The Non-Aligned Movement (NAM) Database



Thematic Summary of the Draft Resolutions of the 77th Session of the United Nations First Committee Submitted by the States Members of the United Nations That Are Members of the Movement of Non-Aligned Countries	
	Disarmament
Nuclear Weapon Convention	 (A/C.1/77/L.7, Para 3) Endorses the wide support expressed at the high-level meeting for a comprehensive convention on nuclear weapons; (A/C.1/77/L.7, Para 4) Calls for the urgent commencement of negotiations in the Conference on Disarmament on effective nuclear disarmament measures to achieve the total elimination of nuclear weapons, including, in particular, on a comprehensive convention on nuclear weapons; (A/C.1/77/L.7, Para 6) Takes note of the views provided by Member States with regard to achieving the objective of the total elimination of nuclear weapons, in particular on the elements of a comprehensive convention on nuclear weapons, as reflected in the report submitted by the Secretary-General pursuant to resolution 76/36, and requests the Secretary-General to forward this report to the Conference on Disarmament and the Disarmament Commission for their early consideration; (A/C.1/77/L.7, Para 13) Requests the Secretary-General to seek the views of Member States with regard to achieving the objective of the total elimination of nuclear weapons, in particular on effective nuclear disarmament measures, including elements of a comprehensive convention;
Disarmament and Development	 (A/C.1/77/L.4, Para 2) Calls upon States to adopt unilateral, bilateral, regional and multilateral measures so as to contribute to ensuring the application of scientific and technological progress within the framework of international security, disarmament and other related spheres, without detriment to the environment or to its effective contribution to attaining sustainable development; (A/C.1/77/L.5, Para 1) Stresses the central role of the United Nations in the relationship between disarmament and development, and requests the Secretary-General to strengthen further the role of the

Organization in this field, in particular the high-level Steering Group on Disarmament and Development, in order to ensure continued and effective coordination and close cooperation between the relevant United Nations departments, agencies and subagencies;
(A/C.1/77/L.5, Para 2) Requests the Secretary-General to continue to take action, through appropriate organs and within available resources, for the implementation of the action programme adopted on 11 September 1987 at the International Conference on the Relationship between Disarmament and Development;
(A/C.1/77/L.5, Para 3) Urges the international community to devote part of the resources made available by the implementation of disarmament and arms limitation agreements to economic and social development, with a view to reducing the ever-widening gap between developed and developing countries;
(A/C.1/77/L.5, Para 4) Encourages the international community to achieve the Sustainable Development Goals ⁶ and to make reference to the contribution that disarmament could provide in meeting them when it reviews its progress towards this purpse, as well as to make greater efforts to integrate disarmament, humanitarian and development activities;
(A/C.1/77/L.5, Para 5) Encourages the relevant regional and subregional organizations and institutions, non-governmental organizations and research institutes to incorporate issues related to the relationship between disarmament and development into their agendas and, in this regard, to take into account the report of the Group of Governmental Experts on the relationship between disarmament and development;
(A/C.1/77/L.5, Para 6) Reiterates its invitation to Member States to provide the Secretary-General with information regarding measures and efforts to devote part of the resources made available by the implementation of disarmament and arms limitation agreements to economic and social development, with a view to reducing the ever-widening gap between developed and developing countries;
(A/C.1/77/L.5, Para 7) Requests the Secretary-General to report to the General Assembly at its seventy-eighth session on the implementation of the present resolution, including the information provided by Member States pursuant to paragraph 6 above;
(A/C.1/77/L.5, Para 8) Decides to include in the provisional agenda of its seventy-eighth session, under the item entitled "General and complete disarmament", the sub-item entitled "Relationship between disarmament and development".

Nuclear-Weapon States Obligations	(A/C.1/77/L.7, Para 2) Calls for urgent compliance with the legal obligations and the fulfilment of the commitments undertaken on nuclear disarmament;
Bilateral Disarmament	(A/C.1/77/L.4, Para 2) Calls upon States to adopt unilateral, bilateral, regional and multilateral measures so as to contribute to ensuring the application of scientific and technological progress within the framework of international security, disarmament and other related spheres, without detriment to the environment or to its effective contribution to attaining sustainable development;
	(A/C.1/77/L.8, Para 1) Reaffirms multilateralism as the core principle in negotiations in the area of disarmament and non-proliferation with a view to maintaining and strengthening universal norms and enlarging their scope;
	(A/C.1/77/L.8, Para 2) Also reaffirms multilateralism as the core principle in resolving disarmament and non-proliferation concerns;
Disarmament and Nonproliferation	(A/C.1/77/L.8, Para 3) Urges the participation of all interested States in multilateral negotiations on arms regulation, non-proliferation and disarmament in a non-discriminatory and transparent manner;
	(A/C.1/77/L.8, Para 5) Calls once again upon all Member States to renew and fulfil their individual and collective commitments to multilateral cooperation as an important means of pursuing and achieving their common objectives in the area of disarmament and non- proliferation;
	(A/C.1/77/L.8, Para 7) Takes note of the report of the Secretary-General containing the replies of Member States on the promotion of multilateralism in the area of disarmament and non-proliferation, submitted pursuant to resolution 76/40;
	(A/C.1/77/L.8, Para 8) Requests the Secretary-General to seek the views of Member States on the issue of the promotion of multilateralism in the area of disarmament and non proliferation and to submit a report thereon to the General Assembly at its seventy - eighth session;
	(A/C.1/77/L.8, Para 9) Decides to include in the provisional agenda of its seventy-eighth session, under the item entitled "General and complete disarmament", the sub-item entitled "Promotion of multilateralism in the area of disarmament and non-proliferation".
	(A/C.1/77/L.9, Para 2) Commends the three regional centres for peace and disarmament for their sustained support provided to Member States

	for over 30 years in implementing disarmament, arms control and non- proliferation activities through seminars and conferences, capacity- building and training, policy and technical expertise, and information and advocacy at the global, regional and national levels;
Disarmament and the Environment	(A/C.1/77/L.4, Para 1) Reaffirms that international disarmament forums should take fully into account the relevant environmental norms in negotiating treaties and agreements on disarmament and arms limitation and that all States, through their actions, should contribute fully to ensuring compliance with the aforementioned norms in the implementation of treaties and conventions to which they are parties;
	(A/C.1/77/L.4, Para 2) Calls upon States to adopt unilateral, bilateral, regional and multilateral measures so as to contribute to ensuring the application of scientific and technological progress within the framework of international security, disarmament and other related spheres, without detriment to the environment or to its effective contribution to attaining sustainable development;
	(A/C.1/77/L.4, Para 3) Welcomes the information provided by Member States on the implementation of the measures that they have adopted to promote the objectives envisaged in the present resolution;
	(A/C.1/77/L.4, Para 4) Invites all Member States to communicate to the Secretary-General information on the measures that they have adopted to promote the objectives envisaged in the present resolution, and requests the Secretary-General to submit a report containing that information to the General Assembly at its seventy-eighth session;
	(A/C.1/77/L.4, Para 5) Decides to include in the provisional agenda of its seventy-eighth session, under the item entitled "General and complete disarmament", the sub-item entitled "Observance of environmental norms in the drafting and implementation of agreements on disarmament and arms control".
	(A/C.1/77/L.10, Para 1) Expresses its appreciation to the Member States and international organizations that submitted their views to the Secretary-General pursuant to resolution 75/42 and previous resolutions on the subject;
	(A/C.1/77/L.10, Para 2) Invites Member States and relevant international organizations, particularly those that have not yet done so, to communicate to the Secretary-General their views on the effects of the use of armaments and ammunitions containing depleted uranium;

	(A/C.1/77/L.10, Para 3) Requests the Secretary-General to request relevant international organizations to update and complete, as appropriate, their studies and research on the effects of the use of armaments and ammunitions containing depleted uranium on human health and the environment;
	(A/C.1/77/L.10, Para 4) Encourages Member States, particularly the affected States, as necessary, to facilitate the studies and research referred to in paragraph 3 above;
	(A/C.1/77/L.10, Para 5) Also encourages Member States to follow closely the development of the studies and research referred to in paragraph 3 above;
	(A/C.1/77/L.10, Para 6) Invites Member States that have used armaments and ammunitions containing depleted uranium in armed conflicts to provide the relevant authorities of affected States, upon request, with information, as detailed as possible, about the location of the areas of use and the amounts used, with the objective of facilitating the assessment and clearance of such areas;
	(A/C.1/77/L.10, Para 7) Encourages Member States in a position to do so to provide assistance to States affected by the use of arms and ammunitions containing depleted uranium, in particular in identifying and managing contaminated sites and material;
	(A/C.1/77/L.4, Para 2) Calls upon States to adopt unilateral, bilateral, regional and multilateral measures so as to contribute to ensuring the application of scientific and technological progress within the framework of international security, disarmament and other related spheres, without detriment to the environment or to its effective contribution to attaining sustainable development;
NAM Involvement and Contributions	(A/C.1/77/L.5, Para 2) Requests the Secretary-General to continue to take action, through appropriate organs and within available resources, for the implementation of the action programme adopted on 11 September 1987 at the International Conference on the Relationship between Disarmament and Development;
	(A/C.1/77/L.5, Para 6) Reiterates its invitation to Member States to provide the Secretary-General with information regarding measures and efforts to devote part of the resources made available by the

UN General Assembly	
United Nations Fora	
	(A/C.1/77/L.8, Para 8) Requests the Secretary-General to seek the views of Member States on the issue of the promotion of multilateralism in the area of disarmament and non proliferation and to submit a report thereon to the General Assembly at its seventy - eighth session;
	(A/C.1/77/L.8, Para 5) Calls once again upon all Member States to renew and fulfil their individual and collective commitments to multilateral cooperation as an important means of pursuing and achieving their common objectives in the area of disarmament and non-proliferation;
	(A/C.1/77/L.7, Para 14) Also requests the Secretary-General to report on the implementation of the present resolution to the General Assembly at its seventy-eighth session;
	(A/C.1/77/L.7, Para 13) Requests the Secretary-General to seek the views of Member States with regard to achieving the objective of the total elimination of nuclear weapons, in particular on effective nuclear disarmament measures, including elements of a comprehensive convention on nuclear weapons, and to submit a report thereon to the General Assembly at its seventy-eighth session, and also to transmit the report to the Conference on Disarmament;
	(A/C.1/77/L.7, Para 12) Calls upon Member States, the United Nations system and civil society, including non-governmental organizations, academia, parliamentarians, the mass media and individuals, to commemorate and promote the International Day for the Total Elimination of Nuclear Weapons through all means of educational and public awareness-raising activities about the threat posed to humanity by nuclear weapons and the necessity for their total elimination in order to mobilize international efforts towards achieving the common goal of a nuclear-weapon-free world;
	(A/C.1/77/L.7, Para 11) Requests the Secretary-General to continue to update the platform for the promotion of these activities and to undertake all the arrangements, providing all the necessary resources and services, including webcasts, to commemorate and promote the International Day for the Total Elimination of Nuclear Weapons, including through the United Nations Offices at Geneva and Vienna, as well as the United Nations regional centres for peace and disarmament;
	implementation of disarmament and arms limitation agreements to economic and social development, with a view to reducing the ever- widening gap between developed and developing countries;

(A/C.1/77/L.4, Para 4) Invites all Member States to communicate to the Secretary-General information on the measures that they have adopted to promote the objectives envisaged in the present resolution, and requests the Secretary-General to submit a report containing that information to the General Assembly at its seventy-eighth session;
(A/C.1/77/L.4, Para 5) Decides to include in the provisional agenda of its seventy-eighth session, under the item entitled "General and complete disarmament", the sub-item entitled "Observance of environmental norms in the drafting and implementation of agreements on disarmament and arms control".
(A/C.1/77/L.5, Para 7) Requests the Secretary-General to report to the General Assembly at its seventy-eighth session on the implementation of the present resolution, including the information provided by Member States pursuant to paragraph 6 above;
(A/C.1/77/L.5, Para 8) Decides to include in the provisional agenda of its seventy-eighth session, under the item entitled "General and complete disarmament", the sub-item entitled "Relationship between disarmament and development".
(A/C.1/77/L.6, Para 1) 1. Recalls the adoption by consensus of the recommendations on the objectives and agenda of the fourth special session of the General Assembly devoted to disarmament by the Openended Working Group on the fourth special session of the General Assembly devoted to disarmament, which was established by the Assembly by its resolution 65/66 and its decision 70/551 and which met in New York in 2016 and 2017;
(A/C.1/77/L.6, Para 2) Also recalls the report of the Open-ended Working Group and the substantive recommendations contained therein;
(A/C.1/77/L.6, Para 3) Reiterates its appreciation to the participants of the Open-ended Working Group for their constructive contribution to its work;
(A/C.1/77/L.6, Para 4) Encourages Member States to continue consultations on the next steps for the convening of the fourth special session of the General Assembly devoted to disarmament;
(A/C.1/77/L.6, Para 5) Decides to include in the provisional agenda of its seventy-eighth session, under the item entitled "General and complete disarmament", the sub-item entitled "Convening of the fourth special session of the General Assembly devoted to disarmament".
(A/C.1/77/L.7, Para 1) Underlines the strong support, expressed at the high-level meeting of the General Assembly on nuclear disarmament, held on 26 September 2013, for taking urgent and effective measures to achieve the total elimination of nuclear weapons;

(A/C.1/77/L.7, Para 3) Endorses the wide support expressed at the high-level meeting for a comprehensive convention on nuclear weapons;

(A/C.1/77/L.7, Para 5) Decides to convene, in New York, on a date to be decided later, a United Nations high-level international conference on nuclear disarmament to review the progress made in this regard;

(A/C.1/77/L.7, Para 6) Takes note of the views provided by Member States with regard to achieving the objective of the total elimination of nuclear weapons, in particular on the elements of a comprehensive convention on nuclear weapons, as reflected in the report submitted by the Secretary-General pursuant to resolution 76/36, and requests the Secretary-General to forward this report to the Conference on Disarmament and the Disarmament Commission for their early consideration;

(A/C.1/77/L.7, Para 7) Welcomes the commemoration and promotion of 26 September as the International Day for the Total Elimination of Nuclear Weapons devoted to furthering this objective;

(A/C.1/77/L.7, Para 8) Expresses its appreciation to Member States, the United Nations system and civil society, including nongovernmental organizations, academia, parliamentarians, the mass media and individuals that developed activities in promotion of the International Day for the Total Elimination of Nuclear Weapons;

(A/C.1/77/L.7, Para 9) Reiterates its request to the President of the General Assembly to organize, on 26 September every year, a one-day high-level plenary meeting of the Assembly to commemorate and promote the International Day for the Total Elimination of Nuclear Weapons;

(A/C.1/77/L.7, Para 10) Decides that the aforementioned high-level plenary meeting shall be held with the participation of Member and observer States, represented at the highest possible level, as well as with the participation of the President of the General Assembly and the Secretary-General;

(A/C.1/77/L.7, Para 11) Requests the Secretary-General to continue to update the platform for the promotion of these activities and to undertake all the arrangements, providing all the necessary resources and services, including webcasts, to commemorate and promote the International Day for the Total Elimination of Nuclear Weapons, including through the United Nations Offices at Geneva and Vienna, as well as the United Nations regional centres for peace and disarmament;

(A/C.1/77/L.7, Para 12) Calls upon Member States, the United Nations system and civil society, including non-governmental organizations, academia, parliamentarians, the mass media and

individuals, to commemorate and promote the International Day for the Total Elimination of Nuclear Weapons through all means of educational and public awareness-raising activities about the threat posed to humanity by nuclear weapons and the necessity for their total elimination in order to mobilize international efforts towards achieving the common goal of a nuclear-weapon-free world;
(A/C.1/77/L.7, Para 13) Requests the Secretary-General to seek the views of Member States with regard to achieving the objective of the total elimination of nuclear weapons, in particular on effective nuclear disarmament measures, including elements of a comprehensive convention on nuclear weapons, and to submit a report thereon to the General Assembly at its seventy-eighth session, and also to transmit the report to the Conference on Disarmament;
(A/C.1/77/L.7, Para 14) Also requests the Secretary-General to report on the implementation of the present resolution to the General Assembly at its seventy-eighth session;
(A/C.1/77/L.7, Para 15) Decides to include in the provisional agenda of its seventy-eighth session, under the item entitled "General and complete disarmament", the sub-item entitled "Follow-up to the 2013 high-level meeting of the General Assembly on nuclear disarmament".
(A/C.1/77/L.8, Para 7) Takes note of the report of the Secretary- General containing the replies of Member States on the promotion of multilateralism in the area of disarmament and non-proliferation, submitted pursuant to resolution 76/40;
(A/C.1/77/L.8, Para 8) Requests the Secretary-General to seek the views of Member States on the issue of the promotion of multilateralism in the area of disarmament and non proliferation and to submit a report thereon to the General Assembly at its seventy - eighth session;
(A/C.1/77/L.8, Para 9) Decides to include in the provisional agenda of its seventy-eighth session, under the item entitled "General and complete disarmament", the sub-item entitled "Promotion of multilateralism in the area of disarmament and non-proliferation".
(A/C.1/77/L.9, Para 7) Decides to include in the provisional agenda of its seventy-eighth session, under the item entitled "Review and implementation of the Concluding Document of the Twelfth Special Session of the General Assembly", the sub-item entitled "United Nations regional centres for peace and disarmament".
(A/C.1/77/L.10, Para 1) Expresses its appreciation to the Member States and international organizations that submitted their views to the Secretary-General pursuant to resolution 75/42 and previous resolutions on the subject;

	 (A/C.1/77/L.10, Para 8) Requests the Secretary-General to submit an updated report on the subject to the General Assembly at its seventy-ninth session, reflecting the information submitted by Member States and relevant international organizations, including the information submitted pursuant to paragraphs 2 and 3 above; (A/C.1/77/L.10, Para 9) Decides to include in the provisional agenda of its seventy-ninth session, under the item entitled "General and complete disarmament", the sub-item entitled "Effects of the use of armaments and ammunitions containing depleted uranium". (A/C.1/77/L.11, Para 4) Requests the Secretary-General to submit to the General Assembly at its seventy-ninth session a report on the implementation of the present resolution.
SSOD	(A/C.1/77/L.6, Para 1) 1. Recalls the adoption by consensus of the recommendations on the objectives and agenda of the fourth special session of the General Assembly devoted to disarmament by the Open- ended Working Group on the fourth special session of the General Assembly devoted to disarmament, which was established by the Assembly by its resolution 65/66 and its decision 70/551 and which met in New York in 2016 and 2017; (A/C.1/77/L.6, Para 2) Also recalls the report of the Open-ended Working Group and the substantive recommendations contained
	 (A/C.1/77/L.6, Para 3) Reiterates its appreciation to the participants of the Open-ended Working Group for their constructive contribution to its work; (A/C.1/77/L.6, Para 4) Encourages Member States to continue consultations on the next steps for the convening of the fourth special session of the General Assembly devoted to disarmament;
	(A/C.1/77/L.6, Para 5) Decides to include in the provisional agenda of its seventy-eighth session, under the item entitled "General and complete disarmament", the sub-item entitled "Convening of the fourth special session of the General Assembly devoted to disarmament".
Conference on Disarmament	(A/C.1/77/L.7, Para 4) Calls for the urgent commencement of negotiations in the Conference on Disarmament on effective nuclear disarmament measures to achieve the total elimination of nuclear weapons, including, in particular, on a comprehensive convention on nuclear weapons;
	(A/C.1/77/L.7, Para 6) Takes note of the views provided by Member States with regard to achieving the objective of the total elimination of

	 nuclear weapons, in particular on the elements of a comprehensive convention on nuclear weapons, as reflected in the report submitted by the Secretary-General pursuant to resolution 76/36, and requests the Secretary-General to forward this report to the Conference on Disarmament and the Disarmament Commission for their early consideration; (A/C.1/77/L.7, Para 13) Requests the Secretary-General to seek the views of Member States with regard to achieving the objective of the total elimination of nuclear weapons, in particular on effective nuclear disarmament measures, including elements of a comprehensive convention on nuclear weapons, and to submit a report thereon to the General Assembly at its seventy-eighth session, and also to transmit the report to the Conference on Disarmament;
UN Disarmament Commission	(A/C.1/77/L.7, Para 6) Takes note of the views provided by Member States with regard to achieving the objective of the total elimination of nuclear weapons, in particular on the elements of a comprehensive convention on nuclear weapons, as reflected in the report submitted by the Secretary-General pursuant to resolution 76/36, and requests the Secretary-General to forward this report to the Conference on Disarmament and the Disarmament Commission for their early consideration;
UNIDIR and UNODA	(A/C.1/77/L.9, Para 5) Emphasizes the importance of the activities of the Regional Disarmament Branch of the Office for Disarmament Affairs of the Secretariat;
UN Regional Centers for Peace and Disarmament	(A/C.1/77/L.7, Para 11) Requests the Secretary-General to continue to update the platform for the promotion of these activities and to undertake all the arrangements, providing all the necessary resources and services, including webcasts, to commemorate and promote the International Day for the Total Elimination of Nuclear Weapons, including through the United Nations Offices at Geneva and Vienna, as well as the United Nations regional centres for peace and disarmament; (A/C.1/77/L.9, Para 1) Reiterates the importance of United Nations activities at the regional level to advance disarmament and to increase the stability and security of its Member States, which could be promoted in a substantive manner by the maintenance and further strengthening of the three regional centres for peace and disarmament; (A/C.1/77/L.9, Para 2) Commends the three regional centres for peace and disarmament for their sustained support provided to Member States for over 30 years in implementing disarmament, arms control and non- proliferation activities through seminars and conferences, capacity-

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	building and training, policy and technical expertise, and information and advocacy at the global, regional and national levels;
	(A/C.1/77/L.9, Para 3) Reaffirms that, in order to achieve positive results, it is useful for the three regional centres to carry out dissemination and educational programmes that promote regional peace and security and that are aimed at changing basic attitudes with respect to peace and security and disarmament so as to support the achievement of the purposes and principles of the United Nations;
	(A/C.1/77/L.9, Para 4) Appeals to Member States in each region that are able to do so, as well as to international governmental and non- governmental organizations and foundations, to make voluntary contributions to the regional centres in their respective regions in order to strengthen their activities and initiatives;
	(A/C.1/77/L.9, Para 6) Requests the Secretary-General to provide all support necessary, within existing resources, to the regional centres in carrying out their programmes of activities;
	(A/C.1/77/L.9, Para 7) Decides to include in the provisional agenda of its seventy-eighth session, under the item entitled "Review and implementation of the Concluding Document of the Twelfth Special Session of the General Assembly", the sub-item entitled "United Nations regional centres for peace and disarmament".
	Chemical and Biological Weapons
	(A/C.1/77/L.11, Para 1) Takes note of the note by the Secretary-General;
Chemical Weapons	(A/C.1/77/L.11, Para 2) Renews its previous call to all States to observe strictly the principles and objectives of the Protocol for the Prohibition of the Use in War of Asphyxiating, Poisonous or Other Gases, and of Bacteriological Methods of Warfare, and reaffirms the vital necessity of upholding its provisions;
	(A/C.1/77/L.11, Para 3) Calls upon those States that continue to maintain reservations to the 1925 Geneva Protocol to withdraw them;
	(A/C.1/77/L.11, Para 4) Requests the Secretary-General to submit to the General Assembly at its seventy-ninth session a report on the implementation of the present resolution.

Biological Weapons	 (A/C.1/77/L.11, Para 1) Takes note of the note by the Secretary-General; (A/C.1/77/L.11, Para 2) Renews its previous call to all States to observe strictly the principles and objectives of the Protocol for the Prohibition of the Use in War of Asphyxiating, Poisonous or Other Gases, and of Bacteriological Methods of Warfare, and reaffirms the vital necessity of upholding its provisions; (A/C.1/77/L.11, Para 3) Calls upon those States that continue to maintain reservations to the 1925 Geneva Protocol to withdraw them; (A/C.1/77/L.11, Para 4) Requests the Secretary-General to submit to the General Assembly at its seventy-ninth session a report on the implementation of the present resolution. 	
Nonproliferation		
Nonproliferation and Noncompliance	(A/C.1/77/L.8, Para 6) Requests the States parties to the relevant instruments on weapons of mass destruction to consult and cooperate among themselves in resolving their concerns with regard to cases of non-compliance as well as on implementation, in accordance with the procedures defined in those instruments, and to refrain from resorting or threatening to resort to unilateral actions or directing unverified non- compliance accusations against one another to resolve their concerns;	
	Non-Proliferation Treaty Related	
Disarmament Through the NPT	 (A/C.1/77/L.7, Para 2) Calls for urgent compliance with the legal obligations and the fulfilment of the commitments undertaken on nuclear disarmament; (A/C.1/77/L.8, Para 4) Underlines the importance of preserving the existing agreements on arms regulation and disarmament and the multilateral disarmament forums, which constitute an expression of the results of international cooperation and multilateral negotiations in response to the challenges facing humankind; 	