	5,167%
109	1,960%	3,013%	3,409%	3,201%	4,735%	5,160%
110	1,966%	3,018%	3,410%	3,204%	4,733%	5,154%
111	1,972%	3,023%	3,412%	3,208%	4,731%	5,148%
112	1,977%	3,029%	3,414%	3,211%	4,729%	5,143%
113	1,983%	3,034%	3,415%	3,215%	4,727%	5,137%
114	1,988%	3,039%	3,417%	3,218%	4,725%	5,131%
115	1,993%	3,043%	3,418%	3,222%	4,723%	5,126%
116	1,999%	3,048%	3,420%	3,225%	4,721%	5,120%
117	2,004%	3,053%	3,422%	3,228%	4,719%	5,115%
118	2,009%	3,058%	3,423%	3,231%	4,717%	5,110%
119	2,014%	3,062%	3,425%	3,234%	4,715%	5,105%
120	2,019%	3,067%	3,426%	3,237%	4,713%	5,100%
121	2,023%	3,071%	3,427%	3,240%	4,712%	5,095%
122	2,028%	3,075%	3,429%	3,243%	4,710%	5,090%
123	2,033%	3,080%	3,430%	3,246%	4,708%	5,085%
124	2,037%	3,084%	3,432%	3,249%	4,707%	5,080%
125	2,042%	3,088%	3,433%	3,252%	4,705%	5,076%
126	2,046%	3,092%	3,434%	3,255%	4,703%	5,071%
127	2,050%	3,096%	3,436%	3,257%	4,702%	5,067%
128	2,055%	3,100%	3,437%	3,260%	4,700%	5,062%
129	2,059%	3,104%	3,438%	3,263%	4,699%	5,058%
130	2,063%	3,107%	3,439%	3,265%	4,697%	5,053%
131	2,067%	3,111%	3,441%	3,268%	4,695%	5,049%
132	2,071%	3,115%	3,442%	3,270%	4,694%	5,045%
133	2,075%	3,119%	3,443%	3,273%	4,693%	5,041%
134	2,079%	3,122%	3,444%	3,275%	4,691%	5,037%

135	2,083%	3,126%	3,445%	3,278%	4,690%	5,033%
136	2,087%	3,129%	3,446%	3,280%	4,688%	5,029%
137	2,090%	3,133%	3,448%	3,282%	4,687%	5,025%
138	2,094%	3,136%	3,449%	3,285%	4,686%	5,021%
139	2,098%	3,139%	3,450%	3,287%	4,684%	5,018%
140	2,101%	3,143%	3,451%	3,289%	4,683%	5,014%
141	2,105%	3,146%	3,452%	3,291%	4,682%	5,010%
142	2,108%	3,149%	3,453%	3,293%	4,680%	5,007%
143	2,112%	3,152%	3,454%	3,296%	4,679%	5,003%
144	2,115%	3,155%	3,455%	3,298%	4,678%	4,999%
145	2,119%	3,158%	3,456%	3,300%	4,677%	4,996%
146	2,122%	3,161%	3,457%	3,302%	4,675%	4,993%
147	2,125%	3,164%	3,458%	3,304%	4,674%	4,989%
148	2,128%	3,167%	3,459%	3,306%	4,673%	4,986%
149	2,131%	3,170%	3,460%	3,308%	4,672%	4,983%
150	2,135%	3,173%	3,461%	3,310%	4,671%	4,979%

Term to maturity (in years)	Hong Kong dollar	Indian rupee	Mexican peso	New Taiwan dollar	New Zealand dollar	Rand
1	0,120%	3,648%	5,672%	0,128%	0,990%	3,889%
2	0,311%	4,273%	6,249%	0,159%	1,337%	4,639%
3	0,573%	4,792%	6,616%	0,187%	1,549%	5,213%
4	0,801%	5,227%	6,831%	0,214%	1,690%	5,689%
5	0,982%	5,573%	6,993%	0,238%	1,799%	6,120%
6	1,122%	5,844%	7,113%	0,260%	1,890%	6,523%
7	1,234%	6,061%	7,209%	0,280%	1,974%	6,898%
8	1,325%	6,224%	7,296%	0,298%	2,051%	7,242%
9	1,400%	6,364%	7,384%	0,315%	2,124%	7,557%
10	1,462%	6,483%	7,480%	0,332%	2,192%	7,842%
11	1,513%	6,569%	7,585%	0,374%	2,248%	8,099%
12	1,559%	6,627%	7,695%	0,438%	2,293%	8,325%
13	1,601%	6,664%	7,804%	0,515%	2,331%	8,518%
14	1,644%	6,685%	7,906%	0,599%	2,364%	8,673%
15	1,689%	6,694%	8,000%	0,687%	2,394%	8,789%
16	1,737%	6,695%	8,082%	0,776%	2,421%	8,862%
17	1,786%	6,689%	8,150%	0,864%	2,447%	8,901%
18	1,835%	6,677%	8,203%	0,951%	2,472%	8,913%

19	1,885%	6,662%	8,237%	1,036%	2,497%	8,902%
20	1,934%	6,644%	8,251%	1,117%	2,522%	8,876%
21	1,981%	6,625%	8,244%	1,196%	2,547%	8,836%
22	2,028%	6,603%	8,218%	1,272%	2,573%	8,786%
23	2,073%	6,581%	8,179%	1,344%	2,598%	8,730%
24	2,117%	6,558%	8,129%	1,414%	2,623%	8,668%
25	2,159%	6,535%	8,071%	1,480%	2,648%	8,602%
26	2,199%	6,512%	8,008%	1,543%	2,672%	8,534%
27	2,238%	6,489%	7,940%	1,604%	2,695%	8,465%
28	2,276%	6,466%	7,869%	1,661%	2,718%	8,396%
29	2,312%	6,444%	7,797%	1,717%	2,740%	8,327%
30	2,346%	6,422%	7,725%	1,769%	2,762%	8,258%
31	2,379%	6,400%	7,652%	1,819%	2,782%	8,191%
32	2,411%	6,379%	7,580%	1,867%	2,802%	8,125%
33	2,441%	6,359%	7,510%	1,913%	2,822%	8,061%
34	2,470%	6,339%	7,441%	1,957%	2,840%	7,998%
35	2,498%	6,319%	7,373%	1,999%	2,858%	7,938%
36	2,525%	6,301%	7,307%	2,039%	2,875%	7,879%
37	2,551%	6,283%	7,244%	2,077%	2,892%	7,822%
38	2,575%	6,265%	7,182%	2,114%	2,908%	7,767%
39	2,599%	6,248%	7,122%	2,149%	2,923%	7,715%
40	2,622%	6,232%	7,064%	2,182%	2,938%	7,664%
41	2,644%	6,216%	7,009%	2,215%	2,953%	7,615%
42	2,665%	6,201%	6,955%	2,245%	2,966%	7,567%
43	2,685%	6,186%	6,903%	2,275%	2,980%	7,522%
44	2,704%	6,172%	6,853%	2,304%	2,993%	7,478%
45	2,723%	6,158%	6,805%	2,331%	3,005%	7,436%
46	2,741%	6,145%	6,759%	2,357%	3,017%	7,395%
47	2,758%	6,132%	6,714%	2,383%	3,029%	7,356%
48	2,775%	6,120%	6,671%	2,407%	3,040%	7,319%
49	2,791%	6,108%	6,630%	2,431%	3,050%	7,282%
50	2,807%	6,097%	6,590%	2,453%	3,061%	7,247%
51	2,821%	6,085%	6,551%	2,475%	3,071%	7,214%
52	2,836%	6,075%	6,514%	2,496%	3,080%	7,181%
53	2,850%	6,064%	6,478%	2,516%	3,090%	7,150%
54	2,863%	6,054%	6,444%	2,536%	3,099%	7,119%
55	2,876%	6,044%	6,410%	2,555%	3,108%	7,090%

56	2,889%	6,035%	6,378%	2,573%	3,116%	7,062%
57	2,901%	6,026%	6,347%	2,591%	3,124%	7,035%
58	2,913%	6,017%	6,317%	2,608%	3,132%	7,008%
59	2,924%	6,008%	6,288%	2,624%	3,140%	6,983%
60	2,935%	6,000%	6,260%	2,640%	3,148%	6,958%
61	2,946%	5,992%	6,232%	2,656%	3,155%	6,934%
62	2,956%	5,984%	6,206%	2,671%	3,162%	6,911%
63	2,966%	5,977%	6,181%	2,685%	3,169%	6,889%
64	2,976%	5,969%	6,156%	2,700%	3,175%	6,867%
65	2,986%	5,962%	6,132%	2,713%	3,182%	6,846%
66	2,995%	5,955%	6,108%	2,727%	3,188%	6,825%
67	3,004%	5,949%	6,086%	2,739%	3,194%	6,805%
68	3,012%	5,942%	6,064%	2,752%	3,200%	6,786%
69	3,021%	5,936%	6,043%	2,764%	3,206%	6,767%
70	3,029%	5,929%	6,022%	2,776%	3,211%	6,749%
71	3,037%	5,923%	6,002%	2,788%	3,217%	6,732%
72	3,045%	5,918%	5,982%	2,799%	3,222%	6,714%
73	3,052%	5,912%	5,963%	2,810%	3,227%	6,698%
74	3,060%	5,906%	5,945%	2,820%	3,232%	6,682%
75	3,067%	5,901%	5,927%	2,831%	3,237%	6,666%
76	3,074%	5,896%	5,909%	2,841%	3,242%	6,650%
77	3,081%	5,891%	5,892%	2,850%	3,246%	6,635%
78	3,087%	5,886%	5,875%	2,860%	3,251%	6,621%
79	3,094%	5,881%	5,859%	2,869%	3,255%	6,606%
80	3,100%	5,876%	5,843%	2,878%	3,259%	6,593%
81	3,106%	5,871%	5,828%	2,887%	3,264%	6,579%
82	3,112%	5,867%	5,813%	2,896%	3,268%	6,566%
83	3,118%	5,862%	5,798%	2,904%	3,272%	6,553%
84	3,124%	5,858%	5,784%	2,913%	3,275%	6,540%
85	3,129%	5,854%	5,770%	2,921%	3,279%	6,528%
86	3,135%	5,850%	5,756%	2,929%	3,283%	6,516%
87	3,140%	5,846%	5,743%	2,936%	3,287%	6,504%
88	3,145%	5,842%	5,730%	2,944%	3,290%	6,493%
89	3,150%	5,838%	5,717%	2,951%	3,294%	6,482%
90	3,155%	5,834%	5,704%	2,958%	3,297%	6,471%
91	3,160%	5,831%	5,692%	2,965%	3,300%	6,460%
92	3,165%	5,827%	5,680%	2,972%	3,304%	6,449%

93	3,170%	5,823%	5,669%	2,979%	3,307%	6,439%
94	3,174%	5,820%	5,657%	2,985%	3,310%	6,429%
95	3,179%	5,817%	5,646%	2,992%	3,313%	6,419%
96	3,183%	5,813%	5,635%	2,998%	3,316%	6,410%
97	3,187%	5,810%	5,624%	3,004%	3,319%	6,400%
98	3,192%	5,807%	5,614%	3,010%	3,322%	6,391%
99	3,196%	5,804%	5,603%	3,016%	3,324%	6,382%
100	3,200%	5,801%	5,593%	3,022%	3,327%	6,373%
101	3,204%	5,798%	5,584%	3,028%	3,330%	6,364%
102	3,208%	5,795%	5,574%	3,034%	3,333%	6,356%
103	3,211%	5,792%	5,564%	3,039%	3,335%	6,348%
104	3,215%	5,789%	5,555%	3,044%	3,338%	6,339%
105	3,219%	5,786%	5,546%	3,050%	3,340%	6,331%
106	3,222%	5,784%	5,537%	3,055%	3,343%	6,324%
107	3,226%	5,781%	5,528%	3,060%	3,345%	6,316%
108	3,229%	5,778%	5,519%	3,065%	3,347%	6,308%
109	3,233%	5,776%	5,511%	3,070%	3,350%	6,301%
110	3,236%	5,773%	5,503%	3,075%	3,352%	6,293%
111	3,239%	5,771%	5,495%	3,079%	3,354%	6,286%
112	3,243%	5,768%	5,487%	3,084%	3,356%	6,279%
113	3,246%	5,766%	5,479%	3,089%	3,359%	6,272%
114	3,249%	5,764%	5,471%	3,093%	3,361%	6,266%
115	3,252%	5,761%	5,463%	3,097%	3,363%	6,259%
116	3,255%	5,759%	5,456%	3,102%	3,365%	6,252%
117	3,258%	5,757%	5,448%	3,106%	3,367%	6,246%
118	3,261%	5,755%	5,441%	3,110%	3,369%	6,239%
119	3,263%	5,753%	5,434%	3,114%	3,371%	6,233%
120	3,266%	5,751%	5,427%	3,118%	3,373%	6,227%
121	3,269%	5,748%	5,420%	3,122%	3,375%	6,221%
122	3,272%	5,746%	5,414%	3,126%	3,376%	6,215%
123	3,274%	5,744%	5,407%	3,130%	3,378%	6,209%
124	3,277%	5,742%	5,400%	3,134%	3,380%	6,204%
125	3,280%	5,741%	5,394%	3,138%	3,382%	6,198%
126	3,282%	5,739%	5,388%	3,141%	3,383%	6,192%
127	3,285%	5,737%	5,381%	3,145%	3,385%	6,187%
128	3,287%	5,735%	5,375%	3,148%	3,387%	6,182%
129	3,290%	5,733%	5,369%	3,152%	3,388%	6,176%

130	3,292%	5,731%	5,363%	3,155%	3,390%	6,171%
131	3,294%	5,730%	5,357%	3,159%	3,392%	6,166%
132	3,297%	5,728%	5,352%	3,162%	3,393%	6,161%
133	3,299%	5,726%	5,346%	3,165%	3,395%	6,156%
134	3,301%	5,724%	5,340%	3,169%	3,396%	6,151%
135	3,303%	5,723%	5,335%	3,172%	3,398%	6,146%
136	3,305%	5,721%	5,330%	3,175%	3,399%	6,141%
137	3,308%	5,719%	5,324%	3,178%	3,401%	6,137%
138	3,310%	5,718%	5,319%	3,181%	3,402%	6,132%
139	3,312%	5,716%	5,314%	3,184%	3,404%	6,127%
140	3,314%	5,715%	5,309%	3,187%	3,405%	6,123%
141	3,316%	5,713%	5,304%	3,190%	3,406%	6,119%
142	3,318%	5,712%	5,299%	3,193%	3,408%	6,114%
143	3,320%	5,710%	5,294%	3,196%	3,409%	6,110%
144	3,322%	5,709%	5,289%	3,198%	3,410%	6,106%
145	3,324%	5,707%	5,284%	3,201%	3,412%	6,101%
146	3,326%	5,706%	5,279%	3,204%	3,413%	6,097%
147	3,328%	5,704%	5,275%	3,207%	3,414%	6,093%
148	3,329%	5,703%	5,270%	3,209%	3,416%	6,089%
149	3,331%	5,702%	5,266%	3,212%	3,417%	6,085%
150	3,333%	5,700%	5,261%	3,214%	3,418%	6,081%

Term to maturity (in years)	Real	Renminbi-yuan	Ringgit	Russian rouble	Singapore dollar	South Korean won
1	8,451%	2,162%	1,642%	6,830%	0,200%	1,254%
2	9,187%	2,229%	1,993%	6,848%	0,469%	1,460%
3	9,707%	2,340%	2,342%	6,871%	0,787%	1,575%
4	10,078%	2,450%	2,627%	6,881%	1,034%	1,670%
5	10,359%	2,544%	2,854%	6,896%	1,220%	1,722%
6	10,574%	2,619%	3,043%	6,915%	1,363%	1,749%
7	10,733%	2,682%	3,202%	6,941%	1,475%	1,773%
8	10,854%	2,740%	3,338%	6,974%	1,563%	1,800%
9	10,959%	2,795%	3,459%	7,010%	1,631%	1,822%
10	11,039%	2,849%	3,575%	7,048%	1,682%	1,831%
11	11,067%	2,903%	3,681%	7,094%	1,718%	1,824%
12	11,049%	2,957%	3,782%	7,142%	1,745%	1,809%
13	10,998%	3,009%	3,878%	7,186%	1,767%	1,791%

14	10,922%	3,060%	3,971%	7,220%	1,786%	1,774%
15	10,827%	3,108%	4,059%	7,239%	1,805%	1,760%
16	10,720%	3,155%	4,141%	7,241%	1,825%	1,751%
17	10,603%	3,200%	4,215%	7,227%	1,846%	1,749%
18	10,481%	3,242%	4,281%	7,203%	1,869%	1,752%
19	10,354%	3,283%	4,337%	7,170%	1,895%	1,762%
20	10,226%	3,322%	4,381%	7,131%	1,925%	1,779%
21	10,098%	3,359%	4,414%	7,088%	1,957%	1,803%
22	9,970%	3,394%	4,436%	7,041%	1,991%	1,833%
23	9,845%	3,428%	4,450%	6,993%	2,027%	1,865%
24	9,722%	3,460%	4,458%	6,943%	2,064%	1,900%
25	9,602%	3,491%	4,460%	6,892%	2,101%	1,937%
26	9,486%	3,520%	4,458%	6,842%	2,137%	1,974%
27	9,373%	3,547%	4,453%	6,792%	2,173%	2,012%
28	9,264%	3,574%	4,446%	6,743%	2,209%	2,049%
29	9,159%	3,599%	4,436%	6,695%	2,243%	2,086%
30	9,057%	3,624%	4,425%	6,647%	2,277%	2,122%
31	8,960%	3,647%	4,412%	6,601%	2,310%	2,158%
32	8,867%	3,669%	4,399%	6,557%	2,342%	2,193%
33	8,777%	3,690%	4,385%	6,513%	2,372%	2,226%
34	8,691%	3,710%	4,371%	6,471%	2,402%	2,259%
35	8,608%	3,730%	4,356%	6,431%	2,431%	2,291%
36	8,529%	3,748%	4,342%	6,392%	2,458%	2,321%
37	8,454%	3,766%	4,327%	6,354%	2,485%	2,351%
38	8,381%	3,783%	4,313%	6,318%	2,511%	2,380%
39	8,311%	3,800%	4,299%	6,283%	2,535%	2,407%
40	8,245%	3,816%	4,285%	6,249%	2,559%	2,434%
41	8,181%	3,831%	4,271%	6,216%	2,582%	2,459%
42	8,119%	3,845%	4,258%	6,185%	2,604%	2,484%
43	8,060%	3,859%	4,245%	6,155%	2,625%	2,508%
44	8,004%	3,873%	4,232%	6,126%	2,646%	2,531%
45	7,950%	3,886%	4,220%	6,098%	2,666%	2,553%
46	7,897%	3,898%	4,207%	6,071%	2,685%	2,575%
47	7,847%	3,910%	4,196%	6,045%	2,703%	2,595%
48	7,799%	3,922%	4,184%	6,020%	2,721%	2,615%
49	7,753%	3,933%	4,173%	5,996%	2,738%	2,634%
50	7,708%	3,944%	4,163%	5,973%	2,754%	2,653%

51	7,665%	3,954%	4,152%	5,950%	2,770%	2,671%
52	7,624%	3,964%	4,142%	5,929%	2,786%	2,688%
53	7,584%	3,974%	4,132%	5,908%	2,801%	2,704%
54	7,545%	3,983%	4,123%	5,887%	2,815%	2,721%
55	7,508%	3,992%	4,114%	5,868%	2,829%	2,736%
56	7,472%	4,001%	4,105%	5,849%	2,842%	2,751%
57	7,438%	4,009%	4,096%	5,831%	2,855%	2,766%
58	7,404%	4,018%	4,088%	5,813%	2,868%	2,780%
59	7,372%	4,026%	4,080%	5,796%	2,880%	2,793%
60	7,341%	4,033%	4,072%	5,780%	2,892%	2,807%
61	7,310%	4,041%	4,065%	5,764%	2,903%	2,819%
62	7,281%	4,048%	4,057%	5,748%	2,914%	2,832%
63	7,253%	4,055%	4,050%	5,733%	2,925%	2,844%
64	7,225%	4,062%	4,043%	5,719%	2,935%	2,856%
65	7,199%	4,068%	4,036%	5,705%	2,945%	2,867%
66	7,173%	4,075%	4,030%	5,691%	2,955%	2,878%
67	7,148%	4,081%	4,023%	5,678%	2,965%	2,889%
68	7,123%	4,087%	4,017%	5,665%	2,974%	2,899%
69	7,100%	4,093%	4,011%	5,652%	2,983%	2,909%
70	7,077%	4,099%	4,005%	5,640%	2,992%	2,919%
71	7,054%	4,104%	4,000%	5,628%	3,000%	2,928%
72	7,033%	4,110%	3,994%	5,617%	3,009%	2,938%
73	7,012%	4,115%	3,989%	5,606%	3,017%	2,947%
74	6,991%	4,120%	3,984%	5,595%	3,024%	2,955%
75	6,971%	4,125%	3,979%	5,584%	3,032%	2,964%
76	6,951%	4,130%	3,974%	5,574%	3,039%	2,972%
77	6,933%	4,135%	3,969%	5,564%	3,047%	2,980%
78	6,914%	4,140%	3,964%	5,554%	3,054%	2,988%
79	6,896%	4,144%	3,959%	5,544%	3,061%	2,996%
80	6,878%	4,149%	3,955%	5,535%	3,067%	3,003%
81	6,861%	4,153%	3,950%	5,526%	3,074%	3,011%
82	6,845%	4,157%	3,946%	5,517%	3,080%	3,018%
83	6,828%	4,161%	3,942%	5,508%	3,086%	3,025%
84	6,812%	4,165%	3,938%	5,500%	3,093%	3,032%
85	6,797%	4,169%	3,934%	5,492%	3,099%	3,038%
86	6,782%	4,173%	3,930%	5,484%	3,104%	3,045%
87	6,767%	4,177%	3,926%	5,476%	3,110%	3,051%

88	6,752%	4,180%	3,923%	5,468%	3,116%	3,057%
89	6,738%	4,184%	3,919%	5,460%	3,121%	3,064%
90	6,724%	4,187%	3,915%	5,453%	3,126%	3,069%
91	6,711%	4,191%	3,912%	5,446%	3,131%	3,075%
92	6,698%	4,194%	3,909%	5,439%	3,137%	3,081%
93	6,685%	4,197%	3,905%	5,432%	3,142%	3,087%
94	6,672%	4,201%	3,902%	5,425%	3,146%	3,092%
95	6,660%	4,204%	3,899%	5,419%	3,151%	3,097%
96	6,648%	4,207%	3,896%	5,412%	3,156%	3,103%
97	6,636%	4,210%	3,893%	5,406%	3,160%	3,108%
98	6,624%	4,213%	3,890%	5,400%	3,165%	3,113%
99	6,613%	4,216%	3,887%	5,394%	3,169%	3,118%
100	6,601%	4,219%	3,884%	5,388%	3,174%	3,122%
101	6,590%	4,221%	3,881%	5,382%	3,178%	3,127%
102	6,580%	4,224%	3,878%	5,376%	3,182%	3,132%
103	6,569%	4,227%	3,876%	5,370%	3,186%	3,136%
104	6,559%	4,229%	3,873%	5,365%	3,190%	3,141%
105	6,549%	4,232%	3,870%	5,360%	3,194%	3,145%
106	6,539%	4,234%	3,868%	5,354%	3,198%	3,149%
107	6,529%	4,237%	3,865%	5,349%	3,201%	3,154%
108	6,519%	4,239%	3,863%	5,344%	3,205%	3,158%
109	6,510%	4,242%	3,860%	5,339%	3,209%	3,162%
110	6,501%	4,244%	3,858%	5,334%	3,212%	3,166%
111	6,492%	4,246%	3,856%	5,329%	3,216%	3,170%
112	6,483%	4,249%	3,853%	5,325%	3,219%	3,173%
113	6,474%	4,251%	3,851%	5,320%	3,223%	3,177%
114	6,466%	4,253%	3,849%	5,315%	3,226%	3,181%
115	6,457%	4,255%	3,847%	5,311%	3,229%	3,185%
116	6,449%	4,257%	3,845%	5,306%	3,232%	3,188%
117	6,441%	4,259%	3,843%	5,302%	3,235%	3,192%
118	6,433%	4,261%	3,841%	5,298%	3,238%	3,195%
119	6,425%	4,263%	3,838%	5,294%	3,242%	3,198%
120	6,417%	4,265%	3,837%	5,289%	3,245%	3,202%
121	6,409%	4,267%	3,835%	5,285%	3,247%	3,205%
122	6,402%	4,269%	3,833%	5,281%	3,250%	3,208%
123	6,395%	4,271%	3,831%	5,277%	3,253%	3,212%
124	6,387%	4,273%	3,829%	5,274%	3,256%	3,215%

125	6,380%	4,275%	3,827%	5,270%	3,259%	3,218%
126	6,373%	4,277%	3,825%	5,266%	3,261%	3,221%
127	6,366%	4,278%	3,823%	5,262%	3,264%	3,224%
128	6,359%	4,280%	3,822%	5,259%	3,267%	3,227%
129	6,353%	4,282%	3,820%	5,255%	3,269%	3,230%
130	6,346%	4,283%	3,818%	5,252%	3,272%	3,232%
131	6,340%	4,285%	3,817%	5,248%	3,274%	3,235%
132	6,333%	4,287%	3,815%	5,245%	3,277%	3,238%
133	6,327%	4,288%	3,813%	5,242%	3,279%	3,241%
134	6,321%	4,290%	3,812%	5,238%	3,282%	3,243%
135	6,315%	4,291%	3,810%	5,235%	3,284%	3,246%
136	6,309%	4,293%	3,809%	5,232%	3,286%	3,249%
137	6,303%	4,295%	3,807%	5,229%	3,289%	3,251%
138	6,297%	4,296%	3,806%	5,225%	3,291%	3,254%
139	6,291%	4,297%	3,804%	5,222%	3,293%	3,256%
140	6,286%	4,299%	3,803%	5,219%	3,295%	3,259%
141	6,280%	4,300%	3,801%	5,216%	3,297%	3,261%
142	6,274%	4,302%	3,800%	5,213%	3,299%	3,263%
143	6,269%	4,303%	3,798%	5,211%	3,302%	3,266%
144	6,264%	4,304%	3,797%	5,208%	3,304%	3,268%
145	6,258%	4,306%	3,796%	5,205%	3,306%	3,270%
146	6,253%	4,307%	3,794%	5,202%	3,308%	3,273%
147	6,248%	4,308%	3,793%	5,199%	3,310%	3,275%
148	6,243%	4,310%	3,792%	5,197%	3,312%	3,277%
149	6,238%	4,311%	3,790%	5,194%	3,314%	3,279%
150	6,233%	4,312%	3,789%	5,191%	3,316%	3,281%

Term to maturity (in years)	Turkish lira	US dollar	Yen
1	17,721%	0,072%	- 0,109%
2	17,964%	0,282%	- 0,092%
3	18,231%	0,555%	- 0,086%
4	18,400%	0,783%	- 0,081%
5	18,498%	0,965%	- 0,073%
6	18,528%	1,105%	- 0,060%
7	18,506%	1,217%	- 0,045%
8	18,441%	1,304%	- 0,028%
9	18,326%	1,376%	- 0,008%

10	18,168%	1,434%	0,014%
11	17,977%	1,489%	0,036%
12	17,759%	1,537%	0,060%
13	17,519%	1,574%	0,087%
14	17,263%	1,603%	0,114%
15	16,992%	1,629%	0,141%
16	16,712%	1,654%	0,167%
17	16,425%	1,676%	0,192%
18	16,133%	1,696%	0,216%
19	15,840%	1,713%	0,240%
20	15,547%	1,725%	0,264%
21	15,257%	1,733%	0,289%
22	14,971%	1,739%	0,311%
23	14,691%	1,743%	0,332%
24	14,417%	1,746%	0,350%
25	14,151%	1,750%	0,363%
26	13,893%	1,753%	0,374%
27	13,644%	1,756%	0,384%
28	13,404%	1,754%	0,397%
29	13,173%	1,748%	0,415%
30	12,951%	1,737%	0,441%
31	12,738%	1,718%	0,474%
32	12,534%	1,696%	0,514%
33	12,339%	1,672%	0,559%
34	12,153%	1,646%	0,607%
35	11,974%	1,622%	0,656%
36	11,803%	1,598%	0,708%
37	11,640%	1,576%	0,759%
38	11,484%	1,557%	0,811%
39	11,334%	1,540%	0,863%
40	11,192%	1,526%	0,914%
41	11,055%	1,514%	0,965%
42	10,924%	1,506%	1,014%
43	10,799%	1,500%	1,063%
44	10,679%	1,497%	1,110%
45	10,564%	1,497%	1,156%

46	10,454%	1,500%	1,201%
47	10,348%	1,505%	1,245%
48	10,246%	1,513%	1,287%
49	10,149%	1,524%	1,329%
50	10,055%	1,537%	1,369%
51	9,965%	1,554%	1,407%
52	9,878%	1,572%	1,445%
53	9,794%	1,592%	1,482%
54	9,714%	1,614%	1,517%
55	9,636%	1,637%	1,551%
56	9,561%	1,660%	1,585%
57	9,489%	1,684%	1,617%
58	9,419%	1,708%	1,648%
59	9,352%	1,732%	1,678%
60	9,287%	1,756%	1,708%
61	9,224%	1,781%	1,736%
62	9,163%	1,805%	1,764%
63	9,104%	1,829%	1,791%
64	9,047%	1,852%	1,817%
65	8,991%	1,876%	1,843%
66	8,938%	1,899%	1,867%
67	8,886%	1,921%	1,891%
68	8,835%	1,944%	1,914%
69	8,786%	1,966%	1,937%
70	8,738%	1,987%	1,959%
71	8,692%	2,008%	1,980%
72	8,647%	2,029%	2,001%
73	8,603%	2,049%	2,022%
74	8,561%	2,069%	2,041%
75	8,520%	2,088%	2,061%
76	8,479%	2,107%	2,079%
77	8,440%	2,126%	2,098%
78	8,402%	2,144%	2,115%
79	8,365%	2,162%	2,133%
80	8,328%	2,179%	2,150%
81	8,293%	2,196%	2,166%

82	8,258%	2,213%	2,182%
83	8,225%	2,229%	2,198%
84	8,192%	2,245%	2,213%
85	8,160%	2,261%	2,228%
86	8,129%	2,276%	2,243%
87	8,098%	2,291%	2,257%
88	8,068%	2,306%	2,272%
89	8,039%	2,320%	2,285%
90	8,010%	2,334%	2,299%
91	7,982%	2,348%	2,312%
92	7,955%	2,361%	2,325%
93	7,928%	2,374%	2,337%
94	7,902%	2,387%	2,349%
95	7,877%	2,400%	2,361%
96	7,852%	2,412%	2,373%
97	7,827%	2,424%	2,385%
98	7,803%	2,436%	2,396%
99	7,780%	2,448%	2,407%
100	7,757%	2,459%	2,418%
101	7,734%	2,470%	2,429%
102	7,712%	2,481%	2,439%
103	7,690%	2,492%	2,449%
104	7,669%	2,503%	2,460%
105	7,648%	2,513%	2,469%
106	7,628%	2,523%	2,479%
107	7,608%	2,533%	2,489%
108	7,588%	2,543%	2,498%
109	7,569%	2,553%	2,507%
110	7,550%	2,562%	2,516%
111	7,531%	2,572%	2,525%
112	7,513%	2,581%	2,533%
113	7,495%	2,590%	2,542%
114	7,477%	2,598%	2,550%
115	7,460%	2,607%	2,559%
116	7,443%	2,616%	2,567%
117	7,426%	2,624%	2,575%

118	7,409%	2,632%	2,582%
119	7,393%	2,640%	2,590%
120	7,377%	2,648%	2,598%
121	7,362%	2,656%	2,605%
122	7,346%	2,664%	2,612%
123	7,331%	2,671%	2,620%
124	7,316%	2,679%	2,627%
125	7,302%	2,686%	2,634%
126	7,287%	2,693%	2,640%
127	7,273%	2,701%	2,647%
128	7,259%	2,708%	2,654%
129	7,245%	2,714%	2,660%
130	7,232%	2,721%	2,667%
131	7,218%	2,728%	2,673%
132	7,205%	2,734%	2,679%
133	7,192%	2,741%	2,685%
134	7,180%	2,747%	2,692%
135	7,167%	2,754%	2,697%
136	7,155%	2,760%	2,703%
137	7,143%	2,766%	2,709%
138	7,131%	2,772%	2,715%
139	7,119%	2,778%	2,721%
140	7,107%	2,784%	2,726%
141	7,096%	2,789%	2,732%
142	7,084%	2,795%	2,737%
143	7,073%	2,801%	2,742%
144	7,062%	2,806%	2,747%
145	7,051%	2,812%	2,753%
146	7,041%	2,817%	2,758%
147	7,030%	2,822%	2,763%
148	7,020%	2,828%	2,768%
149	7,009%	2,833%	2,773%
150	6,999%	2,838%	2,777%

ANNEX II

Fundamental spreads for the calculation of the matching adjustment

The fundamental spreads set out in this Annex are expressed in basis points and do not include any increase in accordance with Article 77c(1)(c) of Directive 2009/138/EC.

1. Exposures to central governments and central banks

The fundamental spreads apply to exposures denominated in all currencies.

The fundamental spreads for durations from 11 to 30 years are equal to the fundamental spreads for duration 10 years.

Duration (in years)	Austria	Belgium	Bulgaria	Croatia	Czech Republic	Cyprus	Denmark
1	0	0	30	5	0	23	1
2	0	0	37	5	0	39	0
3	0	0	42	5	1	44	0
4	0	2	45	5	2	45	0
5	0	3	49	5	4	48	0
6	1	4	52	5	6	51	0
7	1	5	55	5	8	52	0
8	2	6	56	5	10	52	0
9	3	7	58	5	12	49	0
10	3	8	60	5	13	48	0

Duration (in years)	Estonia	Finland	France	Germany	Greece	Hungary	Ireland
1	0	0	0	0	371	4	15
2	0	0	0	0	231	4	21
3	0	0	0	0	205	4	23
4	2	0	0	0	179	4	24
5	3	0	0	0	165	4	25
6	4	0	0	0	162	4	27
7	5	0	0	0	159	4	28
8	6	0	1	0	163	3	29
9	7	0	2	0	165	1	29
10	8	0	3	0	167	4	29

Duration (in years)	Italy	Latvia	Lithuania	Luxem- bourg	Malta	Netherlands	Poland
1	6	4	5	0	15	0	4
2	14	10	11	0	21	0	4

3	18	13	14	0	23	0	4
4	21	15	16	0	24	0	4
5	24	17	18	0	25	0	4
6	25	18	20	0	27	0	4
7	27	20	21	0	28	0	4
8	28	21	23	0	29	0	4
9	30	22	24	1	29	0	4
10	31	23	25	2	29	0	4

Duration (in years)	Portugal	Romania	Slovakia	Slovenia	Spain	Sweden	United Kingdom
1	23	9	11	17	5	0	0
2	39	16	15	20	11	0	0
3	44	18	17	24	14	0	0
4	45	19	18	28	16	0	0
5	48	21	19	32	18	0	0
6	51	22	21	35	20	0	0
7	52	23	22	36	21	0	0
8	52	25	23	38	23	0	0
9	49	26	24	38	24	0	0
10	48	24	24	38	25	0	0

Duration (in years)	Liechten- stein	Norway	Switzerland	Australia	Brazil	Canada	Chile
1	0	0	0	0	12	0	17
2	0	0	0	0	12	0	18
3	0	0	0	0	12	0	18
4	0	0	0	0	12	0	17
5	0	0	0	0	12	0	16
6	0	0	0	0	12	0	15
7	0	0	0	0	12	0	14
8	0	0	0	0	12	0	15
9	0	0	0	0	12	0	15
10	0	0	0	0	12	0	13

Duration (in years)	China	Colombia	Hong Kong	India	Japan	Malaysia	Mexico
1	0	12	0	10	0	0	9
2	0	18	0	10	0	0	9
3	2	28	0	10	0	0	10
4	3	35	0	10	0	0	10
5	3	37	0	10	0	0	10
6	3	40	0	10	0	0	10
7	4	42	0	10	0	0	10
8	8	40	0	10	0	0	10
9	5	37	0	10	0	0	10
10	5	39	0	10	1	0	10

Duration (in years)	New Zealand	Russia	Singapore	South Africa	South Korea	Thailand	Taiwan
1	0	0	0	7	9	1	4
2	0	0	0	9	12	0	4
3	0	0	0	10	12	0	4
4	0	0	0	10	14	0	4
5	0	2	0	10	15	0	4
6	0	5	0	12	15	0	4
7	0	7	0	14	16	0	4
8	0	11	0	15	16	0	4
9	0	17	0	16	16	0	4
10	0	17	0	18	16	0	4

Duration (in years)	United States
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0

2. Exposures to financial institutions

2.1 Euro

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	7	20	43	114	226	530	1 205
2	7	20	43	114	226	530	969
3	8	22	44	108	223	526	790
4	9	24	47	110	222	525	654
5	10	27	52	113	222	525	550
6	11	29	55	118	222	525	525
7	13	31	57	121	222	525	525
8	13	32	57	120	222	525	525
9	13	33	57	119	222	525	525
10	13	34	57	119	222	525	525
11	14	35	58	119	222	525	525
12	14	36	58	119	222	525	525
13	15	36	58	119	222	525	525
14	15	37	58	119	222	525	525
15	15	37	58	119	222	525	525
16	15	37	58	119	222	525	525
17	15	37	58	119	222	525	525
18	15	37	58	119	222	525	525
19	15	37	58	119	222	525	525
20	15	37	58	119	222	525	525
21	15	37	58	119	222	525	525
22	17	37	58	119	222	525	525
23	17	37	58	119	222	525	525
24	18	37	58	119	222	525	525
25	18	37	58	119	222	525	525
26	19	37	58	119	222	525	525
27	19	37	58	119	222	525	525
28	21	37	58	119	222	525	525
29	21	37	58	119	222	525	525
30	22	37	58	119	222	525	525

2.2 Czech koruna

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	14	28	51	122	234	538	1 261
2	16	30	53	124	236	540	1 017
3	18	32	55	118	233	537	830
4	19	34	57	120	232	536	686
5	20	36	62	123	231	535	576
6	20	38	64	127	231	534	534
7	21	39	66	129	230	534	534
8	20	39	65	127	229	533	533
9	20	40	64	126	229	533	533
10	20	41	64	126	228	532	532
11	20	41	64	125	228	531	531
12	20	41	63	125	227	531	531
13	20	41	63	124	227	530	530
14	19	41	62	124	226	530	530
15	19	41	62	123	226	529	529
16	18	40	61	123	225	529	529
17	18	40	61	123	225	529	529
18	18	40	61	123	225	529	529
19	18	40	61	123	225	529	529
20	19	40	62	123	226	529	529
21	19	41	62	123	226	529	529
22	19	41	62	124	226	530	530
23	19	41	62	124	226	530	530
24	19	41	62	124	226	530	530
25	19	41	62	124	226	530	530
26	19	41	62	124	226	530	530
27	21	41	62	124	226	530	530
28	21	41	62	124	226	530	530
29	22	41	62	123	226	530	530
30	22	41	62	123	226	530	530

2.3 Danish krone

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	6	20	43	114	226	530	1 205
2	6	20	43	114	226	530	969
3	7	22	44	108	223	526	790
4	9	24	47	110	222	525	654
5	10	27	52	113	222	525	550
6	11	29	55	118	222	525	525
7	12	31	57	120	222	525	525
8	12	32	57	119	222	525	525
9	13	32	57	119	222	525	525
10	13	34	57	119	222	525	525
11	14	35	58	119	222	525	525
12	14	36	58	119	222	525	525
13	14	36	58	119	222	525	525
14	15	36	58	119	222	525	525
15	15	36	58	119	222	525	525
16	15	36	58	119	222	525	525
17	15	36	58	119	222	525	525
18	15	36	58	119	222	525	525
19	15	36	58	119	222	525	525
20	15	36	58	119	222	525	525
21	15	36	58	119	222	525	525
22	17	36	58	119	222	525	525
23	17	36	58	119	222	525	525
24	18	36	58	119	222	525	525
25	18	36	58	119	222	525	525
26	19	36	58	119	222	525	525
27	19	36	58	119	222	525	525
28	21	36	58	119	222	525	525
29	21	37	58	119	222	525	525
30	22	37	58	119	222	525	525

2.4 Forint

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	77	90	114	185	297	601	1 243
2	74	87	111	181	294	597	1 004
3	78	92	115	178	293	597	821
4	77	93	116	179	290	594	681
5	77	93	119	180	288	592	592
6	76	94	120	183	287	590	590
7	76	94	120	184	285	588	588
8	75	94	119	182	284	587	587
9	74	94	118	180	283	587	587
10	71	92	115	177	280	583	583
11	69	90	113	175	277	581	581
12	69	90	112	173	276	580	580
13	68	90	111	173	275	579	579
14	68	90	111	172	275	579	579
15	68	90	111	172	275	578	578
16	67	89	110	172	274	578	578
17	67	89	110	171	274	577	577
18	66	88	109	171	273	577	577
19	66	87	109	170	273	576	576
20	65	87	108	169	272	576	576
21	64	86	107	169	271	575	575
22	64	85	107	168	271	574	574
23	63	85	106	167	270	573	573
24	62	84	105	166	269	572	572
25	61	83	104	165	268	571	571
26	60	82	103	164	267	570	570
27	59	81	102	163	266	569	569
28	58	80	101	162	265	568	568
29	57	79	100	161	264	567	567
30	56	78	99	160	263	566	566

2.5 Kroma

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	10	24	47	118	230	534	1 214
2	12	25	49	119	232	535	978
3	14	29	51	115	229	533	798
4	16	31	54	117	229	532	661
5	18	34	59	121	229	533	556
6	19	36	63	125	229	533	533
7	20	38	64	128	229	532	532
8	19	38	64	126	228	532	532
9	19	39	63	125	228	532	532
10	19	40	63	125	228	531	531
11	19	41	63	125	227	531	531
12	20	41	63	125	227	531	531
13	20	42	63	125	227	531	531
14	20	42	63	125	227	531	531
15	20	42	63	125	227	531	531
16	20	42	63	124	227	531	531
17	20	42	63	125	227	531	531
18	20	42	63	125	227	531	531
19	21	42	64	125	228	531	531
20	21	43	64	125	228	532	532
21	21	43	64	126	228	532	532
22	22	44	65	126	229	532	532
23	22	44	65	126	229	532	532
24	22	44	65	126	229	532	532
25	22	44	65	126	229	532	532
26	22	44	65	126	229	532	532
27	22	44	65	126	229	532	532
28	22	44	65	126	229	532	532
29	22	43	65	126	229	532	532
30	22	43	64	126	228	532	532

2.6 Kuna

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	48	61	84	155	267	571	1 212
2	51	64	88	159	271	575	976
3	56	71	93	157	272	575	795
4	60	75	98	161	273	576	658
5	62	79	104	165	274	577	577
6	63	81	107	170	274	577	577
7	64	82	109	172	273	577	577
8	63	82	108	170	272	576	576
9	62	82	106	168	271	575	575
10	61	82	106	167	270	573	573
11	61	82	105	166	268	572	572
12	60	81	103	165	267	571	571
13	59	81	102	163	266	570	570
14	58	80	101	162	265	568	568
15	57	79	100	161	264	567	567
16	56	78	99	160	263	567	567
17	55	77	98	160	262	566	566
18	55	76	98	159	262	565	565
19	54	76	97	159	261	565	565
20	54	75	97	158	261	564	564
21	53	75	96	157	260	564	564
22	52	74	95	157	259	563	563
23	52	73	95	156	259	562	562
24	51	73	94	155	258	561	561
25	50	72	93	154	257	561	561
26	49	71	92	154	256	560	560
27	48	70	91	153	255	559	559
28	48	69	91	152	255	558	558
29	47	69	90	151	254	557	557
30	46	68	89	150	253	557	557

2.7 Lev

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	6	19	42	113	226	529	1 204
2	6	19	42	113	226	529	969
3	7	21	44	107	222	525	790
4	8	23	46	109	221	525	654
5	9	26	51	113	221	524	550
6	10	28	55	117	221	524	524
7	12	30	56	120	221	524	524
8	12	31	56	119	221	524	524
9	12	32	56	118	221	524	524
10	12	33	57	118	221	524	524
11	13	34	57	118	221	524	524
12	13	35	57	118	221	524	524
13	14	35	57	118	221	524	524
14	14	36	57	118	221	524	524
15	14	36	57	118	221	524	524
16	14	36	57	118	221	524	524
17	14	36	57	118	221	524	524
18	14	36	57	118	221	524	524
19	14	36	57	118	221	524	524
20	15	36	57	118	221	524	524
21	15	36	57	118	221	524	524
22	17	36	57	118	221	524	524
23	17	36	57	118	221	524	524
24	18	36	57	118	221	524	524
25	18	36	57	118	221	525	525
26	19	36	57	118	221	525	525
27	19	36	57	118	221	525	525
28	21	36	57	118	221	525	525
29	21	36	57	118	221	525	525
30	22	36	57	118	221	525	525

2.8 *Pound sterling*

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	8	24	53	145	244	548	1 223
2	8	24	53	145	244	548	986
3	9	26	53	131	241	544	805
4	10	28	55	122	239	542	667
5	12	30	57	112	238	541	560
6	14	34	60	105	237	540	540
7	16	36	61	99	236	539	539
8	17	38	60	92	235	538	538
9	20	45	63	87	234	537	537
10	19	44	61	84	233	536	536
11	18	43	60	84	232	536	536
12	18	43	60	86	231	535	535
13	18	43	61	86	230	534	534
14	18	43	61	86	230	533	533
15	18	43	61	86	229	532	532
16	18	43	61	86	228	531	531
17	18	43	61	86	227	530	530
18	18	43	61	86	226	530	530
19	18	43	61	86	226	530	530
20	18	43	61	86	226	530	530
21	18	43	61	86	227	530	530
22	18	43	61	86	226	530	530
23	18	43	61	86	226	529	529
24	18	43	61	86	225	529	529
25	18	43	61	86	225	528	528
26	19	43	61	86	224	528	528
27	19	43	61	86	223	527	527
28	21	43	61	86	223	527	527
29	21	43	61	86	222	526	526
30	22	43	61	86	222	526	526

2.9 Romanian leu

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	84	98	121	192	304	608	1 264
2	83	96	120	190	303	606	1 021
3	82	97	119	183	298	601	835
4	82	97	120	183	295	598	692
5	81	97	123	184	292	596	596
6	80	98	124	187	290	594	594
7	79	97	124	187	288	592	592
8	77	96	121	184	286	590	590
9	75	95	119	181	284	587	587
10	74	95	118	180	282	586	586
11	73	94	117	178	281	585	585
12	72	93	115	177	279	583	583
13	71	93	114	175	278	582	582
14	70	91	113	174	277	580	580
15	68	90	111	173	275	579	579
16	67	89	110	172	274	578	578
17	66	88	109	171	273	577	577
18	65	87	108	170	272	576	576
19	64	86	107	169	271	575	575
20	64	85	107	168	271	574	574
21	63	85	106	167	270	573	573
22	62	84	105	166	269	572	572
23	61	83	104	165	268	571	571
24	60	82	103	164	267	570	570
25	59	80	102	163	266	569	569
26	58	79	101	162	264	568	568
27	57	78	99	161	263	567	567
28	55	77	98	160	262	566	566
29	54	76	97	159	261	565	565
30	53	75	96	158	260	564	564

2.10 Zloty

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	57	70	93	164	276	580	1 218
2	56	69	92	163	276	579	985
3	56	70	93	156	271	575	806
4	57	72	95	158	270	573	668
5	56	73	98	160	268	572	572
6	56	73	100	163	266	570	570
7	56	74	101	164	265	569	569
8	54	74	99	161	264	567	567
9	53	73	98	159	262	566	566
10	53	73	97	158	261	565	565
11	52	73	96	158	260	564	564
12	52	74	96	157	259	563	563
13	52	73	95	156	259	562	562
14	51	73	94	156	258	562	562
15	51	73	94	155	258	561	561
16	50	72	93	154	257	560	560
17	49	71	92	154	256	560	560
18	49	71	92	153	256	559	559
19	48	70	91	153	255	559	559
20	48	70	91	153	255	559	559
21	48	70	91	152	255	559	559
22	47	69	91	152	254	558	558
23	47	69	90	151	254	558	558
24	46	68	89	151	253	557	557
25	46	68	89	150	253	556	556
26	45	67	88	149	252	556	556
27	44	66	87	149	251	555	555
28	44	65	87	148	251	554	554
29	43	65	86	147	250	554	554
30	42	64	85	147	249	553	553

2.11 Norwegian krone

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	31	44	68	139	251	555	1 233
2	32	45	69	140	252	555	995
3	32	47	69	133	248	551	813
4	33	48	71	134	246	549	674
5	33	50	75	137	245	549	566
6	34	51	78	141	244	548	548
7	34	53	79	142	243	547	547
8	33	53	78	140	242	546	546
9	33	53	77	139	242	545	545
10	33	53	77	138	241	545	545
11	33	54	76	138	240	544	544
12	32	54	76	137	240	543	543
13	32	54	75	136	239	543	543
14	32	53	74	136	238	542	542
15	31	53	74	135	238	541	541
16	30	52	73	135	237	541	541
17	30	52	73	134	237	540	540
18	29	51	73	134	236	540	540
19	29	51	72	134	236	540	540
20	29	51	72	134	236	540	540
21	29	51	73	134	236	540	540
22	29	51	72	134	236	540	540
23	29	51	72	134	236	540	540
24	29	51	72	133	236	540	540
25	29	51	72	133	236	539	539
26	28	50	71	133	235	539	539
27	28	50	71	133	235	539	539
28	28	50	71	132	235	538	538
29	28	49	71	132	235	538	538
30	27	49	70	132	234	538	538

2.12 *Swiss franc*

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	0	3	25	95	208	511	1 201
2	1	5	26	96	209	512	967
3	2	5	27	91	205	509	788
4	2	7	30	93	204	508	653
5	4	9	35	96	204	508	549
6	4	11	38	101	204	508	508
7	5	14	40	103	204	508	508
8	6	14	40	102	204	508	508
9	7	15	40	101	204	508	508
10	8	16	40	101	204	508	508
11	8	18	41	103	205	509	509
12	9	18	40	101	204	507	507
13	10	19	41	102	205	508	508
14	10	19	41	102	205	508	508
15	12	18	39	101	203	507	507
16	12	17	39	100	202	506	506
17	13	17	38	100	202	506	506
18	14	17	39	100	203	506	506
19	14	18	39	100	203	506	506
20	15	18	39	101	203	507	507
21	15	20	40	101	204	507	507
22	17	20	40	101	204	507	507
23	17	21	40	101	204	507	507
24	18	21	39	101	203	507	507
25	18	22	39	101	203	507	507
26	19	23	39	101	203	507	507
27	19	24	41	100	203	507	507
28	21	24	42	100	203	506	506
29	21	25	43	100	203	506	506
30	22	26	44	100	203	506	506

2.13 *Australian dollar*

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	46	59	82	153	265	569	1 216
2	46	59	82	153	265	569	980
3	46	61	83	147	261	565	801
4	47	62	85	148	260	563	664
5	47	64	89	150	259	562	562
6	47	65	92	154	258	561	561
7	48	66	92	156	257	561	561
8	47	66	91	154	256	560	560
9	46	66	90	152	255	559	559
10	46	66	90	151	254	558	558
11	46	67	90	151	253	557	557
12	45	67	89	150	253	556	556
13	45	67	88	150	252	556	556
14	45	66	88	149	251	555	555
15	44	66	87	148	251	555	555
16	43	65	86	147	250	554	554
17	43	64	86	147	250	553	553
18	42	64	85	147	249	553	553
19	42	63	85	146	249	552	552
20	42	63	85	146	248	552	552
21	41	63	84	146	248	552	552
22	41	63	84	145	248	551	551
23	40	62	83	145	247	551	551
24	40	61	83	144	247	550	550
25	39	61	82	143	246	550	550
26	38	60	81	143	245	549	549
27	38	59	81	142	244	548	548
28	37	59	80	141	244	547	547
29	36	58	79	140	243	547	547
30	35	57	78	140	242	546	546

2.14 Baht

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	18	31	54	125	237	541	1 225
2	21	35	58	129	241	545	985
3	25	40	62	126	241	544	804
4	29	44	67	130	242	545	667
5	32	48	73	135	243	547	561
6	31	48	75	137	241	545	545
7	35	54	80	143	244	548	548
8	34	53	79	141	243	547	547
9	35	55	79	141	244	548	548
10	37	57	81	143	245	549	549
11	38	60	82	144	246	550	550
12	39	61	83	144	247	551	551
13	40	62	83	145	247	551	551
14	41	62	84	145	248	551	551
15	41	63	84	145	248	551	551
16	40	62	83	145	247	551	551
17	40	62	83	145	247	551	551
18	40	62	83	144	247	550	550
19	39	61	83	144	246	550	550
20	40	61	83	144	246	550	550
21	39	61	82	144	246	550	550
22	39	61	82	144	246	550	550
23	39	61	82	143	246	549	549
24	39	60	82	143	245	549	549
25	38	60	81	142	245	549	549
26	38	59	81	142	244	548	548
27	37	59	80	141	244	548	548
28	37	58	80	141	243	547	547
29	36	58	79	140	243	547	547
30	35	57	78	140	242	546	546

2.15 *Canadian dollar*

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	17	30	54	125	237	541	1 228
2	18	32	55	126	238	542	990
3	21	35	57	121	236	539	809
4	22	37	60	123	235	539	671
5	23	40	65	127	235	539	564
6	25	42	69	131	235	539	539
7	26	44	71	134	235	539	539
8	26	45	70	133	235	538	538
9	26	46	70	132	235	539	539
10	27	47	71	132	235	539	539
11	27	48	71	133	235	539	539
12	28	49	71	133	235	539	539
13	28	50	71	133	235	539	539
14	28	50	71	133	235	539	539
15	28	50	71	133	235	539	539
16	28	50	71	133	235	539	539
17	28	50	71	133	235	539	539
18	28	50	71	132	235	539	539
19	28	50	71	132	235	539	539
20	28	50	71	133	235	539	539
21	28	50	71	132	235	539	539
22	28	50	71	132	235	538	538
23	27	49	70	132	234	538	538
24	27	49	70	131	234	538	538
25	26	48	69	131	233	537	537
26	26	48	69	130	233	537	537
27	26	47	69	130	233	536	536
28	25	47	68	130	232	536	536
29	25	47	68	129	232	535	535
30	24	46	67	129	231	535	535

2.16 *Chilean peso*

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	49	63	86	157	269	573	1 281
2	53	66	89	160	272	576	1 041
3	57	71	93	157	272	575	852
4	59	75	97	160	272	576	707
5	61	78	103	164	273	576	595
6	63	81	107	170	273	577	577
7	64	83	109	172	273	577	577
8	64	83	109	171	273	577	577
9	64	84	108	170	273	577	577
10	65	85	109	170	273	577	577
11	65	86	109	170	273	576	576
12	65	86	108	170	272	576	576
13	64	86	108	169	272	575	575
14	64	86	107	168	271	574	574
15	63	85	106	167	270	574	574
16	62	84	105	167	269	573	573
17	62	83	105	166	269	572	572
18	61	83	104	165	268	572	572
19	60	82	103	165	267	571	571
20	60	82	103	164	267	570	570
21	59	81	102	164	266	570	570
22	58	80	101	163	265	569	569
23	57	79	100	162	264	568	568
24	57	78	100	161	263	567	567
25	56	77	99	160	263	566	566
26	55	77	98	159	262	565	565
27	54	76	97	158	261	564	564
28	53	75	96	157	260	563	563
29	52	74	95	156	259	562	562
30	51	73	94	155	258	562	562

2.17 Colombian peso

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	81	94	118	188	301	604	1 271
2	86	99	122	193	305	609	1 038
3	88	102	125	188	303	606	856
4	89	104	127	190	302	605	714
5	92	109	134	195	304	607	607
6	94	112	139	201	305	608	608
7	96	115	141	204	305	609	609
8	97	117	142	205	307	610	610
9	98	118	143	205	308	611	611
10	99	120	144	205	308	611	611
11	100	121	143	205	307	611	611
12	99	121	143	204	307	610	610
13	98	120	142	203	306	609	609
14	97	119	140	202	304	608	608
15	96	118	139	200	303	607	607
16	95	116	138	199	302	605	605
17	93	115	136	198	300	604	604
18	92	114	135	196	299	603	603
19	91	112	134	195	298	601	601
20	89	111	132	194	296	600	600
21	88	110	131	192	295	598	598
22	86	108	129	191	293	597	597
23	85	107	128	189	292	595	595
24	83	105	126	188	290	594	594
25	81	103	124	186	288	592	592
26	80	102	123	184	287	590	590
27	78	100	121	183	285	589	589
28	77	98	120	181	284	587	587
29	75	97	118	179	282	586	586
30	74	95	117	178	281	584	584

2.18 Hong Kong dollar

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	11	24	48	118	231	534	1 218
2	14	27	51	121	234	537	982
3	17	32	54	118	233	536	802
4	20	36	58	121	233	537	665
5	23	39	64	126	234	538	560
6	24	42	68	131	235	538	538
7	26	44	70	134	235	538	538
8	26	45	70	133	235	538	538
9	26	46	70	132	235	538	538
10	26	47	71	132	235	538	538
11	27	48	71	132	235	538	538
12	27	48	70	132	234	538	538
13	27	48	70	131	234	537	537
14	26	48	69	131	233	537	537
15	26	47	69	130	233	536	536
16	25	47	68	129	232	535	535
17	24	46	67	129	231	535	535
18	24	46	67	129	231	535	535
19	24	46	67	128	231	535	535
20	24	46	67	129	231	535	535
21	24	46	67	129	231	535	535
22	24	46	67	129	231	535	535
23	24	46	67	129	231	535	535
24	24	46	67	129	231	535	535
25	24	46	67	128	231	535	535
26	24	46	67	128	231	534	534
27	24	45	67	128	231	534	534
28	23	45	66	128	230	534	534
29	23	45	66	128	230	534	534
30	23	45	66	127	230	534	534

2.19 *Indian rupee*

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	95	108	132	202	315	618	1 286
2	96	109	133	203	316	619	1 042
3	97	112	134	198	312	616	854
4	99	114	137	200	312	615	710
5	100	117	142	203	311	615	615
6	101	118	145	207	311	615	615
7	101	120	146	210	311	614	614
8	101	121	146	208	310	614	614
9	101	121	145	207	310	613	613
10	100	120	144	205	308	612	612
11	99	120	143	204	307	610	610
12	97	119	141	202	305	608	608
13	96	118	139	201	303	607	607
14	94	116	137	199	301	605	605
15	93	114	136	197	300	603	603
16	91	112	134	195	298	601	601
17	89	111	132	194	296	600	600
18	88	109	131	192	295	598	598
19	86	108	129	191	293	597	597
20	85	107	128	190	292	596	596
21	84	106	127	189	291	595	595
22	83	105	126	187	290	594	594
23	82	104	125	186	289	592	592
24	81	102	124	185	288	591	591
25	79	101	122	184	286	590	590
26	78	100	121	183	285	589	589
27	77	99	120	181	284	588	588
28	76	98	119	180	283	586	586
29	75	97	118	179	282	585	585
30	74	95	117	178	281	584	584

2.20 Mexican peso

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	319	332	356	427	539	843	1 326
2	85	98	121	192	304	608	1 074
3	88	102	125	188	303	607	879
4	92	107	130	193	305	608	729
5	94	111	136	197	306	609	614
6	96	113	140	203	306	610	610
7	97	116	142	206	307	610	610
8	98	117	143	205	307	611	611
9	99	119	143	205	308	611	611
10	99	120	143	205	307	611	611
11	100	121	143	205	307	611	611
12	100	122	144	205	308	611	611
13	101	123	144	205	308	612	612
14	102	123	145	206	308	612	612
15	102	124	145	207	309	613	613
16	103	125	146	208	310	614	614
17	104	126	147	209	311	615	615
18	105	127	148	210	312	616	616
19	106	128	149	210	313	617	617
20	107	128	150	211	313	617	617
21	107	128	150	211	314	617	617
22	106	128	149	211	313	617	617
23	106	127	149	210	313	616	616
24	105	126	148	209	312	615	615
25	104	125	147	208	311	614	614
26	102	124	145	207	309	613	613
27	101	123	144	205	308	612	612
28	100	121	143	204	307	610	610
29	98	120	141	203	305	609	609
30	97	119	140	201	304	607	607

2.21 *New Taiwan dollar*

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	0	12	36	106	219	522	1 219
2	1	12	36	106	219	522	980
3	2	14	36	100	215	518	799
4	2	16	38	101	213	517	661
5	4	17	43	104	212	516	555
6	4	19	45	108	211	515	515
7	5	20	46	110	211	514	514
8	6	20	45	108	210	514	514
9	7	20	44	106	209	513	513
10	8	21	44	106	208	512	512
11	8	22	44	106	208	512	512
12	9	22	44	106	208	512	512
13	10	23	44	106	208	512	512
14	11	23	45	106	209	512	512
15	12	24	45	106	209	512	512
16	12	24	45	106	209	513	513
17	13	24	46	107	210	513	513
18	14	25	46	107	210	514	514
19	14	26	47	108	211	514	514
20	15	26	48	109	212	515	515
21	16	27	48	110	212	516	516
22	17	28	49	110	213	517	517
23	17	28	50	111	214	517	517
24	18	29	50	111	214	518	518
25	18	29	50	112	214	518	518
26	19	30	51	112	215	518	518
27	19	30	51	112	215	519	519
28	21	30	51	113	215	519	519
29	21	30	52	113	216	519	519
30	22	31	52	113	216	519	519

2.22 New Zealand dollar

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	51	64	88	159	271	575	1 235
2	52	65	89	160	272	576	997
3	53	67	90	153	268	572	815
4	54	69	92	155	267	570	675
5	54	71	96	158	266	569	569
6	55	73	99	162	265	569	569
7	55	74	100	163	264	568	568
8	55	74	99	162	264	567	567
9	54	74	98	160	263	567	567
10	53	74	98	159	262	565	565
11	53	74	96	158	260	564	564
12	52	73	95	156	259	563	563
13	51	72	94	155	258	561	561
14	49	71	92	154	256	560	560
15	48	70	91	152	255	559	559
16	47	68	90	151	254	557	557
17	46	67	89	150	253	556	556
18	45	66	88	149	252	555	555
19	44	66	87	148	251	554	554
20	43	65	86	148	250	554	554
21	43	65	86	147	250	553	553
22	42	64	85	147	249	553	553
23	42	63	85	146	249	552	552
24	41	63	84	145	248	551	551
25	40	62	83	145	247	551	551
26	40	61	83	144	246	550	550
27	39	61	82	143	246	549	549
28	38	60	81	143	245	549	549
29	38	59	81	142	244	548	548
30	37	59	80	141	244	547	547

2.23 *Rand*

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	115	128	151	222	335	638	1 291
2	116	129	153	223	336	639	1 048
3	119	133	156	219	334	637	859
4	121	136	159	222	334	638	715
5	123	140	165	226	334	638	638
6	124	142	168	231	335	638	638
7	125	144	170	234	335	638	638
8	125	144	170	232	334	638	638
9	125	145	169	231	334	637	637
10	125	145	169	230	333	637	637
11	124	145	168	230	332	636	636
12	123	145	167	228	331	634	634
13	122	144	165	227	329	633	633
14	120	142	163	225	327	631	631
15	118	140	161	223	325	629	629
16	116	138	159	221	323	627	627
17	114	136	157	219	321	625	625
18	112	134	155	217	319	623	623
19	110	132	153	215	317	621	621
20	109	130	152	213	316	619	619
21	107	129	150	211	314	617	617
22	105	127	148	209	312	616	616
23	103	125	146	208	310	614	614
24	101	123	144	206	308	612	612
25	100	121	143	204	306	610	610
26	98	120	141	202	305	608	608
27	96	118	139	200	303	606	606
28	94	116	137	199	301	605	605
29	93	114	135	197	299	603	603
30	91	113	134	195	298	601	601

2.24 *Real*

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	166	179	202	273	386	689	1 380
2	176	189	212	283	395	699	1 120
3	182	196	219	282	397	700	919
4	185	200	223	286	398	701	763
5	186	203	228	290	398	701	701
6	187	204	231	293	397	701	701
7	187	205	232	295	396	700	700
8	185	205	230	293	395	698	698
9	184	204	229	291	393	697	697
10	184	204	228	290	392	696	696
11	183	204	227	288	391	694	694
12	181	202	224	286	388	692	692
13	178	200	222	283	385	689	689
14	176	197	219	280	383	686	686
15	173	194	216	277	380	683	683
16	170	191	213	274	377	680	680
17	167	188	210	271	374	677	677
18	164	185	207	268	371	674	674
19	161	183	204	265	368	671	671
20	158	180	201	262	365	668	668
21	155	177	198	259	362	665	665
22	152	174	195	256	359	662	662
23	149	171	192	253	356	659	659
24	146	167	189	250	353	656	656
25	143	164	186	247	350	653	653
26	140	161	183	244	347	650	650
27	137	159	180	241	344	647	647
28	134	156	177	238	341	644	644
29	131	153	174	236	338	642	642
30	129	150	171	233	335	639	639

2.25 Renminbi-yuan

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	32	45	69	139	252	555	1 257
2	33	46	70	140	253	556	1 012
3	34	49	71	135	249	553	826
4	35	51	74	136	248	552	684
5	36	53	78	139	248	551	575
6	37	54	81	143	247	551	551
7	37	56	82	145	246	550	550
8	36	55	81	143	245	549	549
9	35	55	80	142	244	548	548
10	35	56	79	141	244	547	547
11	35	56	79	140	243	547	547
12	35	56	78	140	242	546	546
13	35	56	78	139	242	545	545
14	34	56	77	139	241	545	545
15	34	56	77	138	241	545	545
16	34	56	77	138	241	545	545
17	34	56	77	138	241	545	545
18	34	56	77	138	241	545	545
19	34	56	77	138	241	545	545
20	34	56	77	139	241	545	545
21	34	56	77	139	241	545	545
22	34	56	77	138	241	545	545
23	34	56	77	138	241	544	544
24	34	55	77	138	241	544	544
25	33	55	76	138	240	544	544
26	33	55	76	137	240	544	544
27	33	55	76	137	240	543	543
28	32	54	75	137	239	543	543
29	32	54	75	136	239	543	543
30	32	53	75	136	239	542	542

2.26 Ringgit

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	29	42	66	136	249	552	1 247
2	31	44	67	138	251	554	1 007
3	33	48	70	134	249	552	824
4	36	51	74	137	249	552	684
5	38	54	80	141	249	553	576
6	39	57	83	146	250	553	553
7	41	59	86	149	250	554	554
8	41	60	86	148	250	554	554
9	41	61	86	148	250	554	554
10	42	63	86	148	251	554	554
11	43	64	87	148	251	555	555
12	44	65	87	149	251	555	555
13	44	66	87	149	251	555	555
14	44	66	87	149	251	555	555
15	44	66	87	148	251	555	555
16	44	66	87	148	251	554	554
17	44	66	87	148	251	554	554
18	44	66	87	148	251	554	554
19	44	66	87	148	251	555	555
20	44	66	87	149	251	555	555
21	44	66	87	149	251	555	555
22	44	66	87	149	251	555	555
23	44	66	87	148	251	555	555
24	44	65	87	148	251	554	554
25	43	65	86	148	250	554	554
26	43	65	86	147	250	553	553
27	42	64	85	147	249	553	553
28	42	63	85	146	249	552	552
29	41	63	84	145	248	552	552
30	40	62	83	145	247	551	551

2.27 Russian rouble

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	126	139	162	233	345	649	1 348
2	124	138	161	232	344	648	1 085
3	125	139	162	225	340	643	885
4	125	141	164	227	338	642	732
5	126	142	168	229	337	641	641
6	126	143	170	232	336	640	640
7	126	144	171	234	335	639	639
8	125	144	170	232	334	638	638
9	124	144	168	230	333	637	637
10	124	145	168	230	333	636	636
11	124	145	168	229	332	635	635
12	123	145	167	228	331	634	634
13	122	144	166	227	329	633	633
14	121	143	164	226	328	632	632
15	119	141	162	224	326	630	630
16	117	139	160	222	324	628	628
17	115	136	158	219	322	625	625
18	113	134	156	217	319	623	623
19	110	132	153	215	317	621	621
20	108	130	151	213	315	619	619
21	106	128	149	211	313	617	617
22	104	126	147	208	311	615	615
23	102	124	145	206	309	612	612
24	100	121	143	204	306	610	610
25	97	119	140	202	304	608	608
26	95	117	138	200	302	606	606
27	93	115	136	198	300	604	604
28	91	113	134	195	298	602	602
29	89	111	132	193	296	600	600
30	87	109	130	192	294	598	598

2.28 Singapore dollar

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	0	13	37	107	220	523	1 220
2	2	15	38	109	222	525	984
3	4	19	41	105	219	523	805
4	7	22	45	108	220	523	668
5	9	25	51	112	220	524	562
6	10	28	54	117	221	524	524
7	12	30	57	120	221	525	525
8	12	31	56	119	221	525	525
9	12	32	56	118	221	525	525
10	12	33	56	118	221	524	524
11	13	34	56	118	220	524	524
12	13	34	56	118	220	524	524
13	13	34	56	117	220	524	524
14	13	35	56	117	220	523	523
15	13	34	56	117	219	523	523
16	13	34	55	117	219	523	523
17	13	34	55	117	219	523	523
18	14	34	55	117	219	523	523
19	14	34	55	117	219	523	523
20	15	35	56	117	220	523	523
21	16	35	56	118	220	524	524
22	17	35	57	118	221	524	524
23	18	36	57	118	221	524	524
24	18	36	57	118	221	525	525
25	19	36	57	119	221	525	525
26	19	36	57	119	221	525	525
27	21	36	57	119	221	525	525
28	21	36	57	119	221	525	525
29	22	36	57	119	221	525	525
30	22	36	57	119	221	525	525

2.29 South Korean won

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	36	49	72	143	255	559	1 240
2	36	49	73	143	256	559	1 000
3	36	51	73	137	251	555	816
4	36	52	75	138	249	553	675
5	37	53	79	140	248	552	568
6	39	56	83	146	249	553	553
7	37	55	82	145	246	550	550
8	40	59	85	147	249	553	553
9	39	59	84	145	248	552	552
10	34	55	79	140	243	547	547
11	31	52	75	136	238	542	542
12	28	49	71	133	235	539	539
13	26	47	69	130	233	536	536
14	24	46	67	128	231	535	535
15	23	44	66	127	230	533	533
16	21	43	64	126	228	532	532
17	20	42	63	125	227	531	531
18	20	41	63	124	227	530	530
19	19	41	62	124	226	530	530
20	19	41	62	124	226	530	530
21	19	41	62	124	226	530	530
22	19	41	62	124	226	530	530
23	19	41	62	124	226	530	530
24	19	41	62	123	226	530	530
25	19	41	62	123	226	530	530
26	19	41	62	123	226	529	529
27	21	41	62	123	226	529	529
28	21	40	62	123	225	529	529
29	22	40	61	123	225	529	529
30	22	40	61	123	225	529	529

2.30 Turkish lira

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	205	218	242	312	425	728	1 570
2	201	215	238	309	421	725	1 268
3	198	212	235	298	413	716	1 038
4	194	210	233	296	407	711	860
5	191	207	233	294	402	706	723
6	187	205	231	294	397	701	701
7	184	202	229	292	393	697	697
8	179	199	224	286	389	692	692
9	175	195	220	282	384	688	688
10	172	192	216	277	380	684	684
11	168	189	212	274	376	680	680
12	165	186	208	269	372	676	676
13	161	183	204	265	368	672	672
14	157	179	200	262	364	668	668
15	154	175	197	258	361	664	664
16	150	172	193	255	357	661	661
17	147	169	190	251	354	657	657
18	144	166	187	248	351	654	654
19	141	163	184	245	348	651	651
20	138	160	181	242	345	649	649
21	135	157	178	240	342	646	646
22	132	154	175	237	339	643	643
23	130	151	173	234	337	640	640
24	127	149	170	231	334	638	638
25	124	146	167	229	331	635	635
26	122	144	165	226	329	632	632
27	119	141	162	224	326	630	630
28	117	139	160	221	324	627	627
29	115	136	158	219	321	625	625
30	112	134	155	217	319	623	623

2.31 US dollar

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	9	25	49	103	236	539	1 218
2	9	25	49	103	236	539	981
3	10	28	51	98	234	537	802
4	13	33	54	96	234	538	665
5	17	39	59	99	235	539	560
6	18	42	64	96	236	539	539
7	20	44	63	90	236	540	540
8	18	43	63	90	236	540	540
9	19	45	65	93	236	540	540
10	21	48	67	97	236	540	540
11	22	50	69	100	236	540	540
12	24	52	70	101	236	540	540
13	25	54	71	101	236	540	540
14	26	55	71	101	236	540	540
15	26	55	71	101	236	540	540
16	26	55	71	101	236	540	540
17	26	55	71	101	236	540	540
18	26	55	71	101	236	540	540
19	26	55	71	101	236	540	540
20	26	55	71	101	236	540	540
21	26	55	71	101	237	540	540
22	26	55	71	101	237	540	540
23	26	55	71	101	237	540	540
24	26	55	71	101	236	540	540
25	26	55	71	101	236	540	540
26	26	55	71	101	236	540	540
27	26	55	71	101	236	539	539
28	26	55	71	101	236	539	539
29	26	55	71	101	235	539	539
30	26	55	71	101	235	538	538

2.32 Yen

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	0	3	15	86	198	502	1 214
2	1	5	14	84	197	500	976
3	2	5	13	77	192	495	795
4	2	6	15	78	190	493	658
5	4	7	19	81	189	493	553
6	4	7	22	85	188	492	492
7	5	9	24	87	188	492	492
8	6	9	23	86	188	492	492
9	7	10	23	85	188	492	492
10	8	11	24	85	188	492	492
11	8	11	24	86	188	492	492
12	9	13	24	86	188	492	492
13	10	13	24	86	188	492	492
14	10	14	25	86	189	492	492
15	12	14	26	86	189	493	493
16	12	16	27	86	189	493	493
17	13	16	29	87	189	493	493
18	14	17	30	87	190	493	493
19	14	18	31	88	190	494	494
20	15	18	32	88	191	495	495
21	15	20	34	89	191	495	495
22	17	20	35	89	192	495	495
23	17	21	36	89	192	496	496
24	18	21	37	90	192	496	496
25	18	22	38	90	192	496	496
26	19	23	39	90	192	496	496
27	19	24	41	90	192	496	496
28	21	25	42	89	192	496	496
29	21	25	43	89	192	496	496
30	22	26	44	89	192	496	496

3. Other exposures

3.1 Euro

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	2	15	21	42	160	300	3 173
2	2	15	21	42	160	344	2 356
3	2	15	23	47	155	361	1 772
4	2	16	26	51	153	361	1 365
5	3	18	29	53	153	353	1 079
6	4	20	32	56	153	340	873
7	6	23	33	58	153	324	720
8	6	24	35	61	153	306	604
9	6	24	36	63	153	289	514
10	6	25	38	66	153	272	442
11	7	26	38	66	153	255	383
12	7	26	38	67	153	247	335
13	7	26	38	67	153	247	294
14	7	26	38	67	153	247	260
15	7	26	38	67	153	247	247
16	7	26	41	67	153	247	247
17	7	26	43	67	153	247	247
18	7	26	46	67	153	247	247
19	7	26	48	67	153	247	247
20	7	26	50	67	153	247	247
21	7	26	53	67	153	247	247
22	8	26	55	67	153	247	247
23	8	26	57	67	153	247	247
24	8	26	59	67	153	247	247
25	9	26	62	67	153	247	247
26	9	26	64	68	153	247	247
27	10	26	67	70	153	247	247
28	10	26	69	72	153	247	247
29	10	26	72	74	153	247	247
30	11	26	74	75	153	247	247

3.2 Czech koruna

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	10	22	29	50	168	314	3 329
2	12	24	31	52	170	361	2 481
3	12	25	33	57	165	378	1 867
4	12	26	36	61	163	378	1 436
5	12	27	39	63	162	369	1 133
6	13	29	41	65	162	355	915
7	14	31	42	66	161	337	754
8	13	31	42	68	160	319	631
9	13	32	43	71	160	301	536
10	13	32	44	72	160	282	460
11	13	32	44	73	159	265	399
12	12	31	44	72	158	252	348
13	12	31	43	72	158	252	306
14	11	30	43	71	157	251	271
15	11	30	42	71	157	251	251
16	10	29	42	70	156	250	250
17	10	29	44	70	156	250	250
18	10	29	47	70	156	250	250
19	10	29	50	70	156	250	250
20	11	30	51	70	157	251	251
21	11	30	54	71	157	251	251
22	11	30	57	71	157	251	251
23	11	30	59	71	157	251	251
24	11	30	62	71	157	251	251
25	11	30	64	71	157	251	251
26	11	30	66	71	157	251	251
27	11	30	69	72	157	251	251
28	11	30	71	74	157	251	251
29	11	30	73	76	157	251	251
30	11	30	77	78	157	251	251

3.3 Danish krone

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	2	14	21	42	160	300	3 173
2	2	14	21	42	160	344	2 356
3	1	15	23	47	155	361	1 772
4	1	16	26	51	153	361	1 365
5	2	18	29	53	153	353	1 079
6	4	20	31	56	153	340	873
7	5	23	33	58	153	324	720
8	5	23	34	60	153	306	604
9	6	24	36	63	153	289	514
10	6	25	38	65	153	272	441
11	6	25	38	66	153	255	383
12	7	26	38	66	153	247	335
13	7	26	38	66	153	247	294
14	7	26	38	66	153	247	260
15	7	26	38	66	153	247	247
16	7	26	41	66	153	247	247
17	7	26	43	66	153	247	247
18	7	26	46	66	153	247	247
19	7	26	48	66	153	247	247
20	7	26	50	66	153	247	247
21	7	26	53	66	153	247	247
22	8	26	55	66	153	247	247
23	8	26	57	66	153	247	247
24	8	26	59	66	153	247	247
25	9	26	62	66	153	247	247
26	9	26	64	68	153	247	247
27	10	26	67	70	153	247	247
28	10	26	69	72	153	247	247
29	10	26	72	74	153	247	247
30	11	26	74	75	153	247	247

3.4 Forint

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	73	85	92	113	231	327	3 280
2	70	82	88	110	228	356	2 447
3	72	85	93	117	225	375	1 846
4	70	84	94	119	221	376	1 425
5	69	84	96	119	219	368	1 127
6	69	85	96	121	218	355	913
7	69	86	97	121	216	338	753
8	68	86	97	123	215	321	632
9	67	86	97	125	214	308	537
10	64	83	96	123	211	305	462
11	62	81	94	122	208	302	401
12	61	80	93	121	207	301	350
13	60	79	92	120	206	300	308
14	60	79	92	120	206	300	300
15	60	79	91	120	206	300	300
16	59	78	91	119	205	299	299
17	59	78	90	119	205	299	299
18	58	77	90	118	204	298	298
19	58	77	89	117	204	298	298
20	57	76	89	117	203	297	297
21	56	75	88	116	202	297	297
22	56	75	87	115	202	296	296
23	55	74	86	115	201	295	295
24	54	73	85	114	200	294	294
25	53	72	84	113	199	293	293
26	52	71	83	112	198	292	292
27	51	70	82	111	197	291	291
28	50	69	81	109	196	290	290
29	49	68	80	108	195	289	289
30	48	67	79	107	194	288	288

3.5 Křona

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	6	18	25	46	164	302	3 200
2	8	20	26	48	166	347	2 377
3	8	21	30	54	162	364	1 790
4	9	23	33	58	160	365	1 379
5	10	25	37	60	160	357	1 091
6	11	28	39	63	160	343	882
7	13	30	40	65	160	327	728
8	12	30	41	67	159	310	611
9	12	31	42	70	159	292	519
10	12	31	44	71	159	275	446
11	12	31	44	72	158	258	388
12	12	31	44	72	158	252	339
13	12	31	44	72	158	252	299
14	12	31	44	72	158	252	264
15	12	31	44	72	158	252	252
16	12	31	44	72	158	252	252
17	12	31	44	72	158	252	252
18	12	31	46	72	158	252	252
19	13	32	49	72	159	253	253
20	13	32	51	73	159	253	253
21	13	33	54	73	160	254	254
22	14	33	56	74	160	254	254
23	14	33	58	74	160	254	254
24	14	33	61	74	160	254	254
25	14	33	63	74	160	254	254
26	14	33	66	74	160	254	254
27	14	33	68	74	160	254	254
28	14	33	71	74	160	254	254
29	14	33	73	75	160	254	254
30	13	33	76	77	160	254	254

3.6 Kuna

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	43	55	62	83	201	302	3 194
2	47	59	65	87	205	346	2 372
3	50	64	72	96	204	363	1 784
4	53	67	77	102	204	363	1 374
5	54	70	81	105	205	355	1 085
6	56	72	83	108	205	341	878
7	57	74	85	109	204	326	725
8	56	74	85	111	203	309	609
9	55	74	85	113	202	296	518
10	54	73	86	114	201	295	446
11	53	72	85	113	200	294	387
12	52	71	84	112	198	292	339
13	51	70	83	111	197	291	298
14	50	69	81	110	196	290	290
15	49	68	80	109	195	289	289
16	48	67	80	108	194	288	288
17	47	66	79	107	193	287	287
18	47	66	78	107	193	287	287
19	46	65	78	106	192	286	286
20	46	65	77	105	192	286	286
21	45	64	77	105	191	285	285
22	44	63	76	104	190	284	284
23	44	63	75	103	190	284	284
24	43	62	74	103	189	283	283
25	42	61	74	102	188	282	282
26	41	60	73	101	187	281	281
27	40	59	72	100	186	280	280
28	40	59	71	99	186	280	280
29	39	58	73	99	185	279	279
30	38	57	76	98	184	278	278

3.7 Lev

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	1	14	20	41	160	300	3 170
2	1	14	20	41	160	344	2 354
3	1	14	22	46	154	360	1 771
4	1	15	25	50	152	361	1 364
5	2	17	28	52	152	353	1 078
6	3	19	31	55	152	339	872
7	5	22	32	57	152	323	720
8	5	23	34	60	152	306	604
9	5	24	35	63	152	289	513
10	5	24	37	65	152	271	441
11	6	25	37	65	152	255	383
12	6	25	38	66	152	246	334
13	6	25	38	66	152	246	294
14	6	25	37	66	152	246	260
15	6	25	38	66	152	246	246
16	6	25	41	66	152	246	246
17	6	25	43	66	152	246	246
18	6	25	46	66	152	246	246
19	7	25	48	66	152	246	246
20	7	25	50	66	152	246	246
21	7	25	53	66	152	246	246
22	8	25	55	66	152	246	246
23	8	25	57	66	152	246	246
24	8	25	59	66	152	246	246
25	9	25	62	66	152	246	246
26	9	25	64	68	152	246	246
27	10	25	67	70	152	246	246
28	10	25	69	72	152	246	246
29	10	25	72	74	152	246	246
30	11	25	74	75	152	246	246

3.8 *Pound sterling*

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	0	11	22	45	178	305	3 224
2	0	11	22	45	178	350	2 400
3	1	11	23	49	173	367	1 807
4	1	13	26	55	170	368	1 392
5	1	16	28	59	169	359	1 100
6	2	18	33	60	168	346	889
7	3	21	36	60	167	329	734
8	5	24	37	59	166	312	615
9	8	30	42	58	165	294	523
10	11	34	42	57	164	276	449
11	10	33	41	57	163	259	389
12	9	32	41	56	162	256	340
13	8	31	42	57	162	256	299
14	8	31	42	57	161	255	265
15	8	31	43	57	160	254	254
16	8	31	43	57	159	253	253
17	8	31	44	57	158	252	252
18	8	31	46	57	157	251	251
19	8	31	48	57	157	251	251
20	8	31	51	57	158	252	252
21	8	31	53	59	158	252	252
22	8	31	55	61	157	251	251
23	8	31	58	63	157	251	251
24	9	31	61	65	156	250	250
25	9	31	62	67	156	250	250
26	9	31	65	68	155	249	249
27	10	31	67	70	155	249	249
28	10	31	70	73	154	248	248
29	11	31	72	75	154	248	248
30	11	31	74	76	153	247	247

3.9 Romanian leu

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	80	92	99	120	238	334	3 339
2	78	91	97	119	237	362	2 490
3	76	90	98	122	230	380	1 878
4	75	89	99	124	226	382	1 449
5	73	88	100	123	223	374	1 146
6	73	89	100	125	222	360	928
7	72	89	100	124	219	343	766
8	70	88	99	125	217	326	643
9	68	87	98	126	215	309	546
10	67	86	98	126	213	308	469
11	66	85	97	126	212	306	407
12	64	83	96	124	210	305	356
13	63	82	95	123	209	303	313
14	62	81	93	121	208	302	302
15	60	79	92	120	206	300	300
16	59	78	91	119	205	299	299
17	58	77	90	118	204	298	298
18	57	76	89	117	203	297	297
19	56	75	88	116	202	297	297
20	56	75	87	115	202	296	296
21	55	74	86	115	201	295	295
22	54	73	85	114	200	294	294
23	53	72	84	113	199	293	293
24	52	71	83	112	198	292	292
25	51	70	82	110	197	291	291
26	49	69	81	109	196	290	290
27	48	68	80	108	195	289	289
28	47	66	79	107	193	288	288
29	46	65	78	106	192	286	286
30	45	64	78	105	191	285	285

3.10 Zloty

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	52	65	71	92	210	306	3 209
2	51	64	70	92	210	350	2 396
3	50	63	72	96	204	368	1 808
4	49	63	74	99	201	369	1 395
5	49	64	75	99	199	361	1 104
6	49	65	76	101	197	348	894
7	49	66	77	101	196	332	739
8	48	65	77	102	195	315	620
9	46	65	77	104	193	297	528
10	46	65	77	105	192	286	454
11	45	64	77	105	191	285	394
12	44	64	76	104	191	285	344
13	44	63	75	104	190	284	303
14	43	62	75	103	189	283	283
15	43	62	74	103	189	283	283
16	42	61	73	102	188	282	282
17	41	60	73	101	187	281	281
18	41	60	72	101	187	281	281
19	40	59	72	100	186	280	280
20	40	59	72	100	186	280	280
21	40	59	72	100	186	280	280
22	39	59	71	99	186	280	280
23	39	58	71	99	185	279	279
24	38	57	70	98	184	278	278
25	38	57	69	98	184	278	278
26	37	56	69	97	183	277	277
27	36	55	69	96	182	276	276
28	36	55	71	95	182	276	276
29	35	54	74	95	181	275	275
30	34	53	76	94	180	274	274

3.11 Norwegian krone

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	27	39	46	67	185	307	3 250
2	28	40	46	68	186	353	2 424
3	26	40	48	72	180	371	1 826
4	26	40	50	75	177	372	1 408
5	26	41	52	76	176	363	1 112
6	26	43	54	78	175	350	899
7	27	44	55	80	174	333	742
8	26	44	55	81	174	315	622
9	26	45	56	84	173	297	528
10	26	45	57	85	172	279	454
11	25	44	57	85	172	266	394
12	25	44	56	85	171	265	344
13	24	43	56	84	170	264	303
14	23	43	55	83	170	264	268
15	23	42	55	83	169	263	263
16	22	41	54	82	168	262	262
17	22	41	53	82	168	262	262
18	21	41	53	81	168	262	262
19	21	40	53	81	167	261	261
20	21	40	53	81	167	262	262
21	21	41	54	81	168	262	262
22	21	40	57	81	167	261	261
23	21	40	58	81	167	261	261
24	21	40	61	81	167	261	261
25	21	40	64	81	167	261	261
26	20	40	66	80	167	261	261
27	20	39	69	80	166	260	260
28	20	39	71	80	166	260	260
29	20	39	73	79	166	260	260
30	19	38	76	79	165	259	259

3.12 *Swiss franc*

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	0	0	3	24	142	299	3 163
2	0	1	6	25	143	343	2 349
3	1	1	8	30	138	360	1 767
4	1	3	11	33	135	360	1 362
5	1	4	14	35	135	352	1 077
6	2	4	16	39	135	339	871
7	2	6	19	41	135	323	719
8	2	6	22	43	135	306	603
9	3	7	24	46	135	289	513
10	4	8	26	48	135	271	441
11	4	9	29	50	136	255	382
12	4	10	31	49	135	238	334
13	4	10	34	50	136	230	294
14	4	12	36	49	136	230	260
15	5	12	38	48	134	229	231
16	6	13	41	48	134	228	228
17	6	14	43	50	133	228	228
18	6	15	45	52	134	228	228
19	7	15	47	54	134	228	228
20	7	17	50	56	134	228	228
21	7	17	53	58	135	229	229
22	8	18	54	60	135	229	229
23	8	18	57	61	135	229	229
24	8	20	59	64	134	229	229
25	9	20	62	66	134	228	228
26	9	21	64	68	136	228	228
27	10	23	67	70	137	228	228
28	10	23	69	71	138	228	228
29	10	24	72	73	139	228	228
30	11	25	74	75	141	228	228

3.13 *Australian dollar*

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	41	53	60	81	199	303	3 205
2	41	54	60	81	199	348	2 384
3	40	53	62	86	194	365	1 797
4	40	54	64	89	191	367	1 387
5	40	55	66	90	190	359	1 098
6	40	56	68	92	189	346	889
7	41	58	69	93	188	330	734
8	40	58	69	95	187	313	616
9	39	58	69	97	186	295	524
10	39	58	70	98	185	279	451
11	38	57	70	98	185	279	391
12	38	57	69	98	184	278	342
13	37	56	69	97	183	277	301
14	36	56	68	96	183	277	277
15	36	55	68	96	182	276	276
16	35	54	67	95	181	275	275
17	35	54	66	94	181	275	275
18	34	53	66	94	180	274	274
19	34	53	65	94	180	274	274
20	33	53	65	93	180	274	274
21	33	52	65	93	179	273	273
22	33	52	64	93	179	273	273
23	32	51	64	92	178	272	272
24	32	51	63	91	178	272	272
25	31	50	63	91	177	271	271
26	30	49	66	90	176	270	270
27	29	49	68	89	176	270	270
28	29	48	71	89	175	269	269
29	28	47	73	88	174	268	268
30	27	46	76	87	173	268	268

3.14 Baht

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	13	26	32	53	171	305	3 230
2	17	29	36	57	175	349	2 396
3	19	33	41	65	173	366	1 804
4	22	36	46	71	173	368	1 392
5	24	39	51	74	174	360	1 102
6	23	40	51	75	172	347	892
7	28	46	56	81	176	331	737
8	27	45	56	82	174	314	619
9	28	47	58	86	175	296	526
10	30	49	61	89	176	279	453
11	31	50	63	91	177	271	393
12	32	51	64	92	178	272	344
13	32	51	64	92	178	272	302
14	33	52	64	92	179	273	273
15	33	52	64	93	179	273	273
16	32	51	64	92	178	272	272
17	32	51	64	92	178	273	273
18	32	51	63	92	178	272	272
19	31	51	63	91	178	272	272
20	32	51	63	91	178	272	272
21	31	51	63	91	178	272	272
22	31	50	63	91	177	271	271
23	31	50	63	91	177	271	271
24	30	50	62	90	177	271	271
25	30	49	64	90	176	270	270
26	30	49	66	89	176	270	270
27	29	48	69	89	175	269	269
28	28	48	71	88	175	269	269
29	28	47	73	88	174	268	268
30	27	46	76	87	173	268	268

3.15 *Canadian dollar*

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	13	25	31	53	171	306	3 237
2	14	26	33	54	172	351	2 409
3	14	28	36	60	168	369	1 817
4	15	29	39	64	166	370	1 401
5	16	31	42	66	166	362	1 108
6	17	34	45	69	166	349	897
7	19	36	47	71	166	332	740
8	19	37	48	74	166	315	621
9	19	38	49	77	166	297	528
10	20	39	51	79	166	279	454
11	20	39	52	80	166	262	393
12	20	39	52	80	166	260	344
13	20	39	52	80	166	260	302
14	20	39	52	80	166	260	267
15	20	39	52	80	166	260	260
16	20	39	52	80	166	260	260
17	20	39	52	80	166	260	260
18	20	39	52	80	166	260	260
19	20	39	52	80	166	260	260
20	20	39	52	80	166	260	260
21	20	39	54	80	166	260	260
22	20	39	57	80	166	260	260
23	19	38	58	79	165	259	259
24	19	38	61	79	165	259	259
25	18	38	63	78	165	259	259
26	18	37	66	78	164	258	258
27	18	37	68	77	164	258	258
28	17	36	71	77	163	257	257
29	17	36	73	77	163	257	257
30	16	35	76	77	162	256	256

3.16 *Chilean peso*

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	45	57	64	85	203	319	3 388
2	48	60	67	88	206	369	2 542
3	51	64	72	96	204	388	1 920
4	52	66	76	101	203	390	1 482
5	54	69	80	104	204	382	1 172
6	56	72	83	108	204	368	948
7	57	74	85	110	204	351	782
8	57	75	86	112	204	332	656
9	57	76	87	115	204	314	558
10	58	77	89	117	204	298	479
11	58	77	89	117	204	298	416
12	57	76	89	117	203	297	363
13	57	76	88	116	203	297	319
14	56	75	87	116	202	296	296
15	55	74	87	115	201	295	295
16	54	73	86	114	200	294	294
17	54	73	85	114	200	294	294
18	53	72	85	113	199	293	293
19	52	71	84	112	198	293	293
20	52	71	83	112	198	292	292
21	51	70	83	111	197	291	291
22	50	69	82	110	196	290	290
23	49	68	81	109	195	290	290
24	48	68	80	108	195	289	289
25	48	67	79	107	194	288	288
26	47	66	78	106	193	287	287
27	46	65	77	106	192	286	286
28	45	64	76	105	191	285	285
29	44	63	76	104	190	284	284
30	43	62	80	103	189	283	283

3.17 Colombian peso

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	76	89	95	117	235	330	3 357
2	81	94	100	121	239	368	2 534
3	82	95	103	127	235	391	1 928
4	82	96	106	131	233	395	1 495
5	85	100	111	135	235	388	1 187
6	87	103	115	139	236	375	963
7	89	107	117	142	237	358	796
8	91	108	120	146	238	340	669
9	92	110	122	149	239	333	569
10	92	111	124	152	239	333	490
11	92	111	124	152	239	333	425
12	92	111	123	152	238	332	371
13	91	110	122	150	237	331	331
14	89	108	121	149	235	329	329
15	88	107	120	148	234	328	328
16	87	106	118	146	233	327	327
17	85	104	117	145	231	325	325
18	84	103	116	144	230	324	324
19	83	102	114	142	229	323	323
20	81	100	113	141	227	321	321
21	80	99	112	140	226	320	320
22	78	97	110	138	224	318	318
23	77	96	108	137	223	317	317
24	75	94	107	135	221	315	315
25	73	93	105	133	220	314	314
26	72	91	103	132	218	312	312
27	70	89	102	130	216	310	310
28	69	88	100	128	215	309	309
29	67	86	99	127	213	307	307
30	66	85	97	125	212	306	306

3.18 Hong Kong dollar

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	7	19	25	47	165	303	3 211
2	10	22	28	50	168	349	2 388
3	11	25	33	57	165	366	1 801
4	13	27	37	62	164	367	1 389
5	15	30	42	65	165	359	1 099
6	17	33	44	69	166	346	890
7	19	36	46	71	166	330	735
8	19	37	48	74	166	313	616
9	19	38	49	77	166	295	524
10	19	38	51	79	166	277	450
11	20	39	51	79	166	260	391
12	19	38	51	79	165	260	341
13	19	38	50	79	165	259	300
14	18	37	50	78	164	258	266
15	18	37	49	77	164	258	258
16	17	36	48	77	163	257	257
17	16	36	48	76	163	257	257
18	16	35	48	76	162	256	256
19	16	35	49	76	162	256	256
20	16	35	51	76	162	256	256
21	16	35	54	76	162	256	256
22	16	35	56	76	162	256	256
23	16	35	58	76	162	256	256
24	16	35	61	76	162	256	256
25	16	35	63	76	162	256	256
26	16	35	66	76	162	256	256
27	16	35	68	75	162	256	256
28	15	34	71	75	161	256	256
29	15	34	73	75	161	255	255
30	15	34	76	77	161	255	255

3.19 *Indian rupee*

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	90	103	109	131	249	345	3 401
2	91	104	110	132	250	369	2 546
3	91	104	113	137	245	389	1 925
4	91	106	116	141	243	392	1 489
5	92	107	119	143	243	384	1 180
6	93	110	121	145	242	371	956
7	94	112	122	147	242	354	790
8	94	112	123	149	242	336	663
9	94	112	124	151	241	335	564
10	93	112	124	152	239	333	485
11	92	111	123	151	238	332	420
12	90	109	122	150	236	330	367
13	88	107	120	148	234	328	328
14	86	105	118	146	232	326	326
15	85	104	116	144	231	325	325
16	83	102	114	142	229	323	323
17	81	100	113	141	227	321	321
18	80	99	111	139	226	320	320
19	78	97	110	138	224	318	318
20	77	96	109	137	223	317	317
21	76	95	108	136	222	316	316
22	75	94	107	135	221	315	315
23	74	93	105	134	220	314	314
24	73	92	104	132	219	313	313
25	71	90	103	131	217	311	311
26	70	89	102	130	216	310	310
27	69	88	101	129	215	309	309
28	68	87	99	128	214	308	308
29	67	86	98	127	213	307	307
30	66	85	97	125	212	306	306

3.20 Mexican peso

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	315	327	334	355	473	569	3 513
2	80	93	99	120	238	380	2 629
3	82	95	104	128	236	400	1 985
4	84	98	109	134	236	402	1 531
5	86	102	113	137	237	393	1 211
6	88	105	116	140	237	379	979
7	90	108	118	143	238	361	808
8	91	109	120	146	238	342	677
9	92	110	122	149	239	333	576
10	92	111	123	151	239	333	495
11	92	111	124	152	239	333	429
12	93	112	124	152	239	333	375
13	93	112	125	153	239	333	333
14	94	113	125	153	240	334	334
15	94	113	126	154	240	334	334
16	95	114	127	155	241	335	335
17	96	115	128	156	242	336	336
18	97	116	129	157	243	337	337
19	98	117	130	158	244	338	338
20	98	118	130	158	245	339	339
21	99	118	130	158	245	339	339
22	98	117	130	158	244	338	338
23	98	117	129	157	244	338	338
24	97	116	128	156	243	337	337
25	96	115	127	155	242	336	336
26	94	113	126	154	240	334	334
27	93	112	125	153	239	333	333
28	92	111	123	151	238	332	332
29	90	109	122	150	236	330	330
30	89	108	120	149	235	329	329

3.21 *New Taiwan dollar*

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	0	7	13	35	153	303	3 211
2	0	7	13	35	153	348	2 384
3	1	7	15	39	147	364	1 792
4	1	7	17	42	144	365	1 380
5	1	8	20	43	143	356	1 090
6	2	10	21	46	142	342	881
7	2	12	22	47	142	326	727
8	2	12	23	49	141	309	609
9	3	12	25	51	140	291	517
10	4	12	26	52	140	273	444
11	4	12	29	53	139	256	385
12	4	12	32	53	139	240	337
13	4	12	34	53	139	234	296
14	4	13	37	53	140	234	262
15	6	13	38	54	140	234	234
16	6	13	41	54	140	234	234
17	6	14	44	54	141	235	235
18	6	15	46	55	141	235	235
19	7	15	48	56	142	236	236
20	7	17	51	57	143	237	237
21	7	17	53	59	143	238	238
22	8	18	55	61	144	238	238
23	8	19	58	63	145	239	239
24	9	20	61	65	145	239	239
25	9	21	62	66	145	240	240
26	9	21	65	68	146	240	240
27	10	23	67	70	146	240	240
28	10	23	70	73	146	240	240
29	11	24	72	75	147	241	241
30	11	25	74	77	147	241	241

3.22 *New Zealand dollar*

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	47	59	66	87	205	307	3 258
2	48	60	67	88	206	354	2 428
3	47	60	69	93	201	371	1 830
4	47	61	71	96	198	373	1 411
5	47	62	73	97	197	364	1 115
6	48	64	75	100	197	351	902
7	48	65	76	100	195	334	744
8	48	66	77	103	195	317	624
9	47	66	77	105	194	299	531
10	46	65	78	106	193	287	456
11	45	64	77	105	192	286	396
12	44	63	76	104	190	284	346
13	43	62	74	103	189	283	304
14	41	60	73	101	187	281	281
15	40	59	72	100	186	280	280
16	39	58	70	98	185	279	279
17	38	57	69	97	184	278	278
18	37	56	68	96	183	277	277
19	36	55	67	96	182	276	276
20	35	54	67	95	181	275	275
21	35	54	66	95	181	275	275
22	34	53	66	94	180	274	274
23	34	53	65	93	180	274	274
24	33	52	65	93	179	273	273
25	32	51	64	92	178	272	272
26	31	51	66	91	178	272	272
27	31	50	69	91	177	271	271
28	30	49	71	90	176	270	270
29	29	49	73	89	176	270	270
30	29	48	76	89	175	269	269

3.23 *Rand*

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	110	123	129	151	269	364	3 414
2	112	124	130	152	270	371	2 560
3	113	126	134	158	266	392	1 937
4	114	128	138	163	265	394	1 499
5	115	131	142	166	266	387	1 188
6	117	133	145	169	266	374	964
7	118	136	146	171	266	360	798
8	118	136	147	173	265	359	671
9	118	137	148	176	265	359	572
10	118	137	149	177	264	358	492
11	117	136	149	177	263	357	428
12	116	135	147	176	262	356	374
13	114	133	146	174	260	354	354
14	112	131	144	172	258	352	352
15	110	130	142	170	257	351	351
16	108	127	140	168	254	348	348
17	106	125	138	166	252	346	346
18	104	123	136	164	250	344	344
19	102	121	134	162	248	342	342
20	101	120	132	160	247	341	341
21	99	118	131	159	245	339	339
22	97	116	129	157	243	337	337
23	95	114	127	155	241	335	335
24	93	112	125	153	239	333	333
25	91	111	123	151	238	332	332
26	90	109	121	149	236	330	330
27	88	107	119	148	234	328	328
28	86	105	118	146	232	326	326
29	84	104	116	144	231	325	325
30	83	102	114	143	229	323	323

3.24 *Real*

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	161	174	180	202	320	415	3 668
2	171	184	190	211	329	425	2 752
3	176	189	197	221	329	425	2 082
4	177	192	202	227	329	423	1 608
5	179	194	205	229	329	423	1 273
6	179	196	207	231	328	422	1 030
7	180	197	208	232	327	421	850
8	179	196	208	234	326	420	713
9	178	196	208	235	325	419	606
10	177	196	208	236	323	417	520
11	175	194	207	235	322	416	451
12	173	192	205	233	319	413	413
13	170	190	202	230	317	411	411
14	168	187	199	227	314	408	408
15	165	184	196	224	311	405	405
16	162	181	193	221	308	402	402
17	159	178	190	218	305	399	399
18	156	175	187	215	302	396	396
19	153	172	184	213	299	393	393
20	150	169	181	210	296	390	390
21	147	166	178	207	293	387	387
22	144	163	175	204	290	384	384
23	141	160	172	201	287	381	381
24	138	157	169	197	284	378	378
25	135	154	166	194	281	375	375
26	132	151	163	191	278	372	372
27	129	148	160	189	275	369	369
28	126	145	157	186	272	366	366
29	123	142	155	183	269	363	363
30	120	140	152	180	267	361	361

3.25 Renminbi-yuan

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	28	40	46	68	186	313	3 321
2	28	41	47	69	187	359	2 468
3	28	41	50	74	182	376	1 857
4	28	42	52	77	179	377	1 431
5	28	44	55	79	179	369	1 131
6	29	45	57	81	178	355	915
7	30	47	58	83	177	338	754
8	29	47	58	84	176	320	633
9	29	47	59	86	175	302	538
10	28	47	60	87	175	284	462
11	28	47	59	88	174	268	400
12	27	46	59	87	173	267	350
13	27	46	58	87	173	267	308
14	26	45	58	86	172	266	272
15	26	45	58	86	172	266	266
16	26	45	58	86	172	266	266
17	26	45	58	86	172	266	266
18	26	45	58	86	172	266	266
19	26	45	58	86	172	266	266
20	26	45	58	86	172	266	266
21	26	45	58	86	172	266	266
22	26	45	58	86	172	266	266
23	26	45	60	86	172	266	266
24	26	45	62	85	172	266	266
25	25	44	65	85	171	265	265
26	25	44	67	85	171	265	265
27	25	44	70	85	171	265	265
28	24	43	72	84	170	264	264
29	24	43	75	84	170	264	264
30	24	43	77	83	170	264	264

3.26 Ringgit

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	25	37	43	65	183	310	3 293
2	26	39	45	67	185	357	2 455
3	27	41	49	73	181	376	1 853
4	28	43	53	78	180	378	1 430
5	30	45	57	80	180	370	1 132
6	32	48	59	84	181	356	917
7	34	51	62	86	181	340	757
8	34	52	63	89	181	322	635
9	35	53	65	92	181	304	540
10	35	54	67	94	182	286	465
11	36	55	68	96	182	276	403
12	36	55	68	96	182	276	353
13	36	55	68	96	182	276	310
14	36	55	68	96	182	276	276
15	36	55	68	96	182	276	276
16	36	55	67	96	182	276	276
17	36	55	67	96	182	276	276
18	36	55	67	96	182	276	276
19	36	55	68	96	182	276	276
20	36	55	68	96	182	276	276
21	36	55	68	96	182	276	276
22	36	55	68	96	182	276	276
23	36	55	68	96	182	276	276
24	36	55	67	95	182	276	276
25	35	54	67	95	181	275	275
26	35	54	68	94	181	275	275
27	34	53	70	94	180	274	274
28	34	53	73	93	180	274	274
29	33	52	75	93	179	273	273
30	32	51	78	92	178	272	272

3.27 Russian rouble

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	121	133	140	161	279	375	3 577
2	120	132	139	160	278	384	2 661
3	119	132	140	164	272	402	2 001
4	118	132	142	167	269	403	1 540
5	118	133	145	168	268	394	1 215
6	118	134	146	170	267	379	982
7	119	136	147	171	266	361	809
8	118	136	147	173	265	359	678
9	117	136	147	175	264	358	576
10	117	136	149	176	264	358	494
11	117	136	148	176	263	357	428
12	116	135	147	175	262	356	374
13	114	134	146	174	261	355	355
14	113	132	145	173	259	353	353
15	111	130	143	171	257	351	351
16	109	128	141	169	255	349	349
17	107	126	138	166	253	347	347
18	104	124	136	164	251	345	345
19	102	122	134	162	249	343	343
20	100	119	132	160	246	340	340
21	98	117	130	158	244	338	338
22	96	115	128	156	242	336	336
23	94	113	125	154	240	334	334
24	92	111	123	151	238	332	332
25	89	108	121	149	235	329	329
26	87	106	119	147	233	327	327
27	85	104	117	145	231	325	325
28	83	102	115	143	229	323	323
29	81	100	113	141	227	321	321
30	79	98	111	139	225	319	319

3.28 Singapore dollar

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	0	8	14	36	154	304	3 215
2	0	10	16	38	156	349	2 394
3	1	11	20	44	152	367	1 806
4	1	13	24	49	151	369	1 394
5	1	16	28	51	151	361	1 103
6	3	19	30	55	152	347	893
7	5	22	33	57	152	331	737
8	5	23	34	60	152	314	618
9	5	24	35	63	152	296	526
10	5	24	37	64	152	278	452
11	5	24	37	65	152	261	392
12	5	24	37	65	151	245	342
13	5	24	37	65	151	245	301
14	5	24	37	65	151	245	266
15	6	24	40	64	151	245	245
16	6	23	41	64	150	244	244
17	6	23	44	64	150	244	244
18	7	23	47	64	150	244	244
19	7	23	49	64	150	244	244
20	7	24	51	65	151	245	245
21	7	24	54	65	151	245	245
22	8	25	56	65	152	246	246
23	8	25	58	66	152	246	246
24	9	25	61	66	152	246	246
25	9	25	63	68	152	246	246
26	9	25	66	70	152	246	246
27	10	25	68	72	152	246	246
28	10	25	71	73	152	246	246
29	11	25	73	75	152	247	247
30	11	25	76	77	152	247	247

3.29 South Korean won

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	31	43	50	71	189	309	3 272
2	32	44	50	72	190	355	2 435
3	30	43	52	76	184	372	1 833
4	29	43	54	78	180	373	1 412
5	29	44	56	79	179	364	1 115
6	32	48	59	84	180	350	902
7	30	47	58	82	177	333	744
8	33	51	62	88	180	316	623
9	32	51	63	90	179	298	530
10	28	46	59	87	174	280	455
11	23	42	55	83	170	264	394
12	20	39	52	80	166	260	344
13	18	37	50	78	164	258	303
14	16	35	48	76	162	256	267
15	15	34	46	74	161	255	255
16	13	32	45	73	159	253	253
17	12	31	44	72	158	252	252
18	12	31	47	71	158	252	252
19	11	30	49	71	157	251	251
20	11	30	51	71	157	251	251
21	11	30	54	71	157	251	251
22	11	30	56	71	157	251	251
23	11	30	58	71	157	251	251
24	11	30	61	71	157	251	251
25	11	30	63	71	157	251	251
26	11	30	66	71	157	251	251
27	11	30	68	72	157	251	251
28	10	30	71	73	157	251	251
29	11	29	73	75	156	250	250
30	11	29	76	77	156	250	250

3.30 Turkish lira

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	201	213	219	241	359	455	4 208
2	197	209	216	237	355	451	3 149
3	192	205	213	237	345	470	2 377
4	187	201	212	236	338	472	1 831
5	183	198	210	233	333	462	1 445
6	180	196	207	232	329	444	1 166
7	177	194	205	229	324	424	960
8	173	190	202	227	320	414	802
9	169	187	199	226	316	410	680
10	165	184	196	224	311	405	582
11	161	180	193	221	307	401	503
12	157	176	189	217	303	397	438
13	153	172	185	213	299	393	393
14	149	168	181	209	295	389	389
15	146	165	177	205	292	386	386
16	142	161	174	202	288	382	382
17	139	158	171	199	285	379	379
18	136	155	167	196	282	376	376
19	133	152	164	193	279	373	373
20	130	149	162	190	276	370	370
21	127	146	159	187	273	367	367
22	124	143	156	184	270	365	365
23	122	141	153	181	268	362	362
24	119	138	151	179	265	359	359
25	116	135	148	176	262	356	356
26	114	133	145	174	260	354	354
27	111	130	143	171	257	351	351
28	109	128	140	169	255	349	349
29	106	126	138	166	253	347	347
30	104	123	136	164	250	344	344

3.31 US dollar

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	0	14	26	51	170	303	3 208
2	0	14	26	51	170	348	2 387
3	1	17	28	56	166	366	1 800
4	1	20	31	61	165	367	1 389
5	3	23	36	66	166	359	1 099
6	5	27	39	68	167	346	889
7	8	31	42	71	167	330	734
8	10	34	45	74	167	313	616
9	12	37	49	76	167	295	524
10	13	39	51	77	167	277	450
11	14	40	52	78	167	262	390
12	15	42	54	79	167	261	341
13	16	43	54	80	167	261	300
14	16	44	55	80	167	261	265
15	16	44	55	80	167	261	261
16	16	44	55	80	167	261	261
17	16	44	55	80	167	261	261
18	16	44	55	80	167	261	261
19	16	44	55	80	167	261	261
20	16	44	55	80	167	261	261
21	16	44	55	80	168	262	262
22	16	44	56	80	168	262	262
23	16	44	58	80	168	262	262
24	16	44	61	80	168	262	262
25	16	44	63	80	167	261	261
26	16	44	66	80	167	261	261
27	16	44	68	80	167	261	261
28	16	44	71	80	167	261	261
29	16	44	73	80	166	260	260
30	16	44	75	80	166	260	260

3.32 Yen

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	0	0	3	14	132	302	3 199
2	0	1	6	14	131	347	2 374
3	1	1	9	17	124	363	1 784
4	1	3	11	20	121	363	1 373
5	1	4	14	22	120	354	1 084
6	2	4	16	25	120	341	877
7	2	6	19	27	119	324	723
8	2	6	22	30	119	307	606
9	3	7	24	33	119	289	515
10	4	8	26	35	119	272	442
11	4	9	29	37	119	255	383
12	4	10	31	39	119	239	335
13	4	10	34	41	119	224	295
14	4	12	36	43	120	214	261
15	6	12	38	45	120	214	232
16	6	13	41	48	120	214	214
17	6	14	43	50	121	215	215
18	6	15	45	52	123	215	215
19	7	15	48	54	125	215	215
20	7	17	50	56	127	216	216
21	7	17	53	58	128	217	217
22	8	18	55	60	130	217	217
23	8	18	57	62	132	217	217
24	8	20	59	64	133	217	217
25	9	20	62	66	134	217	217
26	9	21	64	68	137	217	217
27	10	23	67	70	138	217	217
28	10	23	69	71	138	217	217
29	10	24	72	73	140	217	217
30	11	25	74	75	141	217	217

ANNEX III

Volatility adjustment to the relevant risk-free interest rate term structure

Currency	National insurance market	Volatility adjustment (in bps)
Euro	Austria	3
Euro	Belgium	3
Euro	Cyprus	3
Euro	Estonia	3
Euro	Finland	3
Euro	France	3
Euro	Germany	3
Euro	Greece	3
Euro	Ireland	3
Euro	Italy	3
Euro	Latvia	3
Euro	Lithuania	3
Euro	Luxembourg	3
Euro	Malta	3
Euro	Netherlands	3
Euro	Portugal	3
Euro	Slovakia	3
Euro	Slovenia	3
Euro	Spain	3
Czech koruna	Czech Republic	14
Danish krone	Denmark	55
Forint	Hungary	4
Krona	Sweden	10
Kuna	Croatia	0
Lev	Bulgaria	- 7
Pound sterling	United Kingdom	5
Romanian leu	Romania	1
Zloty	Poland	5
Króna	Iceland	- 6
Norwegian krone	Norway	33
Swiss franc	Liechtenstein	8
Swiss franc	Switzerland	8
Australian dollar	Australia	8

Canadian dollar	Canada	38
Renminbi-yuan	China	36
Hong Kong dollar	Hong Kong	2
US dollar	United States	23
Yen	Japan	6

DECISIONS

COUNCIL DECISION (CFSP) 2021/1965

of 11 November 2021

amending Decision (CFSP) 2017/2074 concerning restrictive measures in view of the situation in Venezuela

THE COUNCIL OF THE EUROPEAN UNION,

Having regard to the Treaty on European Union, and in particular Article 29 thereof,

Having regard to the proposal from the High Representative of the Union for Foreign Affairs and Security Policy,

Whereas:

- (1) On 13 November 2017, the Council adopted Decision (CFSP) 2017/2074 ⁽¹⁾ concerning restrictive measures in view of the situation in Venezuela.
- (2) On 12 November 2020, the Council, considering the ongoing political, economic, social and humanitarian crisis in Venezuela and the persistent actions undermining democracy, the rule of law and respect for human rights, adopted Decision (CFSP) 2020/1700 ⁽²⁾, which renewed the restrictive measures in place until 14 November 2021, including all designations.
- (3) On 22 February 2021, in view of the continuing grave situation in Venezuela, the Council adopted Decision (CFSP) 2021/276 ⁽³⁾, which designated 19 persons.
- (4) The Council has reviewed the restrictive measures in place in accordance with Article 13 of Decision (CFSP) 2017/2074. Based on that review, the restrictive measures, including all designations, should be renewed until 14 November 2022, and the statement of reasons for 26 persons should be updated.
- (5) These measures do not affect the general population and can be reversed in light of progress made towards the restoration of democracy, the rule of law and respect for human rights in Venezuela.
- (6) Decision (CFSP) 2017/2074 should therefore be amended accordingly,

HAS ADOPTED THIS DECISION:

Article 1

Decision (CFSP) 2017/2074 is amended as follows:

- (1) the first paragraph of Article 13 is replaced by the following:

‘This Decision shall apply until 14 November 2022.’;

- (2) Annex I is amended as set out in the Annex to this Decision.

⁽¹⁾ Council Decision (CFSP) 2017/2074 of 13 November 2017 concerning restrictive measures in view of the situation in Venezuela (OJ L 295, 14.11.2017, p. 60).

⁽²⁾ Council Decision (CFSP) 2020/1700 of 12 November 2020 amending Decision (CFSP) 2017/2074 concerning restrictive measures in view of the situation in Venezuela (OJ L 381, 13.11.2020, p. 24).

⁽³⁾ Council Decision (CFSP) 2021/276 of 22 February 2021 amending Decision (CFSP) 2017/2074 concerning restrictive measures in view of the situation in Venezuela (OJ L 60I, 22.2.2021, p. 9).

Article 2

This Decision shall enter into force on the date following that of its publication in the *Official Journal of the European Union*.

Done at Brussels, 11 November 2021.

For the Council
The President
Z. POČIVALŠEK

In Annex I to Decision (CFSP) 2017/2074, entries 1, 4, 7, 10, 12, 18, 20, 25, 27, 28, 29, 34, 35, 36, 37, 41, 42, 43, 44, 45, 46, 47, 48, 51, 53 and 55 are replaced by the following:

	Name	Identifying information	Reasons	Date of listing
'1.	Néstor Luis REVEROL TORRES	Date of birth: 28 October 1964 Gender: male	Minister for Electrical Energy since October 2020, Vice-President of Public Works and Services and Executive Secretary of the Electrical General Staff since April 2019. Minister for Interior, Justice and Peace from 2016 until October 2020. General in Chief of the Bolivarian National Guard since August 2020. Responsible for serious human rights violations, including the torture of (political) prisoners, and the repression of the democratic opposition in Venezuela, including the prohibition and repression of political demonstrations, committed by security forces under his command.	22.1.2018
4.	Antonio José BENAVIDES TORRES	Date of birth: 13 June 1961 Gender: male	Member of the non-democratically elected National Assembly. Chief of the Capital District (Distrito Capital) Government until January 2018. General Commander of the Bolivarian National Guard until 21 June 2017. Involved in the repression of civil society and democratic opposition in Venezuela, and responsible for serious human rights violations committed by the Bolivarian National Guard under his command. His actions and policies as General Commander of the Bolivarian National Guard, including the Bolivarian National Guard taking the lead in the policing of civilian demonstrations and publicly advocating that military courts should have jurisdiction over civilians, have undermined the rule of law in Venezuela.	22.1.2018
7.	Diosdado CABELLO RONDÓN	Date of birth: 15 April 1963 Gender: male	Member of the non-democratically elected National Assembly, former President of the Constituent Assembly and First Vice-President of the United Socialist Party of Venezuela (PSUV). Involved in undermining democracy and the rule of law in Venezuela, including by using the media to publicly attack and threaten political opposition, other media and civil society.	22.1.2018
10.	Jesús Rafael SUÁREZ CHOURIO	Date of birth: 19 July 1962 Gender: male	President of the Defence and Security Committee of the non-democratically elected National Assembly since January 2021. Former Chief of the General Staff of the Commander-in-Chief of the Armed Forces (between July 2019 and September 2020). Former Commander in Chief of the Venezuelan Bolivarian National Army (until July 2019). Former General Commander of the Venezuelan Bolivarian National Army and former Commander of Venezuela's Comprehensive Defence Region of the Central Zone (REDI Central). Responsible for serious human rights violations by forces under his command during his tenure as General Commander of the Venezuelan Bolivarian National Army, including the use of excessive force and the mistreatment of detainees. He has targeted the democratic opposition and supported the use of military courts to try civilian protestors.	25.6.2018

	Name	Identifying information	Reasons	Date of listing
12.	Delcy Eloina RODRÍGUEZ GÓMEZ	Date of birth: 18 May 1969 Gender: female	Vice-President of Venezuela, Minister of the Economy, Finances and Trade. Former President of the illegitimate Constituent Assembly and former member of the Presidential Commission for the illegitimate National Constituent Assembly. Her actions in the Presidential Commission and then as President of the illegitimate Constituent Assembly have undermined democracy and the rule of law in Venezuela, including usurping the powers of the National Assembly and using them to target the opposition and to prevent them from taking part in the political process.	25.6.2018
18.	Xavier Antonio MORENO REYES	Gender: male	Secretary-General of the National Electoral Council (CNE) from 2009 until June 2020. In that role, Moreno Reyes facilitated, legitimised and gave credibility to CNE decisions, since the Secretary-General of the CNE has a role in agenda-setting and formalising decisions. Moreno Reyes remained Secretary-General of CNE while democracy was severely undermined and the independent role of the CNE within the electoral process was compromised. He is therefore responsible for undermining democracy in Venezuela, including facilitating the establishment of the illegitimate Constituent Assembly and the manipulation of the electoral process.	25.6.2018
20.	Rafael Ramón BLANCO MARRERO	Date of birth: 28 February 1968 ID number: V-6250588 Gender: male	Division General of the Venezuelan Bolivarian National Army since 5 July 2019. Former deputy Director of the Directorate-General of Military Counter-Intelligence (Dirección General de Contrainteligencia Militar (DGCIM)). Responsible for serious human rights violations, including torture, the use of excessive force and the mistreatment of detainees in DGCIM facilities, that were committed by DGCIM officials under his command. Linked to the death of Captain Acosta.	27.9.2019
25.	Hannover Esteban GUERRERO MIJARES	Date of birth: 14 January 1971 Gender: male	Second Commander and Chief of Staff of the 35th Military Police Brigade since August 2020. Head of Investigations at the Directorate-General of Military Counter-Intelligence (Dirección General de Contrainteligencia Militar (DGCIM)) from at least April 2019 to August 2019. As Head of Investigations, he supervised the DGCIM facility in Boleita. Responsible for serious human rights violations, including torture, the use of excessive force and the ill-treatment of detainees committed by himself and by officials under his command, particularly in Boleita. Linked to the death of Captain Acosta.	27.9.2019
27.	Gladys DEL VALLE REQUENA	Date of birth: 9 November 1952 Place of birth: Puerto Santo, Sucre, Venezuela ID number: V-4114842 Gender: female	Member of the non-democratically elected National Assembly and former member and the Second Vice-President of the non-recognised National Constituent Assembly (ANC). In her leading role in the non-recognised ANC, she has undermined democracy and the rule of law in Venezuela including by signing the decree that stripped the president of the National Assembly of Venezuela, Juan Guaidó, of his parliamentary immunity.	29.6.2020

	Name	Identifying information	Reasons	Date of listing
28.	Tania Valentina DÍAZ GONZÁLEZ	Date of birth: 18 June 1963 Place of birth: Caracas, Distrito Capital, Venezuela ID number: V-6432672 Gender: female	Member of the non-democratically elected National Assembly and former First Vice-President of the non-recognised National Constituent Assembly (ANC). In her leading role in the non-recognised ANC she has undermined democracy and the rule of law in Venezuela, including by signing the decree that stripped the president of the National Assembly of Venezuela, Juan Guaidó, of his parliamentary immunity.	29.6.2020
29.	Elvis Eduardo HIDROBO AMOROSO	Date of birth: 4 August 1963 Place of birth: Caracas, Distrito Capital, Venezuela ID number: V-7659695 Gender: male	Comptroller General, since 23 October 2018, and former First and Second Vice-President of the non-recognised National Constituent Assembly (ANC). His actions have undermined democracy and the rule of law in Venezuela, including by banning opposition members from holding public office for 15 years and leading the non-recognised ANC, signing the 'law against hatred', justifying the removal of a legally-elected opposition governor and banning Juan Guaidó from running for any public office.	29.6.2020
34.	Luis Eduardo PARRA RIVERO	Date of birth: 7 July 1978 ID number: V-14211633 Gender: male	Member of the non-democratically elected National Assembly. As a member of the National Assembly elected in 2015, he staged his election as President of the National Assembly on 5 January 2020, thereby undermining democracy and the rule of law in Venezuela. The election took place while entry of several parliamentarians to the premises of the National Assembly was blocked by military police, and without a quorum being reached. Therefore, opposition members had to organise themselves outside of the premises of the National Assembly to re-elect Juan Guaidó as its President. Shortly after the staged election of Parra Rivero, supported by the regime's political party (PSUV), Parra Rivero was welcomed by Maduro and the non-recognised National Constituent Assembly (ANC).	29.6.2020
35.	Franklyn Leonardo DUARTE	Date of birth: 15 May 1977 ID number: V-3304045 Gender: male	Member of the non-democratically elected National Assembly. Former member and illegitimately elected first Vice-President of the National Assembly elected in 2015. As a member of the National Assembly elected in 2015, he staged his election as the first Vice-President of the National Assembly on 5 January 2020, thereby undermining democracy and the rule of law in Venezuela. The election took place while entry of several parliamentarians to the premises of the National Assembly was blocked by military police, and without a quorum being reached. Therefore, opposition members had to organise themselves outside of the premises of the National Assembly to re-elect Juan Guaidó as its President. Shortly after the staged election of Duarte, supported by the regime's political party (PSUV), the election of the Board of Directors of the National Assembly was welcomed by Maduro and the non-recognised National Constituent Assembly (ANC).	29.6.2020

	Name	Identifying information	Reasons	Date of listing
36.	José Gregorio NORIEGA FIGUEROA	Date of birth: 21 February 1969 ID number: V-8348784 Gender: male	Member of the non-democratically elected National Assembly. Former member and illegitimately elected second Vice-President of the National Assembly elected in 2015. Illegitimately appointed director of the ad-hoc board of the political party Voluntad Popular. As a member of the National Assembly elected in 2015, he staged his election as the second Vice-President of the National Assembly on 5 January 2020, thereby undermining democracy and the rule of law in Venezuela. The election took place while entry of several parliamentarians to the premises of the National Assembly was blocked by military police, and without a quorum being reached. Therefore, opposition members had to organise themselves outside of the premises of the National Assembly to re-elect Juan Guaidó as its President. Shortly after the staged election of Noriega, supported by the regime's political party (PSUV), the election of the Board of Directors of the National Assembly was welcomed by Maduro and the non-recognised National Constituent Assembly (ANC). In July 2020, Noriega, helped by the Venezuelan Supreme Court of Justice (Tribunal Supremo de Justicia (TSJ)), illegitimately took over the leadership of the political party Voluntad Popular, thereby further undermining democracy in Venezuela.	29.6.2020
37.	Remigio CEBALLOS ICHASO	Date of birth: 1 May 1963 ID-number: V-6557495 Gender: male	Former commander of the Operational and Strategic Command of the Bolivarian National Armed Forces of Venezuela (Comando Estratégico Operacional Fuerzas Armadas Nacionales Bolivarianas (CEOFANB)), the highest organ in the Venezuelan Armed Forces (June 2017–July 2021). CEOFANB controls the Bolivarian National Armed Forces (FANB) and the Bolivarian National Guard. CEOFANB is also responsible for coordinating FANB interventions in demonstrations. In his position as commander of CEOFANB, he was responsible for serious human rights violations, including the use of excessive force and inhuman and degrading treatment by officials of the FANB and by subordinate forces under his command, including the Bolivarian National Guard. Various sources, including the Independent International Fact-Finding Mission on the Bolivarian Republic of Venezuela, attribute human rights violations to FANB and the Bolivarian National Guard.	22.2.2021
41.	Luis Fernando DAMIANI BUSTILLOS	Date of birth: 27 April 1946 Gender: male	Judge of the Constitutional Chamber of the Supreme Court (Tribunal Supremo de Justicia (TSJ)). As a member of the Constitutional Chamber of the Supreme Court, he is responsible for actions, statements and rulings that have usurped the constitutional powers of the National Assembly and undermined the opposition's electoral rights including the unilateral appointment by the Supreme Court of the National Electoral Council (Consejo Nacional Electoral (CNE)) in June 2020 and the suspension and unilateral replacement of the leadership of three of the main democratic opposition parties in June and July 2020, as well as the extension of the ruling on Acción Democrática for one more year in May 2021. His actions have therefore undermined democracy and the rule of law in Venezuela, and he has supported and facilitated the undermining of democracy and the rule of law by the executive branch.	22.2.2021

	Name	Identifying information	Reasons	Date of listing
42.	Lourdes Benicia SUÁREZ ANDERSON	Date of birth: 7 March 1965 Gender: female	President of the Constitutional Chamber and first Vice-president of the Supreme Court since 5 February 2021. Judge of the Constitutional Chamber of the Supreme Court (Tribunal Supremo de Justicia (TSJ)) since December 2005. As a member of the Constitutional Chamber of the Supreme Court, she is responsible for actions, statements and rulings that have usurped the constitutional powers of the National Assembly and undermined the opposition's electoral rights including the unilateral appointment by the Supreme Court of the National Electoral Council (Consejo Nacional Electoral (CNE)) in June 2020 and the suspension and unilateral replacement of the leadership of three of the main democratic opposition parties in June and July 2020, as well as the extension of the ruling on Acción Democrática for one more year in May 2021. Her actions have therefore undermined democracy and the rule of law in Venezuela, and she has supported and facilitated the undermining of democracy and the rule of law by the executive branch.	22.2.2021
43.	Calixto Antonio ORTEGA RÍOS	Date of birth: 12 October 1950 Gender: male	Judge of the Constitutional Chamber of the Supreme Court (Tribunal Supremo de Justicia (TSJ)). As a member of the Constitutional Chamber of the Supreme Court, he is responsible for actions, statements and rulings that have usurped the constitutional powers of the National Assembly and undermined the opposition's electoral rights including the unilateral appointment by the Supreme Court of the National Electoral Council (Consejo Nacional Electoral (CNE)) in June 2020 and the suspension and unilateral replacement of the leadership of three of the main democratic opposition parties in June and July 2020, as well as the extension of the ruling on Acción Democrática for one more year in May 2021. His actions have therefore undermined democracy and the rule of law in Venezuela, and he has supported and facilitated the undermining of democracy and the rule of law by the executive branch.	22.2.2021
44.	René Alberto DEGRAVES ALMARZA	Gender: male	Judge of the Constitutional Chamber of the Supreme Court (Tribunal Supremo de Justicia (TSJ)). As a member of the Constitutional Chamber of the Supreme Court, he is responsible for actions, statements and rulings that have usurped the constitutional powers of the National Assembly and undermined the opposition's electoral rights including the unilateral appointment by the Supreme Court of the National Electoral Council (Consejo Nacional Electoral (CNE)) in June 2020 and the suspension and unilateral replacement of the leadership of three of the main democratic opposition parties in June and July 2020, as well as the extension of the ruling on Acción Democrática for one more year in May 2021. His actions have therefore undermined democracy and the rule of law in Venezuela, and he has supported and facilitated the undermining of democracy and the rule of law by the executive branch.	22.2.2021

	Name	Identifying information	Reasons	Date of listing
45.	Arcadio DELGADO ROSALES	Date of birth: 23 September 1954 Gender: male	Judge and Vice-President of the Constitutional Chamber of the Supreme Court (Tribunal Supremo de Justicia (TSJ)). As a member of the Constitutional Chamber of the Supreme Court, he is responsible for actions, statements and rulings that have usurped the constitutional powers of the National Assembly and undermined the opposition's electoral rights including the unilateral appointment by the Supreme Court of the National Electoral Council (Consejo Nacional Electoral (CNE)) in June 2020 and the suspension and unilateral replacement of the leadership of three of the main democratic opposition parties in June and July 2020, as well as the extension of the ruling on Acción Democrática for one more year in May 2021. His actions have therefore undermined democracy and the rule of law in Venezuela, and he has supported and facilitated the undermining of democracy and the rule of law by the executive branch.	22.2.2021
46.	Carmen Auxiliadora ZULETA DE MERCHÁN	Date of birth: 13 December 1947 Gender: female	Judge of the Constitutional Chamber of the Supreme Court (Tribunal Supremo de Justicia (TSJ)). As a member of the Constitutional Chamber of the Supreme Court, she is responsible for actions, statements and rulings that have usurped the constitutional powers of the National Assembly and undermined the opposition's electoral rights including the unilateral appointment by the Supreme Court of the National Electoral Council (Consejo Nacional Electoral (CNE)) in June 2020 and the suspension and unilateral replacement of the leadership of three of the main democratic opposition parties in June and July 2020, as well as the extension of the ruling on Acción Democrática for one more year in May 2021. Her actions have therefore undermined democracy and the rule of law in Venezuela, and she has supported and facilitated the undermining of democracy and the rule of law by the executive branch.	22.2.2021
47.	Indira Maira ALFONZO IZAGUIRRE	Date of birth: 29 April 1968 Place of birth: La Guaira (La Guaira State, Venezuela) ID-number: V-6978710 Gender: female	President of the Electoral Chamber of the Supreme Court (Tribunal Supremo de Justicia (TSJ)) since May 2021. Former chairwoman of the National Electoral Council (Consejo Nacional Electoral (CNE)), appointed on 13 June 2020. Former member of the Electoral Chamber and Plenary Chamber of the Supreme Court (TSJ), Second Vice-Chairwoman of the TSJ from 2015 until 24 February 2017, Vice-Chairwoman of the TSJ from 24 February 2017 until 12 June 2020. As member of the Electoral Chamber of the TSJ, Alfonzo Izaguirre is responsible for the actions taken against the then newly elected National Assembly in December 2015, resulting in the impossibility for the National Assembly to exert its legislative power. Moreover, she accepted her appointment as the chairwoman of the CNE in June 2020 by the TSJ although this prerogative belongs to the National Assembly. In that role she prepared and supervised the non-democratic elections of the National Assembly held on 6 December 2020 and participated in the change of 30 June 2020 to the electoral norms for those elections, without formally leaving the TSJ (temporary permit to integrate the CNE). After the renewal of the CNE in May 2021, she returned to the TSJ. Her actions have therefore undermined democracy and the rule of law in Venezuela.	22.2.2021

	Name	Identifying information	Reasons	Date of listing
48.	Leonardo Enrique MORALES POLEO	Gender: male	Former Vice-President of the National Electoral Council (Consejo Nacional Electoral (CNE)) and President of the Political Participation and Financing Commission (August 2020–May 2021). Morales Poleo was appointed Vice-President of the CNE and President of the Political Participation and Financing Commission on 7 August 2020 by the Supreme Court (Tribunal Supremo de Justicia (TSJ)) although this prerogative belongs to the National Assembly. Moreover, just prior to his appointment he served in the Advanced Progressive Party (Avanzada progresista). As member of the CNE, he fully took part in the supervision of the electoral process that led to the non-democratic elections of the National Assembly on 6 December 2020. His actions have therefore undermined democracy and the rule of law in Venezuela.	22.2.2021
51.	Carlos Ramón Enrique CARVALLO GUEVARA	ID-number: V-10132041 Gender: male	President of state enterprise Corporación Ecosocialista Ezequiel Zamora (CORPOEZ) since March 2021. Division General, and Deputy Director of the Directorate-General of Military Counter-Intelligence (Dirección General de Contrainteligencia Militar (DGCIM)) from 21 August 2020 until 11 March 2021. Successor of General Rafael Ramón Blanco Marrero. Previously, Carvallo Guevara served for the DGCIM in Los Andes region and held an upper rank position in the Bolivarian National Guard. Responsible for serious human rights violations in Venezuela committed by DGCIM officials under his command. In the recently published findings of the Independent International Fact-Finding Mission on the Bolivarian Republic of Venezuela, DGCIM is characterised as an institution directly responsible for carrying out severe human rights violations.	22.2.2021
53.	Carlos Enrique TERÁN HURTADO	ID-number: V-8042567 Gender: male	Brigadier General since 5 July 2019 and head of the Special Directorate of Criminal Investigation of the Directorate-General of Military Counter-Intelligence (Dirección General de Contrainteligencia Militar (DGCIM)) from 2019 until 2021. In previous functions, Brigadier General Terán Hurtado served as head of the police in Falcón state and head of DGCIM in Táchira state. Responsible for serious human rights violations, including cruel and inhumane treatment of detainees, committed by DGCIM officials under his command. In the detailed findings of the Independent International Fact-Finding Mission on the Bolivarian Republic of Venezuela, Brigadier General Terán Hurtado is specifically pointed out as one of the responsible actors, and is linked to the captain de la Sotta case.	22.2.2021
55.	Douglas Arnaldo RICO GONZÁLEZ	Date of birth: 28 September 1969 ID-number: V-6864238 Gender: male	Director of the Bureau for Scientific, Criminal, and Forensic Investigations (Cuerpo de Investigaciones Científicas, Penales y Criminalísticas (CICPC)) since 5 February 2016. Previously, he acted as CICPC deputy director. Responsible for serious human rights violations, by CICPC officials under his authority. The report of the Independent International Fact-Finding Mission on the Bolivarian Republic of Venezuela characterises CICPC as an institution that commits systematic human rights violations in Venezuela. CICPC is also involved in extra-judicial killings, according to the report of the United Nations High Commissioner for Human Rights released on 16 June 2021.	22.2.2021

COUNCIL DECISION (CFSP) 2021/1966**of 11 November 2021****amending Decision (CFSP) 2019/1894 concerning restrictive measures in view of Turkey's unauthorised drilling activities in the Eastern Mediterranean**

THE COUNCIL OF THE EUROPEAN UNION,

Having regard to the Treaty on European Union, and in particular Article 29 thereof,

Having regard to the proposal from the High Representative of the Union for Foreign Affairs and Security Policy,

Whereas:

- (1) On 11 November 2019, the Council adopted Decision (CFSP) 2019/1894 ⁽¹⁾ concerning restrictive measures in view of Turkey's unauthorised drilling activities in the Eastern Mediterranean.
- (2) The Council has reviewed the restrictive measures set out in Decision (CFSP) 2019/1894. Based on that review, those measures should be extended until 12 November 2022 and the entries in the list of natural and legal persons, entities or bodies set out in the Annex to that Decision should be updated.
- (3) Decision (CFSP) 2019/1894 should be amended accordingly,

HAS ADOPTED THIS DECISION:

Article 1

Decision (CFSP) 2019/1894 is amended as follows:

- (1) Article 8 is replaced by the following:

'Article 8

This Decision shall apply until 12 November 2022 and shall be kept under constant review. It shall be renewed or amended, as appropriate, if the Council deems that its objectives have not been met.;

- (2) The Annex is amended as set out in the Annex to this Decision.

Article 2

This Decision shall enter into force on the day following that of its publication in the *Official Journal of the European Union*.

Done at Brussels, 11 November 2021.

For the Council
The President
Z. POČIVALŠEK

⁽¹⁾ Council Decision (CFSP) 2019/1894 of 11 November 2019 concerning restrictive measures in view of Turkey's unauthorised drilling activities in the Eastern Mediterranean (OJ L 291, 12.11.2019, p. 47).

ANNEX

In the Annex to Decision (CFSP) 2019/1894, entries 1 and 2 are replaced by the following:

	Name	Identifying information	Reasons	Date of listing
'1.	Mehmet Ferruh AKALIN	Date of birth: 9.12.1960 Passport No or ID: 13571379758 Nationality: Turkish Gender: male	Mehmet Ferruh Akalın is Vice-President (Assistant General Manager) and member of the Board of Directors of the Turkish Petroleum Corporation (TPAO). He is the head of TPAO's Exploration Department. In his capacity as TPAO Vice-President and head of its Exploration Department, Mehmet Ferruh Akalın is responsible for planning, directing and implementing TPAO's offshore hydrocarbon exploration activities. Those include TPAO's drilling activities, which have not been authorised by the Republic of Cyprus, as set out below. Those unauthorised drilling activities were carried out by: (a) the TPAO drilling vessel Yavuz in the territorial sea of the Republic of Cyprus between July and September 2019; (b) the TPAO drilling vessel Yavuz in an area of the exclusive economic zone of the Republic of Cyprus notified by it to the United Nations and delimited in an agreement with Egypt, between October 2019 and January 2020; (c) the TPAO drilling vessel Yavuz in an area of the exclusive economic zone of the Republic of Cyprus notified by it to the United Nations and delimited in an agreement with Egypt, as well as an agreement with Israel, between January and April 2020; (d) the TPAO drilling vessel Yavuz in an area of the exclusive economic zone of the Republic of Cyprus notified by it to the United Nations and delimited in an agreement with Egypt, between April and October 2020; (e) the TPAO drilling vessel Fatih in an area of the exclusive economic zone of the Republic of Cyprus notified by it to the United Nations, in close proximity to its territorial sea, between November 2019 and January 2020; (f) the TPAO drilling vessel Fatih in a western area of the exclusive economic zone of the Republic of Cyprus notified by it to the United Nations, between May and November 2019.	27.2.2020

	Name	Identifying information	Reasons	Date of listing
2.	Ali Coscun NAMOGLU	Date of birth: 27.11.1956 Passport No or ID: 11096919534 Nationality: Turkish Gender: male	Ali Coscun Namoglu is the Deputy Director of the Exploration Department of the Turkish Petroleum Corporation (TPAO). In that capacity, Ali Coscun Namoglu is involved in planning, directing and implementing TPAO's offshore hydrocarbon exploration activities. Those include TPAO's drilling activities, which have not been authorised by Republic of Cyprus as set out below. Those unauthorised drilling activities were carried out by: (a) the TPAO drilling vessel Yavuz in the territorial sea of the Republic of Cyprus between July and September 2019; (b) the TPAO drilling vessel Yavuz in an area of the exclusive economic zone of the Republic of Cyprus notified by it to the United Nations and delimited in an agreement with Egypt, between October 2019 and January 2020; (c) the TPAO drilling vessel Yavuz in an area of the exclusive economic zone of the Republic of Cyprus notified by it to the United Nations and delimited in an agreement with Egypt, as well as an agreement with Israel, between January 2020 and April 2020; (d) the TPAO drilling vessel Yavuz in an area of the exclusive economic zone of the Republic of Cyprus notified by it to the United Nations and delimited in an agreement with Egypt, between April and October 2020; (e) the TPAO drilling vessel Fatih in an area of the exclusive economic zone of the Republic of Cyprus notified by it to the United Nations, in close proximity to its territorial sea, between November 2019 and January 2020; (f) the TPAO drilling vessel Fatih in a western area of the exclusive economic zone of the Republic of Cyprus notified by it to the United Nations, between May and November 2019.	27.2.2020'

COMMISSION IMPLEMENTING DECISION (EU) 2021/1967**of 11 November 2021****setting up a mandatory data repository and a mandatory digital information exchange mechanism in accordance with Directive 2002/49/EC of the European Parliament and of the Council****(Text with EEA relevance)**

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Directive 2002/49/EC of the European Parliament and of the Council of 25 June 2002 relating to the assessment and management of environmental noise ⁽¹⁾, and in particular Article 10(2) and point (3) of Annex VI thereof,

Whereas:

- (1) After the modifications introduced into Directive 2002/49/EC by the Regulation 2019/1010 of the European Parliament and of the Council ⁽²⁾ a mandatory data repository and a mandatory digital information exchange mechanism needs to be developed by the Commission for Member States to be able to share information on strategic noise maps and summaries of noise action plans.
- (2) An electronic noise data reporting mechanism was developed in 2007 to fulfil the reporting requirements of the Directive 2002/49/EC, namely the European Environment Agency's infrastructure for supporting and improving data and information flows ('Reportnet'). Reportnet has been updated and refined by the Commission, assisted by the European Environment Agency, in cooperation with the Member States. It should be part of the European Spatial Data Infrastructure that will enable the sharing of environmental spatial information among public sector organisations, facilitate public access to spatial information across Europe and assist in policy-making across boundaries. It applies to all spatial data under the scope of Directive 2007/2/EC of the European Parliament and of the Council ⁽³⁾, that sets requirements for reporting and data-sharing between public authorities by means of an appropriate infrastructure. Reportnet has therefore been further developed to fulfil such requirements as well.
- (3) A digital information exchange mechanism needs a common language so that data can be managed and interpreted by the data repository. Accordingly, the data that is transferred to or linked with the data repository should fulfil very specific requirements regarding its format. Therefore, as an integral part of the development of the digital information exchange mechanism, the annex to this Decision specifies the format for the data to be communicated to the Commission through the mandatory data repository as referred to in Article 10(2) of Directive 2002/49/EC.
- (4) The introduction of the new mandatory digital information exchange mechanism requires the competent authorities of the Member States to align their data and infrastructure to the new technical requirements. It is therefore necessary to allow Member States some time for such technical alignment. Consequently, the application of this Decision should be deferred to 1 January 2022.
- (5) The measures provided for in this Decision are in accordance with the opinion of the Committee, established by Article 13(2) of Directive 2002/49/EC,

⁽¹⁾ OJ L 189, 18.7.2002, p. 12.

⁽²⁾ Regulation (EU) 2019/1010 of the European Parliament and of the Council of 5 June 2019 on the alignment of reporting obligations in the field of legislation related to the environment, and amending Regulations (EC) No 166/2006 and (EU) No 995/2010 of the European Parliament and of the Council, Directives 2002/49/EC, 2004/35/EC, 2007/2/EC, 2009/147/EC and 2010/63/EU of the European Parliament and of the Council, Council Regulations (EC) No 338/97 and (EC) No 2173/2005, and Council Directive 86/278/EEC (OJ L 170, 25.6.2019, p. 115).

⁽³⁾ Directive 2007/2/EC of the European Parliament and of the Council of 14 March 2007 establishing an Infrastructure for Spatial Information in the European Community (INSPIRE) (OJ L 108, 25.4.2007, p. 1).

HAS ADOPTED THIS DECISION:

Article 1

Member States shall use the European Environment Agency's e-Reporting platform for reporting environmental and climate data ('Reportnet') as mandatory data repository for the submission of the information referred to in Directive 2002/49/EC and according to the Annex to this Decision.

Article 2

The Reportnet shall be used as the mandatory digital information exchange mechanism referred to in Directive 2002/49/EC.

Article 3

This Decision shall enter into force on the twentieth day following that of its publication in the *Official Journal of the European Union*.

It shall apply from 1 January 2022.

Done at Brussels, 11 November 2021.

For the Commission
The President
Ursula VON DER LEYEN

ANNEX

Section 1

Reporting of agglomerations, major airports, major railways and major roads**1.1. Agglomerations**

Data to be reported	Content	Mandatory or optional nature of the reporting
1.1.1. Agglomeration identifier	Unique identifier assigned to each agglomeration.	Mandatory.
1.1.2. Agglomeration name	Name of agglomeration.	Mandatory.
1.1.3. Size	Area of coverage of the agglomeration.	Mandatory.
1.1.4. Number of inhabitants	Number of inhabitants living inside the boundary of the agglomeration.	Mandatory.
1.1.5. Existing noise sources in agglomeration	Name of the existing type of noise sources inside the agglomeration.	Mandatory.
1.1.6. inspireId	External object identifier of the spatial object (agglomeration).	Mandatory.
1.1.7. Geometry	Spatial extent of the agglomeration.	Mandatory.
1.1.8. Additional information as required by Commission Regulation (EU) No 1089/2010 ⁽¹⁾	Additional attributes such as Zone type, Specialized zone type, Environmental domain, Legal basis, Designation period, Competent authority, Life cycle information.	Mandatory.

1.2. Major airports

Data to be reported	Content	Mandatory or optional nature of the reporting
1.2.1. Airport Name	Official name of the major airport.	Mandatory.
1.2.2. ICAO code	Unique international code of airport defined by the International Civil Aviation Organization.	Mandatory.
1.2.3. Annual traffic flow	Number of take offs and landings per year at the major airport, excluding those purely for training purposes on light aircraft.	Mandatory.

⁽¹⁾ Commission Regulation (EU) No 1089/2010 of 23 November 2010 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards interoperability of spatial data sets and services (OJ L 323, 8.12.2010, p. 11).

1.2.4. Geometry	Geometry representing the location of the major airport. Point geometry.	Mandatory.
1.2.5. Link to reference dataset	Information about the dataset of the airport that follows the requirements of Directive 2007/2/EC to which the major airport could be linked.	Optional.
1.2.6. Link to reference object	Reference to the airport (spatial object) in the reference dataset of the airport that is provided in the link to the reference dataset.	Optional.

1.3. Major railways

Data to be reported	Content	Mandatory or optional nature of the reporting
1.3.1. Rail identifier	Unique identifier assigned to each major railway segment.	Mandatory.
1.3.2. Rail national code	Railway code (railway identification number) used within the Member State.	Optional.
1.3.3. Rail name	Railway name used within the Member State.	Optional.
1.3.4. Annual traffic flow	Number of train passages per year.	Mandatory.
1.3.5. Length	Length of the major railway segment, in metres.	Mandatory.
1.3.6. Link to reference dataset	Information about the dataset of the railway network that follows the requirements of Directive 2007/2/EC to which the major railway could be linked.	Optional.
1.3.7. Link to reference object	Reference to the railway (spatial object) in the reference dataset of the railway network that is provided in the link to the reference dataset.	Optional.
1.3.8. inspireId	External object identifier of the spatial object (major railway).	Mandatory.
1.3.9. Geometry	Geometry of the major railway.	Mandatory.
1.3.10. Additional information as required by Commission Regulation (EU) No 1089/2010	Additional attributes such as 'fictitious', network information, validity information and life cycle information.	Mandatory.

1.4. Major roads

Data to be reported	Content	Mandatory or optional nature of the reporting
1.4.1. Road identifier	Unique identifier assigned to each major road segment.	Mandatory.
1.4.2. Road national code	Road code used within the Member State.	Optional.
1.4.3. Road name	Official road name used within the Member State.	Optional.
1.4.4. EU road code	European road code used to reference the road.	Optional.
1.4.5. Annual traffic flow	Number of vehicle passages per year on the major road segment.	Mandatory.
1.4.6. Length	Actual length of the major road segment, in metres.	Mandatory.
1.4.7. Link to reference dataset	Information about the dataset of road network that follows the requirements of Directive 2007/2/EC to which the major road could be linked.	Optional.
1.4.8. Link to reference object	Reference to the road (spatial object) in the reference dataset of road network that is provided in the link to the reference dataset.	Optional.
1.4.9. inspireId	External object identifier of the spatial object (major road).	Mandatory.
1.4.10. Geometry	Geometry of major road.	Mandatory.
1.4.11. Additional information as required by Commission Regulation (EU) No 1089/2010	Additional attributes such as 'fictitious', network information, validity information and life cycle information.	Mandatory.

Section 2**Designated competent authorities and bodies responsible for implementing Directive 2002/49/EC****2.1. Competent authority general information**

Data to be reported	Content	Mandatory or optional nature of the reporting
2.1.1. Competent authority details	Name and address of a competent authority responsible for implementing Directive 2002/49/EC, including its unique identifier.	Mandatory.

2.2. Competent authority and responsibilities related to noise in agglomerations, reported for each agglomeration.

Data to be reported	Content	Mandatory or optional nature of the reporting
2.2.1. Competent authority identifier	Unique identifier of the competent authority.	Mandatory.
2.2.2. Agglomeration identifier	Unique identifier assigned to each agglomeration.	Mandatory.
2.2.3. Competent authority for noise source	Noise source in the agglomeration for which the competent authority is responsible.	Mandatory.
2.2.4. Competent authority role	Role of the competent authority with regard to the agglomeration.	Mandatory.

2.3. Competent authority and responsibilities related to noise from major airports.

Data to be reported	Content	Mandatory or optional nature of the reporting
2.3.1. Competent authority identifier	Unique identifier of the competent authority.	Mandatory.
2.3.2. ICAO code	Unique international code of airport defined by the International Civil Aviation Organization.	Mandatory.
2.3.3. Competent authority role	Role of the competent authority with regard to the major airport.	Mandatory.

2.4. Competent authority and responsibilities related to noise from major railways.

Data to be reported	Content	Mandatory or optional nature of the reporting
2.4.1. Competent authority identifier	Unique identifier of the competent authority.	Mandatory.
2.4.2. Competent authority role	Role of the competent authority with regard to the major railway.	Mandatory.
2.4.3. Reporting level	Reporting level in which the competent authority is responsible for major railways.	Mandatory.
2.4.4. Territorial unit code	Unique code corresponding to the common classification of territorial units for statistics that follows Regulation (EC) 1059/2003 of the European Parliament and of the Council ⁽²⁾ .	Mandatory if the reporting level is at any sub-national level.

⁽²⁾ Regulation (EC) No 1059/2003 of the European Parliament and of the Council of 26 May 2003 on the establishment of a common classification of territorial units for statistics (NUTS) (OJ L 154 21.6.2003, p. 1).

2.4.5. Rail identifier	Unique identifier assigned to each major railway segment.	Mandatory if the reporting level is a major railway segment. Optional if reporting level is country or any other sub-national level.
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2.5. Competent authority and responsibilities related to noise from major roads.

Data to be reported	Content	Mandatory or optional nature of the reporting
2.5.1. Competent authority identifier	Unique identifier of the competent authority.	Mandatory.
2.5.2. Competent authority role	Role of the competent authority with regard to the major road.	Mandatory.
2.5.3. Reporting level	Reporting level in which the competent authority is responsible for major roads.	Mandatory.
2.5.4. Territorial unit code	Unique code corresponding to the common classification of territorial units for statistics that follows Regulation (EC) No 1059/2003.	Mandatory if the reporting level is at any sub-national level
2.5.5. Road identifier	Unique identifier assigned to each major road segment.	Mandatory if the reporting level is a major road segment. Optional if reporting level is country or any other sub-national level.

2.6. Competent authority for delimiting quiet areas - inside agglomerations or in open country.

Note: for the information under 2.6. , if no quiet area is delimited, no information shall be reported.

Data to be reported	Content	Mandatory or optional nature of the reporting
2.6.1. Competent authority identifier	Unique identifier of the competent authority.	Mandatory.
2.6.2. Competent authority for quiet area	A quiet area type for which the competent authority is responsible.	Mandatory.
2.6.3. Quiet area identifier	Unique identifier of the quiet area.	Mandatory.

2.7. Territorial units for statistics reference information ^(*)

Data to be reported	Content	Mandatory or optional nature of the reporting
2.7.1. Title (NUTS)	Title of the reference dataset of territorial units for statistics (NUTS).	Mandatory if the reporting level of the competent authority for major roads/railways applies to any territorial units for statistics (NUTS).
2.7.2. Link (NUTS)	Link to the reference dataset of territorial units for statistics (NUTS).	Optional.
2.7.3. Title (LAU)	Title of the reference dataset of Local Administrative Units (LAU).	Mandatory if the reporting level of the competent authority for major roads/railways applies to any Local Administrative Units (LAU).
2.7.4. Link (LAU)	Link to the reference dataset of Local Administrative Units (LAU).	Optional.

Section 3**Noise limit values****3.1. Noise limit report**

Data to be reported	Content	Mandatory or optional nature of the reporting
3.1.1. Report identifier	Identifier of the noise limit values' report.	Mandatory.
3.1.2. Noise limit report	Noise limit report details.	Mandatory.

3.2. Noise limit values reported in noise limit report

Data to be reported	Content	Mandatory or optional nature of the reporting
3.2.1. Noise source	Noise source for which the noise limit is applicable.	Mandatory.
3.2.2. Limit value defined	Declaration on whether or not a limit value exists.	Mandatory.
3.2.3. Data to be reported for limit values in force or in preparation.		
3.2.3.1. Status	Status of the limit value: in force or in preparation.	Mandatory.
3.2.3.2. Area type	Destination of use of the area where the noise limit is applied.	Mandatory for residential area types where limits are in force or are under preparation. Optional for hospitals, schools and other areas.

^(*) Regulation (EC) No 1059/2003 of the European Parliament and of the Council of 26 May 2003 on the establishment of a common classification of territorial units for statistics (NUTS), OJ L 154, 21.06.2003 p. 1.

3.2.3.3. Noise indicator	Noise indicator of the limit value.	Mandatory for L_{den} and L_{night} . Optional for all other indicators.
3.2.3.4. Limit value	Noise level value in dB.	Mandatory if the noise limit is in force or in preparation.
3.2.3.5. Explanation	Further information on the noise limit values.	Optional.

Section 4

Strategic noise mapping**4.1. Strategic noise mapping – noise contours**

Note: Noise contour maps are mandatory for major roads, railways and air traffic inside and outside agglomerations. As long as noise contour maps for roads, railways, air traffic and industries inside agglomeration exist those shall also be reported together with the information below.

Data to be reported	Content	Mandatory or optional nature of the reporting.
4.1.1. Source	Noise source shown in the noise contour map.	Mandatory for major roads, major railways and major airports inside and outside agglomerations. Mandatory for roads, railways, air traffic and industries inside agglomeration if applicable.
4.1.2. Category of noise indicators and values in noise contour map.		
4.1.2.1. Category for major source	Identifies the different indicator values or range values of the noise contour map.	Mandatory for major roads, major railways and major airports inside and outside agglomerations. Mandatory are the 55 and 65 dB L_{den} contours. Other noise values or noise indicators are optional.
4.1.2.2. Category for agglomeration	Identifies the different indicator values or range values of the noise contour map.	Mandatory for roads, railways, airports and industries inside agglomeration if available. Mandatory are the 60, 65, 70, 75 dB L_{den} contours. Other noise values or noise indicators are optional.
4.1.3. Measure time	Calendar year for which the noise contour map has been calculated.	Mandatory.
4.1.4. Geometry	Geometry (location) of the noise contour maps.	Mandatory.
4.1.5. Additional information as required by Commission Regulation (EU) No 1089/2010	Additional attributes such as environmental health determinant type, validity information and life cycle information.	Mandatory.

4.2. Noise exposure data for agglomerations

Exposure data may be reported for a complete agglomeration or for Local Administrative Units² covering agglomeration.

Data to be reported	Content	Mandatory or optional nature of the reporting
4.2.1. Agglomeration identifier	Unique identifier assigned to each agglomeration.	Mandatory.
4.2.2. Noise source	Noise source of the exposed population values inside agglomeration.	Mandatory for each individual existing noise source in agglomeration. Optional for all sources in agglomeration combined.

4.2.3. Exposure values in an agglomeration specify all information on population exposure to be reported inside agglomerations according to the selected noise source.

4.2.3.1. Exposure type	Defines the characteristics of the dwellings' façade where noise exposure has been calculated.	Mandatory for most exposed façade. Optional for other exposure types.
4.2.3.2. Noise level	Defines the dB range value for L_{den} or L_{night} at which the number of people exposed has been calculated.	Mandatory values are: L_{den} : 55-59, 60-64, 65-69, 70-74, greater than 75 dB, and L_{night} : 50-54, 55-59, 60-64, 65-69, greater than 70 dB. Optional for other noise levels.
4.2.3.3. Exposed people	Number of people exposed to noise according to the selected <i>Noise source</i> , <i>Exposure type</i> and <i>Noise level</i> .	Mandatory.
4.2.3.4. Exposed hospitals	Number of hospitals exposed to noise according to the selected <i>Noise source</i> , <i>Exposure type</i> and <i>Noise level</i> .	Optional.
4.2.3.5. Exposed schools	Number of schools exposed to noise according to the selected <i>Noise source</i> , <i>Exposure type</i> and <i>Noise level</i> .	Optional.
4.2.3.6. Local administrative unit	Unique code corresponding to the common classification of territorial units for statistics that follows Regulation (EC) No 1059/2003.	Mandatory if exposure values in agglomeration are reported per Local Administrative Unit (LAU).
4.2.3.7. ICAO code	Unique international code of airport defined by the International Civil Aviation Organization.	Mandatory if exposure data is reported for a specific major airport inside agglomeration.
4.2.3.8. Description of all sources	Description of the noise sources considered for calculating exposure data.	Mandatory if exposure data is reported for all sources in agglomeration combined.

4.2.4. Computation and measurement method	Computation and measurement method being used to calculate the noise maps.	Mandatory.
4.2.5. Coverage criteria	Information on criteria used to select the roads and railways that are mapped in agglomerations.	Optional.
4.2.6. Exposure to noise calculation method	Information on the methods employed to calculate exposure to noise at the most exposed façade as described in Section 2.8 of Annex II to Directive 2002/49/EC.	Optional.
4.2.7. Reference link	Link to the published online information.	Optional.

4.3. Noise exposure data for major airports

Exposure data may be reported per major airport or per Local Administrative Units² affected by the noise from major airport.

Data to be reported	Content	Mandatory or optional nature of the reporting
4.3.1. ICAO code	Unique international code of airport defined by the International Civil Aviation Organization.	Mandatory.
4.3.2. Territorial unit code	Unique code corresponding to the common classification of territorial units for statistics that follows Regulation (EC) No 1059/2003.	Mandatory if exposure values related to major airports are reported per Local Administrative Unit (LAU).

4.3.3. Information on population exposure for major airports outside agglomerations

4.3.3.1. Exposure type	Defines the characteristics of the dwellings' façade where noise exposure is calculated.	Mandatory for most exposed façade outside agglomeration. Optional for other exposure types.
4.3.3.2. Noise level	Defines the dB range value for L_{den} or L_{night} at which the number of people exposed is calculated.	Mandatory for most exposed façade L_{den} : 55-59, 60-64, 65-69, 70-74, greater than 75 dB, and L_{night} : 50-54, 55-59, 60-64, 65-69, greater than 70 dB. Optional for other noise levels and/or exposure types.
4.3.3.3. Exposed people	Number of people exposed to noise according to the selected <i>Exposure type</i> and <i>Noise level</i> .	Mandatory.
4.3.3.4. Exposed area	Area exposed (in km ²) to the selected <i>Exposure type</i> and <i>Noise level</i> .	Optional.

4.3.3.5. Exposed dwellings	Number of dwellings exposed to noise according to <i>Exposure type</i> and <i>Noise level</i> .	Optional.
4.3.3.6. Exposed hospitals	Number of hospitals exposed to noise according to the selected <i>Exposure type</i> and <i>Noise level</i> .	Optional.
4.3.3.7. Exposed schools	Number of schools exposed to noise according to the selected <i>Exposure type</i> and <i>Noise level</i> .	Optional.

4.3.4. Information on population exposure for major airports including agglomerations

4.3.4.1. Exposure type	Defines the characteristics of the dwellings' façade where noise exposure is calculated.	Mandatory for most exposed façade including agglomerations.
4.3.4.2. Noise level	Defines the dB range value for L_{den} at which the number of people exposed is calculated.	Mandatory for L_{den} : higher than 55, 65 and 75 dB respectively. Optional for other noise levels.
4.3.4.3. Exposed people	Number of people exposed to noise according to the selected <i>Exposure type</i> and <i>Noise level</i> .	Mandatory.
4.3.4.4. Exposed area	Area exposed (in km ²) to the selected <i>Exposure type</i> and <i>Noise level</i> .	Mandatory.
4.3.4.5. Exposed dwellings	Number of dwellings exposed to noise according to <i>Exposure type</i> and <i>Noise level</i> .	Mandatory
4.3.4.6. Exposed hospitals	Number of hospitals exposed to noise according to the selected <i>Exposure type</i> and <i>Noise level</i> .	Optional.
4.3.4.7. Exposed schools	Number of schools exposed to noise according to the selected <i>Exposure type</i> and <i>Noise level</i> .	Optional.
4.3.5. Computation and measurement method	Computation and measurement method being used to calculate the noise maps.	Mandatory.
4.3.6. Exposure to noise calculation method	Information on the methods employed to calculate exposure to noise at the most exposed façade as described in Section 2.8 of Annex II to Directive 2002/49/EC.	Optional.
4.3.7. Reference link	Link to the published online information.	Optional.

4.4. Noise exposure data for major railways

Exposure data may be reported per territorial units for statistics or Local Administrative Units² affected by the noise from major railways.

Data to be reported	Content	Mandatory or optional nature of the reporting
4.4.1. Reporting level	Type of aggregation level for the data being reported, including national or sub-national level, or for all the railways in the country related to the exposure for major railways.	Mandatory.
4.4.2. Territorial unit code	Unique code corresponding to the common classification of territorial units for statistics that follows Regulation (EC) No 1059/2003.	Mandatory.
4.4.3. Rail identifier	Unique code corresponding to one or more railways comprised within the territorial unit code.	Optional.

4.4.4. Information on population exposure for major railways outside agglomerations

4.4.4.1. Exposure type	Defines the characteristics of the dwellings' façade where noise exposure is calculated.	Mandatory for most exposed façade outside agglomeration. Optional for other exposure types.
4.4.4.2. Noise level	Defines the dB range value for L_{den} or L_{night} at which the number of people exposed is calculated.	Mandatory for most exposed façade L_{den} : 55-59, 60-64, 65-69, 70-74, greater than 75 dB, and L_{night} : 50-54, 55-59, 60-64, 65-69, greater than 70 dB. Optional for other noise levels and/or exposure types.
4.4.4.3. Exposed people	Number of people exposed to noise according to the selected <i>Exposure type</i> and <i>Noise level</i> .	Mandatory.
4.4.4.4. Exposed area	Area exposed (in km ²) to the selected <i>Exposure type</i> and <i>Noise level</i> .	Optional.
4.4.4.5. Exposed dwellings	Number of dwellings exposed to noise according to <i>Exposure type</i> and <i>Noise level</i> .	Optional.
4.4.4.6. Exposed hospitals	Number of hospitals exposed to noise according to the selected <i>Exposure type</i> and <i>Noise level</i> .	Optional.
4.4.4.7. Exposed schools	Number of schools exposed to noise according to the selected <i>Exposure type</i> and <i>Noise level</i> .	Optional.

4.4.5. Information on population exposure for major railways including agglomerations

4.4.5.1. Exposure type	Defines the characteristics of the dwellings' façade where noise exposure is calculated.	Mandatory for most exposed façade including agglomerations.
4.4.5.2. Noise level	Defines the dB range value for L_{den} at which the number of people exposed is calculated.	Mandatory for L_{den} : higher than 55, 65 and 75 dB respectively. Optional for other noise levels.
4.4.5.3. Exposed people	Number of people exposed to noise according to the selected <i>Exposure type</i> and <i>Noise level</i> .	Mandatory.
4.4.5.4. Exposed area	Area exposed (in km ²) to the selected <i>Exposure type</i> and <i>Noise level</i> .	Mandatory.
4.4.5.5. Exposed dwellings	Number of dwellings exposed to noise according to <i>Exposure type</i> and <i>Noise level</i> .	Mandatory.
4.4.5.6. Exposed hospitals	Number of hospitals exposed to noise according to the selected <i>Exposure type</i> and <i>Noise level</i> .	Optional.
4.4.5.7. Exposed schools	Number of schools exposed to noise according to the selected <i>Exposure type</i> and <i>Noise level</i> .	Optional.
4.4.6. Computation and measurement method	Computation and measurement method being used to calculate the noise maps.	Mandatory.
4.4.7. Exposure to noise calculation method	Information on the methods employed to calculate exposure to noise at the most exposed façade as described in Section 2.8 of Annex II to Directive 2002/49/EC.	Optional.
4.4.8. Reference link	Link to the published online information.	Optional.

4.5. Noise exposure data for major roads

Exposure data may be reported per territorial units for statistics or Local Administrative Units² affected by the noise from major roads.

Data to be reported	Content	Mandatory or optional nature of the reporting
4.5.1. Reporting level	Type of aggregation level for the data being reported, including national or sub-national level, or for all the roads in the country related to the exposure for major roads.	Mandatory.

4.5.2. Territorial unit code	Unique code corresponding to the common classification of territorial units for statistics that follows Regulation (EC) No 1059/2003.	Mandatory.
4.5.3. Road identifier	Unique code corresponding to one or more roads comprised within the territorial unit code.	Optional.

4.5.4. Information on population exposure for major roads outside agglomerations.

4.5.4.1. Exposure type	Defines the characteristics of the dwellings' façade where noise exposure is calculated.	Mandatory for most exposed façade outside agglomeration. Optional for other exposure types.
4.5.4.2. Noise level	Defines the dB range value for L_{den} or L_{night} at which the number of people exposed is calculated.	Mandatory for most exposed façade L_{den} : 55-59, 60-64, 65-69, 70-74, greater than 75 dB, and L_{night} : 50-54, 55-59, 60-64, 65-69, greater than 70 dB. Optional for other noise levels and/or exposure types.
4.5.4.3. Exposed people	Number of people exposed to noise according to the selected <i>Exposure type</i> and <i>Noise level</i> .	Mandatory.
4.5.4.4. Exposed area	Area exposed (in km ²) to the selected <i>Exposure type</i> and <i>Noise level</i> .	Optional.
4.5.4.5. Exposed dwellings	Number of dwellings exposed to noise according to <i>Exposure type</i> and <i>Noise level</i> .	Optional.
4.5.4.6. Exposed hospitals	Number of hospitals exposed to noise according to the selected <i>Exposure type</i> and <i>Noise level</i> .	Optional.
4.5.4.7. Exposed schools	Number of schools exposed to noise according to the selected <i>Exposure type</i> and <i>Noise level</i> .	Optional.

4.5.5 Information on population exposure for major roads including agglomerations.

4.5.5.1. Exposure type	Defines the characteristics of the dwellings' façade where noise exposure is calculated.	Mandatory for most exposed façade including agglomerations.
4.5.5.2. Noise level	Defines the dB range value for L_{den} at which the number of people exposed is calculated.	Mandatory for L_{den} : higher than 55, 65 and 75 dB respectively. Optional for other noise levels.

4.5.5.3. Exposed people	Number of people exposed to noise according to the selected <i>Exposure type</i> and <i>Noise level</i> .	Mandatory.
4.5.5.4. Exposed area	Area exposed (in km ²) to the selected <i>Exposure type</i> and <i>Noise level</i> .	Mandatory.
4.5.5.5. Exposed dwellings	Number of dwellings exposed to noise according to <i>Exposure type</i> and <i>Noise level</i> .	Mandatory.
4.5.5.6. Exposed hospitals	Number of hospitals exposed to noise according to the selected <i>Exposure type</i> and <i>Noise level</i> .	Optional.
4.5.5.7. Exposed schools	Number of schools exposed to noise according to the selected <i>Exposure type</i> and <i>Noise level</i> .	Optional.
4.5.6. Computation and measurement method	Computation and measurement method being used to calculate the noise maps.	Mandatory.
4.5.7. Exposure to noise calculation method	Information on the methods employed to calculate exposure to noise at the most exposed façade as described in Section 2.8 of Annex II to Directive 2002/49/EC.	Optional.
4.5.8. Reference link	Link to the published online information.	Optional.

4.6. Territorial units for statistics reference information²

Data to be reported	Content	Mandatory or optional nature of the reporting
4.6.1. Title (NUTS)	Title of the reference dataset of territorial units for statistics (NUTS).	Mandatory if noise exposure data are prepared on the level of territorial units NUTS.
4.6.2. Link (NUTS)	Link to the reference dataset of territorial units for statistics (NUTS).	Optional.
4.6.3. Title (LAU)	Title of the reference dataset of Local Administrative Units (LAU).	Mandatory if noise exposure data are prepared on the level of Local Administrative Units (LAU).
4.6.4. Link (LAU)	Link to the reference dataset of Local Administrative Units (LAU).	Optional.

Section 5

Noise-control programmes**5.1. Noise-control programmes that have been carried out in the past and noise-measures in place in agglomerations**

Note: for the information under 5.1., if there was no noise-control programme in the past, no information shall be reported

Data to be reported	Content	Mandatory or optional nature of the reporting
5.1.1. Agglomeration identifier	Unique identifier assigned to each agglomeration.	Mandatory.
5.1.2. Noise-control programme identifier	Unique identifier assigned to each noise-control programme.	Mandatory.
5.1.3. Noise-control programme information	Details of the noise-control programme.	Mandatory.
5.1.4. Explanation	Further explanation besides the information contained in the noise-control programme report.	Optional.
5.1.5. Noise-control programme level	Type of aggregation level at which the noise-control programme is established such as national or sub-national level, or for all the agglomeration.	Mandatory.
5.1.6. Information on territorial unit of the noise-control programme (NUTS or LAU)		
5.1.6.1. Territorial unit code	Unique code (NUTS or LAU) corresponding to the common classification of territorial units for statistics that follows Regulation (EC) No 1059/2003.	Mandatory.
5.1.6.2. Territorial unit dataset information	Title and version of the territorial units for statistics dataset that follows Regulation (EC) No 1059/2003 (NUTS or LAU).	Mandatory.
5.1.6.3. Reference link	Link to Eurostat data set used for the noise data reporting.	Optional.

5.2. Noise-control programmes that have been carried out in the past and noise-measures in place in major airports

Note: for the information under 5.2., if there was no noise-control programme in the past, no information shall be reported

Data to be reported	Content	Mandatory or optional nature of the reporting
5.2.1. ICAO code	Unique international code of airport defined by the International Civil Aviation Organization.	Mandatory.

5.2.2. Noise-control programme identifier	Unique identifier assigned to each noise-control programme.	Mandatory.
5.2.3. Noise-control programme information	Details of the noise-control programme.	Mandatory.
5.2.4. Explanation	Further explanation besides the information contained in the noise-control programme report.	Optional.
5.2.5. Noise-control programme level	Type of aggregation level at which the noise-control programme is established, such as national or sub-national level, or for all the airports in the country.	Mandatory.

5.2.6. Information on territorial unit of the noise-control programme (NUTS or LAU)

5.2.6.1. Territorial unit code	Unique code (NUTS or LAU) corresponding to the common classification of territorial units for statistics that follows Regulation (EC) No 1059/2003.	Mandatory.
5.2.6.2. Territorial unit dataset information	Title and version of the territorial units for statistics dataset that follows Regulation (EC) No 1059/2003 (NUTS or LAU).	Mandatory.
5.2.6.3. Reference link	Link to Eurostat data set used for the noise data reporting.	Optional.

5.3. Noise-control programmes that have been carried out in the past and noise-measures in place in major railways

Note: for the information under 5.3., if there was no noise-control programme in the past, no information shall be reported

Data to be reported	Content	Mandatory or optional nature of the reporting
5.3.1. Rail identifier	Unique identifier assigned to each major railway segment.	Mandatory if the reporting level is a major railway segment. Optional if reporting level is country or any other sub-national level.
5.3.2. Noise-control programme identifier	Unique identifier assigned to each noise-control programme.	Mandatory.
5.3.3. Noise-control programme information	Details of the noise-control programme.	Mandatory.
5.3.4. Explanation	Further explanation besides the information contained in the noise-control programme report.	Optional.

5.3.5. Noise-control programme level	Type of aggregation level at which the noise-control programme is established, such as national or sub-national level, or for all the major railways in the country.	Mandatory.
5.3.6. Information on territorial unit of the noise-control programme (NUTS or LAU)		
5.3.6.1. Territorial unit code	Unique code (NUTS or LAU) corresponding to the common classification of territorial units for statistics that follows Regulation (EC) No 1059/2003.	Mandatory.
5.3.6.2. Territorial unit dataset information	Title and version of the territorial units for statistics dataset that follows Regulation (EC) No 1059/2003 (NUTS or LAU).	Mandatory.
5.3.6.3. Reference link	Link to Eurostat data set used for the noise data reporting.	Optional.

5.4. Noise-control programmes that have been carried out in the past and noise-measures in place in major roads

Note: for the information under 5.4., if there was no noise-control programme in the past, no information shall be reported

Data to be reported	Content	Mandatory or optional nature of the reporting
5.4.1. Road identifier	Unique identifier assigned to each major road segment.	Mandatory if the reporting level is a major road segment. Optional if reporting level is country or any other sub-national level.
5.4.2. Noise-control programme identifier	Unique identifier assigned to each noise-control programme.	Mandatory.
5.4.3. Noise-control programme information	Details of the noise-control programme.	Mandatory.
5.4.4. Explanation	Further explanation besides the information contained in the noise-control programme report.	Optional.
5.4.5. Noise-control programme level	Level at which the noise-control programme is established, such as national or sub-national level, or for all the major roads in the country.	Mandatory.

5.4.6. Information on territorial unit of the noise-control programme (NUTS or LAU)

5.4.6.1. Territorial unit code	Unique code (NUTS or LAU) corresponding to the common classification of territorial units for statistics that follows Regulation (EC) No 1059/2003.	Mandatory.
5.4.6.2. Territorial unit dataset information	Title and version of the territorial units for statistics dataset that follows Regulation (EC) No 1059/2003 (NUTS or LAU).	Mandatory.
5.4.6.3. Reference link	Link to Eurostat data set used for the noise data reporting.	Optional.

Section 6

Noise action plans**6.1. Noise action plan for agglomeration**

Data to be reported	Content	Mandatory or optional nature of the reporting
6.1.1. Noise action plan identifier	Unique identifier assigned to each noise action plan.	Mandatory.
6.1.2. Agglomeration identifier	The unique identifiers of the agglomerations covered in the noise action plan.	Mandatory.
6.1.3. Identifier of competent authority	Unique identifier of the competent authority responsible for action plan development, collection or approval.	Mandatory.
6.1.4. Legal context information of the noise action plan.		
6.1.4.1. Noise action plan start date	Date when the noise action plan is adopted.	Mandatory.
6.1.4.2. Noise action plan end (implementation) date	Date when the noise action plan is expected to be implemented.	Optional.
6.1.4.3. Action plan document	Details of the document containing the action plan.	Optional.
6.1.4.4. Additional description	Additional information about the legal framework of the noise action plan.	Optional.
6.1.5. Limit values	Information on noise limit values in place considered for the evaluation and implementation of noise management and reduction actions. One of the two options shall be provided: — link to the existing noise limit report, or	Mandatory.

	— information on other noise limit values used as criteria for the evaluation and implementation of noise management and reduction actions within the area covered by the action plan.	
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6.1.6. Information on public consultation of the proposed noise action plan.

6.1.6.1. Public consultation documentation summary	Summary of the public consultation documentation.	Optional.
6.1.6.2. Public consultation period	Start and end date of the public consultation period.	Mandatory.
6.1.6.3. Public consultation means	Means used to consult the public and reach different stakeholders.	Mandatory.
6.1.6.4. Type of stakeholders	Type of stakeholders participating in the public consultation.	Optional.
6.1.6.5. Number of participants	Number of people that participated in the public consultation.	Optional.
6.1.6.6. Received comments	Explanation of whether or not any comments were received during the public consultation process.	Mandatory.
6.1.6.7. Revision of noise action plan	Explanation of how a revision of the noise action plan has been conducted and how comments were taken into account after the public consultation process.	Mandatory.

6.1.7. Noise mapping results include summary of information from the strategic noise maps within the area covered by the noise action plans, including the estimated number of people exposed to noise and the identification of problems and situations that need to be improved.

6.1.7.1. Agglomeration identifier	Unique identifier assigned to an agglomeration that is included in the noise action plan.	Optional.
6.1.7.2. Noise source	Noise sources inside the agglomeration addressed by the noise action plan.	Mandatory.
6.1.7.3. Exposed L_{den} 55	Number of people exposed to equal or more than 55 dB L_{den} in the area covered by the noise action plan.	Mandatory.

6.1.7.4. Exposed L_{night} 50	Number of people exposed to equal or more than 50 dB L_{night} in the area covered by the noise action plan.	Mandatory.
6.1.7.5. Exposed to other indicator	Number of people exposed to another noise indicator than L_{den} and L_{night} relevant for the noise action plan.	Optional.
6.1.7.6. Situation for improvement	A description of the noise problems identified and situations that need to be improved.	Mandatory. Optional to describe prioritization criteria used for developing the noise action plan.

6.1.8. Reduction measures contain any management or noise-reduction measures already in force or preparation as well as the description of any actions within the area covered by the action plan, which the competent authorities intend to take in the next five years.

6.1.8.1. Agglomeration identifier	Unique identifier assigned to an agglomeration that is included in the noise action plan.	Optional.
6.1.8.2. Noise source	Noise sources inside the agglomeration addressed by the noise action plan.	Mandatory.
6.1.8.3. Existing measure	Noise abatement measures already existing when adopting the noise action plan.	Mandatory.
6.1.8.4. Planned measure details	Description of the noise abatement measures that will be implemented within the action plan with expected benefits.	Mandatory.
6.1.8.5. Planned measure costs	Cost for the implementation of the foreseen measures.	Optional.
6.1.8.6. Measure in cost	Noise abatement measures included in the cost evaluation.	Optional.

6.1.9. Affected people reduction contains the information about the estimates in terms of the reduction of people affected including the reduction of people suffering health effects of noise, which the competent authorities intend to take in the next five years.

6.1.9.1. Agglomeration identifier	Unique identifier assigned to an agglomeration that is included in the noise action plan.	Optional.
6.1.9.2. Noise source	Noise sources inside the agglomeration addressed by the noise action plan.	Mandatory.
6.1.9.3. Number of people experiencing reduction	Estimated number of people experiencing noise reduction in the area covered by the action plan.	Mandatory if none amongst 6.1.9.5 to 6.1.9.7 is reported.

6.1.9.4. Explanation on the estimation of the number of people experiencing reduction	Textual explanation of the methodology used to estimate the number of people experiencing reduction.	Mandatory if none amongst 6.1.9.5 to 6.1.9.7 is reported.
6.1.9.5. Highly annoyed reduction	Estimated number of less people affected by high annoyance in the area covered by the action plan.	Optional.
6.1.9.6. Highly sleep disturbed reduction	Estimated number of less people affected by high sleep disturbance in the area covered by the action plan.	Optional.
6.1.9.7. Ischaemic heart disease reduction	For roads, estimated number of less cases of ischaemic heart disease in the area covered by the action plan. For railways and air-traffic, estimated number of less people affected by an increased risk of ischaemic heart disease in the area covered by the action plan.	Optional.
6.1.9.8. Other health effects reduction	Information on any other relevant health effect of noise that has been estimated in the action plan, in the area covered by the action plan.	Optional.
6.1.9.9. Health impact explanation	Information on the assessment methods for harmful effects.	Optional.
6.1.9.10. Estimated cost-benefit	Estimated cost-benefit of the measures described in the action plan.	Optional.
6.1.10. Long term strategy	An indication of whether a long-term strategy to abate noise pollution is included in the noise action plan and an explanation of the strategy.	Mandatory.
6.1.11. Estimated overall cost	Estimated overall cost of the action plan.	Optional.
6.1.12. Quiet areas	Indication of whether any quiet area is described in the noise action plan.	Mandatory.
6.1.13. Implementation mechanism	A description of the provisions envisaged for evaluating the implementation of the noise action plan.	Mandatory.
6.1.14. Evaluation of results	A description of how the results of the noise action plan are evaluated.	Mandatory.

6.2. Coverage area of noise action plans for agglomerations

Data to be reported	Content	Mandatory or optional nature of the reporting
6.2.1. Noise action plan identifier	Unique identifier assigned to each noise action plan.	Mandatory.
6.2.2. InspireId	External object identifier of the spatial object (coverage area of the noise action plan of the agglomeration).	Mandatory.
6.2.3. Geometry	Spatial extent of the area covered by a noise action plan for agglomeration.	Mandatory.
6.2.4. Additional information as required by Commission Regulation (EU) No 1089/2010	Additional attributes such as Zone type, Specialized zone type, Environmental domain, Legal basis, Designation period, Competent authority, Life cycle information.	Mandatory.

6.3. Noise action plans for major airports

Data to be reported	Content	Mandatory or optional nature of the reporting
6.3.1. Noise action plan identifier	Unique identifier assigned to each noise action plan.	Mandatory.
6.3.2. ICAO code	The unique international airport codes as defined by the International Civil Aviation Organization that are covered in the noise action plan.	Mandatory.
6.3.3. Identifier of competent authority	Unique identifier of the competent authority responsible for action plan development, collection or approval.	Mandatory.
6.3.4. Legal context information of the noise action plan.		
6.3.4.1. Noise action plan start date	Date when the noise action plan is adopted.	Mandatory.
6.3.4.2. Noise action plan end (implementation) date	Date when the noise action plan is expected to be implemented.	Optional.
6.3.4.3. Action plan document	Details of the document containing the action plan.	Optional.
6.3.4.4. Additional description	Additional information about the legal framework of the noise action plan.	Optional.
6.3.5. Limit values	Information on noise limit values in place considered for the evaluation and implementation of noise management and reduction actions. One of the two options shall be provided:	Mandatory.

	— link to the existing noise limit report, or — information on other noise limit values used as criteria for the evaluation and implementation of noise management and reduction actions within the area covered by the action plan.	
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6.3.6. Information on public consultation of the proposed noise action plan.

6.3.6.1. Public consultation documentation summary	Summary of the public consultation documentation.	Optional.
6.3.6.2. Public consultation period	Start and end date of the public consultation period.	Mandatory.
6.3.6.3. Public consultation means	Means used to consult the public and reach different stakeholders.	Mandatory.
6.3.6.4. Type of stakeholders	Type of stakeholders participating in the public consultation.	Optional.
6.3.6.5. Number of participants	Number of people that participated in the public consultation.	Optional.
6.3.6.6. Received comments	Explanation of whether any comments were received during the public consultation process.	Mandatory.
6.3.6.7. Revision of noise action plan	Explanation of how a revision of the noise action plan has been conducted and how comments were taken into account after the public consultation process.	Mandatory.

6.3.7. Noise mapping results include summary of information from the strategic noise maps within the area covered by the noise action plans, including the estimated number of people exposed to noise and the identification of problems and situations that need to be improved.

6.3.7.1. ICAO code	Unique international code for an airport defined by the International Civil Aviation Organization that is included in the noise action plan.	Optional.
6.3.7.2. Exposed L_{den} 55	Number of people exposed to equal or more than 55 dB L_{den} in the area covered by the noise action plan.	Mandatory.
6.3.7.3. Exposed L_{night} 50	Number of people exposed to equal or more than 50 dB L_{night} in the area covered by the noise action plan.	Mandatory.

6.3.7.4. Exposed to other indicator	Number of people exposed to another noise indicator than L_{den} and L_{night} relevant for the noise action plan.	Optional.
6.3.7.5. Situation for improvement	A description of the problems identified and situations that need to be improved.	Mandatory. Optional to describe prioritization criteria used for developing the noise action plan.

6.3.8. Reduction measures contain any management or noise-reduction measures already in force or preparation as well as the description of any actions within the area covered by the action plan, which the competent authorities intend to take in the next five years.

6.3.8.1. ICAO code	Unique international code for an airport defined by the International Civil Aviation Organization that is included in the noise action plan.	Optional.
6.3.8.2. Existing measure	Noise abatement measures already existing when adopting the noise action plan.	Mandatory.
6.3.8.3. Planned measure details	Description of the noise abatement measures that will be implemented within the action plan with expected benefits.	Mandatory.
6.3.8.4. Planned measure costs	Cost for the implementation of the foreseen measures.	Optional.
6.3.8.5. Measure in cost	Noise abatement measures included in the cost evaluation.	Optional.

6.3.9. Affected people reduction contains the information about the estimates in terms of the reduction of people affected including the reduction of people suffering health effects of noise, which the competent authorities intend to take in the next five years.

6.3.9.1. ICAO Code	Unique international code for an airport defined by the International Civil Aviation Organization that is included in the noise action plan.	Optional.
6.3.9.2. Number of people experiencing reduction	Estimated number of people experiencing noise reduction in the area covered by the action plan.	Mandatory if none amongst 6.3.9.4 to 6.3.9.6 is reported.
6.3.9.3. Explanation on the estimation of the number of people experiencing reduction	Textual explanation of the methodology used to estimate the number of people experiencing reduction.	Mandatory if none amongst 6.3.9.4 to 6.3.9.6 is reported.
6.3.9.4. Highly annoyed reduction	Estimated number of less people affected by high annoyance in the area covered by the action plan.	Optional.

6.3.9.5. Highly sleep disturbed reduction	Estimated number of less people affected by high sleep disturbance in the area covered by the action plan.	Optional.
6.3.9.6. Ischaemic heart disease reduction	Estimated number of less people affected by an increased risk of ischaemic heart disease in the area covered by the action plan.	Optional.
6.3.9.7. Other health effects reduction	Information on any other relevant health effect of noise that has been estimated in the action plan, in the area covered by the action plan.	Optional.
6.3.9.8. Health impact explanation	Information on the assessment methods for harmful effects.	Optional.
6.3.9.9. Estimated-cost benefit	Estimated cost-benefit of the measures described in the action plan.	Optional.
6.3.10. Long term strategy	An indication of whether a long-term strategy to abate noise pollution is included in the noise action plan and an explanation of the strategy.	Mandatory.
6.3.11. Estimated overall cost	Estimated overall cost of the action plan.	Optional.
6.3.12. Quiet areas	Explanation of whether any quiet area is described in the noise action plan.	Mandatory.
6.3.13. Implementation mechanism	A description of the provisions envisaged for evaluating the implementation of the noise action plan.	Mandatory.
6.3.14. Evaluation of results	A description of how the results of the noise action plan are evaluated.	Mandatory.

6.4. Coverage area of noise action plan for major airports

Data to be reported	Content	Mandatory or optional nature of the reporting
6.4.1. Noise action plan identifier	Unique identifier assigned to each noise action plan.	Mandatory.
6.4.2. inspireId	External object identifier of the spatial object (coverage area of noise action plan for major airports).	Mandatory.
6.4.3. Geometry	Spatial extent of the area covered by a noise action plan for airport.	Mandatory.

6.4.4. Additional information as required by Commission Regulation (EU) No 1089/2010	Additional attributes such as Zone type, Specialized zone type, Environmental domain, Legal basis, Designation period, Competent authority, Life cycle information.	Mandatory.
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6.5. Noise action plan for major railways

Data to be reported	Content	Mandatory or optional nature of the reporting
6.5.1. Noise action plan identifier	Unique identifier assigned to each noise action plan.	Mandatory.
6.5.2. Major railways included in the noise action plan	Indication of the major railways included in the noise action plan through rail identifiers or territorial units for statistics.	Mandatory.
6.5.3. Identifier of competent authority	Unique identifier of the competent authority responsible for action plan development, collection or approval.	Mandatory.

6.5.4. Legal context information of the noise action plan.

6.5.4.1. Noise action plan start date	Date when the noise action plan is adopted.	Mandatory.
6.5.4.2. Noise action plan end (implementation) date	Date when the noise action plan is expected to be implemented.	Optional.
6.5.4.3. Action plan document	Details of the document containing the action plan.	Optional.
6.5.4.4. Additional description	Additional information about the legal framework of the noise action plan.	Optional.
6.5.5. Limit values	Information on noise limit values in place considered for the evaluation and implementation of noise management and reduction actions. One of the two options shall be reported: — link to the existing noise limit report, or — information on other noise limit values used as criteria for the evaluation and implementation of noise management and reduction actions within the area covered by the action plan.	Mandatory.

6.5.6. Information on public consultation of the proposed noise action plan.

6.5.6.1. Public consultation documentation summary	Summary of the public consultation documentation.	Optional.
6.5.6.2. Public consultation period	Start and end date of the public consultation period.	Mandatory.
6.5.6.3. Public consultation means	Means used to consult the public and reach different stakeholders.	Mandatory.
6.5.6.4. Type of stakeholders	Type of stakeholders participating in the public consultation.	Optional.
6.5.6.5. Number of participants	Number of people that participated in the public consultation.	Optional.
6.5.6.6. Received comments	Explanation of whether any comments were received during the public consultation process.	Mandatory.
6.5.6.7. Revision of noise action plan	Explanation of how a revision of the noise action plan has been conducted and how comments were taken into account after the public consultation process.	Mandatory.

6.5.7. Noise mapping results include summary of information from the strategic noise maps within the area covered by the noise action plans, including the estimated number of people exposed to noise and the identification of problems and situations that need to be improved.

6.5.7.1. Rail identifier	Unique identifier assigned to a railway that is included in the noise action plan.	Optional.
6.5.7.2. Exposed L_{den} 55	Number of people exposed to equal or more than 55 dB L_{den} in the area covered by the noise action plan.	Mandatory.
6.5.7.3. Exposed L_{night} 50	Number of people exposed to equal or more than 50 dB L_{night} in the area covered by the noise action plan.	Mandatory.
6.5.7.4. Exposed to other indicator	Number of people exposed to another noise indicator than L_{den} and L_{night} relevant for the noise action plan.	Optional.
6.5.7.5. Situation for improvement	A description of the problems identified and situations that need to be improved.	Mandatory. Optional to describe prioritization criteria used for developing the noise action plan.

6.5.8. Reduction measures contain any management or noise-reduction measures already in force or preparation as well as the description of any actions within the area covered by the action plan, which the competent authorities intend to take in the next five years.

6.5.8.1. Rail identifier	Unique identifier assigned to a railway that is included in the noise action plan.	Optional.
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6.5.8.2. Existing measure	Noise abatement measures already existing when adopting the noise action plan.	Mandatory.
6.5.8.3. Planned measure details	Description of the noise abatement measures that will be implemented within the action plan with expected benefits.	Mandatory.
6.5.8.4. Planned measure costs	Cost for the implementation of the foreseen measures.	Optional.
6.5.8.5. Measure in cost	Noise abatement measures included in the cost evaluation.	Optional.

6.5.9. Affected people reduction contains the information about the estimates in terms of the reduction of people affected including the reduction of people suffering health effects of noise, which the competent authorities intend to take in the next five years.

6.5.9.1. Rail identifier	Unique identifier assigned to a railway that is included in the noise action plan.	Optional.
6.5.9.2. Number of people experiencing reduction	Estimated number of people experiencing noise reduction in the area covered by the action plan.	Mandatory if none amongst 6.5.9.4 to 6.5.9.6 is reported.
6.5.9.3. Explanation on the estimation of the number of people experiencing reduction	Textual explanation of the methodology used to estimate the number of people experiencing reduction.	Mandatory if none amongst 6.5.9.4 to 6.5.9.6 is reported.
6.5.9.4. Highly annoyed reduction	Estimated number of less people affected by high annoyance in the area covered by the action plan.	Optional.
6.5.9.5. Highly sleep disturbed reduction	Estimated number of less people affected by high sleep disturbance in the area covered by the action plan.	Optional.
6.5.9.6. Ischaemic heart disease reduction	Estimated number of less people affected by an increased risk of ischaemic heart disease in the area covered by the action plan.	Optional.
6.5.9.7. Other health effects reduction	Information on any other relevant health effect of noise that has been estimated in the action plan, in the area covered by the action plan.	Optional.
6.5.9.8. Health impact explanation	Information on the assessment methods for harmful effects.	Optional.
6.5.9.9. Estimated-cost benefit	Estimated cost-benefit of the measures described in the action plan.	Optional.

6.5.10. Long term strategy	An indication of whether a long-term strategy to abate noise pollution is included in the noise action plan and an explanation of the strategy.	Mandatory.
6.5.11. Estimated overall cost	Estimated overall cost of the action plan.	Optional.
6.5.12. Quiet areas	Explanation of whether any quiet area is described in the noise action plan.	Mandatory.
6.5.13. Implementation mechanism	A description of the provisions envisaged for evaluating the implementation of the noise action plan.	Mandatory.
6.5.14. Evaluation of results	A description of how the results of the noise action plan are evaluated.	Mandatory.

6.6. Coverage area of noise action plan for major railways

Data to be reported	Content	Mandatory or optional nature of the reporting
6.6.1. Noise action plan identifier	Unique identifier assigned to each noise action plan.	Mandatory.
6.6.2. InspireId	External object identifier of the spatial object (coverage area of noise action plan for major railways).	Mandatory.
6.6.3. Geometry	Spatial extent of the area covered by a noise action plan for major railways.	Mandatory.
6.6.4. Additional information as required by Commission Regulation (EU) No 1089/2010	Additional attributes such as Zone type, Specialized zone type, Environmental domain, Legal basis, Designation period, Competent authority, Life cycle information.	Mandatory.

6.7. Noise action plan for major roads

Data to be reported	Content	Mandatory or optional nature of the reporting
6.7.1. Noise action plan identifier	Unique identifier assigned to each noise action plan.	Mandatory.
6.7.2. Major roads included in the noise action plan	Indication of the major roads included in the noise action plan through roads identifiers or territorial units for statistics.	Mandatory.
6.7.3. Identifier of competent authority	Unique identifier of the competent authority responsible for action plan development, collection or approval.	Mandatory.
6.7.4. Legal context information of the noise action plan.		

6.7.4.1. Noise action plan start date	Date when the noise action plan is adopted.	Mandatory.
6.7.4.2. Noise action plan end (implementation) date	Date when the noise action plan is expected to be implemented.	Optional.
6.7.4.3. Action plan document	Details of the document containing the action plan.	Optional.
6.7.4.4. Additional description	Additional information about the legal framework of the noise action plan.	Optional.
6.7.5. Limit values	Information on noise limit values in place considered for the evaluation and implementation of noise management and reduction actions. One of the two options shall be reported: — link to the existing noise limit report, or — information on other noise limit values used as criteria for the evaluation and implementation of noise management and reduction actions within the area covered by the action plan.	Mandatory.

6.7.6. Information on public consultation of the proposed noise action plan.

6.7.6.1. Public consultation documentation summary	Summary of the public consultation documentation.	Optional.
6.7.6.2. Public consultation period	Start and end date of the public consultation period.	Mandatory.
6.7.6.3. Public consultation means	Means used to consult the public and reach different stakeholders.	Mandatory.
6.7.6.4. Type of stakeholders	Type of stakeholders participating in the public consultation.	Optional.
6.7.6.5. Number of participants	Number of people that participated in the public consultation.	Optional.
6.7.6.6. Received comments	Explanation of whether any comments were received during the public consultation process.	Mandatory.
6.7.6.7. Revision of noise action plan	Explanation of how a revision of the noise action plan has been conducted and how comments were taken into account after the public consultation process.	Mandatory.

6.7.7. Noise mapping results include summary of information from the strategic noise maps within the area covered by the noise action plans, including the estimated number of people exposed to noise and the identification of problems and situations that need to be improved.

6.7.7.1. Road identifier	Unique identifier assigned to a road that is included in the noise action plan.	Optional.
6.7.7.2. Exposed L_{den} 55	Number of people exposed to equal or more than 55 dB L_{den} in the area covered by the noise action plan.	Mandatory.
6.7.7.3. Exposed L_{night} 50	Number of people exposed to equal or more than 50 dB L_{night} in the area covered by the noise action plan.	Mandatory.
6.7.7.4. Exposed to other indicator	Number of people exposed to another noise indicator than L_{den} and L_{night} relevant for the noise action plan.	Optional.
6.7.7.5. Situation for improvement	A description of the problems identified and situations that need to be improved.	Mandatory. Optional to describe prioritization criteria used for developing the noise action plan.

6.7.8. Reduction measures contain any management or noise-reduction measures already in force or preparation as well as the description of any actions within the area covered by the action plan, which the competent authorities intend to take in the next five years.

6.7.8.1. Road identifier	Unique identifier assigned to a road that is included in the noise action plan.	Optional.
6.7.8.2. Existing measure	Noise abatement measures already existing when adopting the noise action plan.	Mandatory.
6.7.8.3. Planned measure details	Description of the noise abatement measures that will be implemented within the action plan with expected benefits.	Mandatory.
6.7.8.4. Planned measure costs	Cost for the implementation of the foreseen measures.	Optional.
6.7.8.5. Measure in cost	Noise abatement measures included in the cost evaluation.	Optional.

6.7.9. Affected people reduction contains the information about the estimates in terms of the reduction of people affected including the reduction of people suffering health effects of noise, which the competent authorities intend to take in the next five years.

6.7.9.1. Road identifier	Unique identifier assigned to a road that is included in the noise action plan.	Optional.
6.7.9.2. Number of people experiencing reduction	Estimated number of people experiencing noise reduction in the area covered by the action plan.	Mandatory if none amongst 6.7.9.4 to 6.7.9.6 is reported.

6.7.9.3. Explanation on the estimation of the number of people experiencing reduction	Textual explanation of the methodology used to estimate the number of people experiencing reduction.	Mandatory if none amongst 6.7.9.4 to 6.7.9.6 is reported.
6.7.9.4. Highly annoyed reduction	Estimated number of less people affected by high annoyance in the area covered by the action plan.	Optional.
6.7.9.5. Highly sleep disturbed reduction	Estimated number of less people affected by high sleep disturbance in the area covered by the action plan.	Optional.
6.7.9.6. Ischaemic heart disease reduction	Estimated number of less cases of ischaemic heart disease in the area covered by the action plan.	Optional.
6.7.9.7. Other health effects reduction	Information on any other relevant health effect of noise that has been estimated in the action plan, in the area covered by the action plan.	Optional.
6.7.9.8. Health impact explanation	Information on the assessment methods for harmful effects.	Optional.
6.7.9.9. Estimated-cost benefit	Estimated cost-benefit of the measures described in the action plan.	Optional.
6.7.10. Long term strategy	An indication of whether a long-term strategy to abate noise pollution is included in the noise action plan and an explanation of the strategy.	Mandatory.
6.7.11. Estimated overall cost	Estimated overall cost of the action plan.	Optional.
6.7.12. Quiet areas	Explanation of whether any quiet area is described in the noise action plan.	Mandatory.
6.7.13. Implementation mechanism	A description of the provisions envisaged for evaluating the implementation of the noise action plan.	Mandatory.
6.7.14. Evaluation of results	A description of how the results of the noise action plan are evaluated.	Mandatory.

6.8. Coverage area of noise action plan for major roads

Data to be reported	Content	Mandatory or optional nature of the reporting
6.8.1. Noise action plan identifier	Unique identifier assigned to each noise action plan.	Mandatory.

6.8.2. inspireId	External object identifier of the spatial object (coverage area of noise action plan for major roads).	Mandatory.
6.8.3. Geometry	Spatial extent of the area covered by a noise action plan for major roads.	Mandatory.
6.8.4. Additional information as required by Commission Regulation (EU) No 1089/2010	Additional attributes such as Zone type, Specialized zone type, Environmental domain, Legal basis, Designation period, Competent authority, Life cycle information.	Mandatory.

Section 7

Delimited quiet areas in agglomerations or in open country**7.1. Quiet areas in agglomerations or in open country**

Note: for the information under 7.1. , if no quiet area is delimited, no information shall be reported.

Data to be reported	Content	Mandatory or optional nature of the reporting
7.1.1. Quiet area identifier	Unique identifier assigned to each quiet area.	Mandatory.
7.1.2. Quiet area name	Name of the quiet area.	Optional.
7.1.3. Quiet area type	Description of the characteristics of the quiet area such as natural reserve, playground, green space.	Mandatory.
7.1.4. Quiet area documentation	Any existing documentation related to the delimitation of the quiet area described.	Optional.
7.1.5. Agglomeration identifier	Unique agglomeration identifier where the quiet area described is delimited.	Mandatory if quiet area is in an agglomeration.
7.1.6. Protection from noise sources	Defines the noise sources against which the quiet area is protected.	Optional.
7.1.7. Protection from other noise sources	Additional noise sources against which the quiet area is protected.	Optional.
7.1.8. Protection measures	Measures for protecting the designated quiet area from noise.	Mandatory.
7.1.9. Noise action plan identifier	Unique identifier of noise action plan that includes protection or preservation of a quiet area.	Mandatory if quiet area is included in a noise action plan.
7.1.10. inspireId	External object identifier of the spatial object (quiet area).	Mandatory.
7.1.11. Geometry	Spatial extent of the quiet area.	Mandatory.

7.1.12. Additional information as required by Commission Regulation (EU) No 1089/2010	Additional attributes such as Zone type, Specialized zone type, Environmental domain, Legal basis, Designation period, Competent authority, Life cycle information.	Mandatory.
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