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**Documentation of the Work of the Non-Proliferation Treaty Review
Conference (NPT RevCon)**

Non-Proliferation Treaty Review Conference (NPT RevCon)

Committee Staff

Director	Lauren Shaw
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Agenda

- I. Advancing Technical Cooperation in the Peaceful Use of Nuclear Energy
- II. Article X and Measures to Address Withdrawal from the NPT
- III. Denuclearization of the Korean Peninsula

Report Segments adopted by the Committee

Code	Topic	Vote
NPT/1/1	Enhancing the access to nuclear materials for peaceful purposes through the Nuclear Bank Network	109 votes in favor, 3 votes against, 15 abstentions
NPT/1/2	Peaceful uses initiative for multinational development of new generation nuclear reactors	Adopted without a vote
NPT/1/3	Improving international cooperation on decreasing nuclear waste and its hazards	100 votes in favor, 12 votes against, 25 abstentions
NPT/1/4	Technical cooperation for the safety and security of nuclear materials	110 votes in favor, 3 votes against, 25 abstentions
NPT/1/5	The peaceful uses of nuclear energy: fostering sustainable development	Adopted without a vote
NPT/1/6	Advancing information sharing, education and multilateral cooperation to facilitate technical development	115 votes in favor, 3 votes against, 10 abstentions
NPT/1/7	Crisis management: prevention and response	120 votes in favor, 2 votes against, 15 abstentions

Summary Report

The Non-Proliferation Treaty Review Conference (NPT RevCon) held its annual session to consider the following agenda items:

- I. Advancing Technical Cooperation in the Peaceful Use of Nuclear Energy
- II. Article X and Measures to Address Withdrawal from the NPT
- III. Denuclearization of the Korean Peninsula

The session was attended by representatives of 151 States Parties to the Treaty on the Non-Proliferation of Nuclear Weapons. On Sunday, the committee adopted the agenda of I, III, II, beginning the consideration of the topic “Advancing Technical Cooperation in the Peaceful Use of Nuclear Energy.”

By Tuesday, the Dais received a total of 16 proposals addressing a wide range of sub-topics, including advancing technical cooperation between developing and developed States Parties, promoting the implementation of International Atomic Energy Agency’s safeguards and fostering research into Generation IV nuclear reactors. In addition, several delegations discussed measures to enhance the security of nuclear waste transport and disposal. Reflecting an atmosphere of mutual cooperation, States Parties unremittently worked on identifying complementary themes between the different working groups, which resulted in the merger of several working papers by Tuesday evening.

On Wednesday, seven draft report segments had been approved by the Dais, two of which had amendments. The committee adopted seven report segments, five by a two-thirds majority vote and two report segments which received unanimous support. The report segments represented a wide range of issues, including the facilitation of States Parties’ access to nuclear energy, as well as monitoring the sharing of nuclear technologies between developed and developing countries. The diligent work of the NPT RevCon highlighted the various aspects of technical cooperation in the peaceful uses of nuclear energy and identified a range of innovative forms to foster international collaboration in this field.



National Model United Nations • NY

Code: NPT/R/1

Committee: Review Conference of the Parties to the Treaty on the Nonproliferation of Nuclear Weapons

Topic: Advancing Technical Cooperation in the Peaceful Use of Nuclear Energy

1 **I. Introduction**

3 **A. Enhancing the access to nuclear materials for peaceful purposes through the Nuclear Bank Network**

- 5 1. The 69th session of the United Nations (UN) General Assembly (GA) adopted resolution A/RES/69/225 (2014)
6 which stressed the need to promote new and renewable sources of energy, including nuclear energy. The 2014
7 Climate Summit also finalized a new agreement under the UN Framework Convention on Climate Change
8 (UNFCCC) which recognized the importance of reducing carbon emissions and supporting scientific
9 cooperation on alternative energy. Nuclear energy is a plausible solution to this issue because it is not only
10 greenhouse neutral but also more abundant and cost efficient than other forms of energy. In France, for instance,
11 75 percent of the electricity production is generated by nuclear energy. Accordingly, the amount of France's
12 carbon dioxide emissions is almost 1/15 to that of the United States with a fifth of the population, and is one of
13 the lowest among the Member States of the Organization for Economic Co-operation and Development
14 (OECD). Nuclear energy can also bring various socioeconomic benefits to other innumerable fields owing to
15 nuclear research, including industry, crime detection, pest control and animal breeding. For instance, nuclear
16 technology in conjunction with related bio-technologies can be used to study nutrient levels within animals,
17 onset of sexual maturity, and the diagnosis of potentially fatal illnesses. With this information, scientists can
18 improve livestock breeding conditions and produce sustainable increases in livestock birthrates.
19
- 20 2. Unfortunately, there is a major obstacle to reaping these benefits of nuclear energy: the imbalance of nuclear
21 technology and resources between states. Not all States Parties currently have access to nuclear technology or
22 the resources required to develop it. According to UN-Energy, approximately 30 percent of people in
23 developing states do not have access to electricity and three billion people around the world are relying on solid
24 fuel for cooking. Moreover, according to International Atomic Energy Agency (IAEA) statistics, only 31 states
25 are officially registered as having commercial nuclear reactors.
26
- 27 3. Many international agreements and resolutions reaffirm this right to research, produce, and use nuclear energy
28 for peaceful purposes. Article IV of the Treaty on Non-Proliferation of Nuclear Weapons (NPT) states that
29 "nothing in this treaty shall be interpreted as affecting the inalienable right of all States Parties to develop
30 research, production and use of nuclear energy for peaceful purposes." Security Council resolution 1887 (2009)
31 also noted that removing barriers to access nuclear technologies and engaging in greater cooperation to support
32 peaceful nuclear development is crucial to the socioeconomic development of Member States. Article IV of the
33 NPT is especially important as it also calls upon all parties to the treaty to facilitate the "fullest possible
34 exchange of equipment, materials and scientific and technological information" on peaceful uses of nuclear
35 energy.
36
- 37 4. Several approaches have been taken to address this issue. One is the IAEA Technical Cooperation (TC)
38 Programme. The TC Programme is the main mechanism through which the IAEA delivers services to its
39 Member States to help them build, strengthen and maintain capacities in the safe and peaceful use of nuclear
40 technology. The strategic goal of the TC Programme is to promote tangible socioeconomic impact in IAEA
41 Member States by contributing in a cost-effective way to the achievement of the major sustainable priorities of
42 each State. All Member States are eligible for support although TC Programme activities usually focus on the
43 needs and priorities of less developed countries.
44
- 45 5. The IAEA Country Programme Framework (CPF) identifies points of interest and priority development needs
46 for IAEA-supported technical cooperation activities. A CPF includes national development needs and analysis,
47 plans to incorporate lessons learned, and takes into account each state's UN Development Assistance
48 Framework.
49

- 50 6. A further element is the IAEA Global Nuclear Safety and Security Network (GNSSN) which was initially
51 developed in 2007 by the IAEA and the Group of Eight (G8) Nuclear and Security Group. The GNSSN is a key
52 element of the Global Nuclear Safety and Security Framework (GNSSF) that focuses on sharing knowledge and
53 services on nuclear safety and security. The GNSSN was established to promote and enhance the nuclear safety
54 and security framework by coordinating activities of global and regional safety and security networks.
55
- 56 7. An additional group that deals with the safety of nuclear materials to and from supplier states with a focus on
57 low enriched uranium (LEU) is the Nuclear Suppliers Group (NSG). It is a group of nuclear supplier states that
58 strives to contribute to the non-proliferation of nuclear weapons through the implementation of NSG Guidelines
59 for nuclear exports and nuclear-related exports. The NSG Guidelines are consistent with various international
60 binding agreements on non-proliferation of nuclear weapons including the NPT and the South Pacific Nuclear-
61 Weapons-Free Zone Treaty.
62
- 63 8. The IAEA's main instruments to limit nuclear proliferation are the Safeguards Agreements. They are control
64 mechanisms coordinated by the IAEA to verify that states are adhering to their international commitments not
65 to develop nuclear weapons. Their functions include confidence-building, an early warning mechanism, and the
66 trigger that instigates the international community to respond to violations. In addition to this essential element
67 of the non-proliferation arsenal, the Treaty on Non-Proliferation of Nuclear Weapons Review Conference (NPT
68 RevCon) would like to underline the work done by both the NPT and the Revised Supplementary Agreement
69 Concerning the Provision of Technical Assistance (RSA) by the IAEA.
70
- 71 9. International nuclear fuel banks have been presented as a potential solution for promoting equal access to
72 nuclear materials for peaceful purposes. The funding required for setting up the international nuclear fuel banks
73 is in the final stage owing to the financial support of the Nuclear Threat Initiative (NTI), which pledged 50
74 million USD in 2006 to help create a low-enriched uranium (LEU) stockpile, and more than 100 million USD in
75 contributions from the United States of America, the European Union, the United Arab Emirates, the Kingdom
76 of Norway, and the State of Kuwait. The NPT RevCon would like to highlight the fact that if more Member
77 States have access to nuclear power, the market for nuclear fuel would be enlarged which would be beneficial to
78 supplier states.
79
- 80 10. Furthermore, the UN Institute for Disarmament Research (UNIDIR) recommended the establishment of
81 international nuclear fuel banks as a measure that would contribute to the multilateralization of the nuclear fuel
82 cycle in the report named "Multilateralization of the Nuclear Fuel Cycle: Assessing the Existing Proposals".
83 UNIDIR is an independent, voluntarily funded, autonomous institute within the UN charged with generating
84 ideas and promoting disarmament.
85

86 **B. Peaceful Uses Initiative for Multinational Development of New Generation Nuclear Reactors**

87

- 88 11. The NPT RevCon recognizes the right of Member States to develop nuclear energy for peaceful purposes as
89 provided for in Article IV of the NPT, as well as the right of States Parties to define the proportion of nuclear
90 energy in their national energy mix.
91
- 92 12. The NPT RevCon fully supports the objectives of Millennium Development Goals (MDGs) and the
93 forthcoming Sustainable Development Goals (SDGs), which recognize the need for the continued development
94 of sustainable energy sources for the benefit of the international community, and identifies nuclear energy as a
95 potential alternative energy source.
96
- 97 13. The development of renewable energy sources, which is any source of energy that does not depend on an
98 exhaustible natural resource, is one of the greatest challenges for the international community in the post-2015
99 development framework.
100
- 101 14. The NPT RevCon is deeply concerned by safety and security of nuclear power plants, especially after the
102 disaster at Fukushima Daiichi nuclear power plant in Japan in April 2011 and other similar accidents with
103 catastrophic consequences.
104

- 105 15. The IAEA Convention on Nuclear Safety (1994) addresses the implementation of safety standards in nuclear
106 power plants in order to ensure international security. Simultaneously, General Assembly resolution
107 A/RES/32/50 (1977) and Security Council resolution 1747 (2007) highlight the importance of international
108 cooperation to ensure that peaceful nuclear technological development adheres to the guidelines and standards
109 set by the IAEA.
110
- 111 16. The TC Programme is the primary structure through which the IAEA supports States Parties in nuclear
112 research, construction of facilities, and dissemination of nuclear technology and resources.
113
- 114 17. Furthermore, the TC Programme strongly focuses on increasing socio-economic opportunities for developing
115 states by providing expertise, technology, and information for projects in the field of nuclear energy.
116
- 117 18. Currently, the TC Programme is funded through direct voluntary contributions from States Parties and from
118 payments of National Participation costs for information and technology received from the program.
119
- 120 19. The recent Peaceful Uses Initiative (PUI) has created a proactive environment for the TC Programme to explore
121 new opportunities for funding underdeveloped nuclear technology oriented projects. The PUI raises
122 “extrabudgetary contributions” for “thematic packages” in accordance with the IAEA Medium Term Strategy
123 Plan for 2012-2017 that include: the facilitation of access to nuclear power; the promotion of nuclear science,
124 technology, and applications; the improvement of nuclear safety and security; the provision of effective
125 technical cooperation; the efficacy in strengthening the Agency’s safeguards and other verification activities;
126 and the provision of efficient, innovative management and strategic planning. The updated IAEA Nuclear
127 Security Plan for 2014-2017, funded through voluntary contributions, sets out techniques to aid in the
128 achievement of nuclear security with a particular focus on the contributions of education and coordinated
129 research and the need for continued and expanded efforts in these fields.
130
- 131 20. Specific examples of potential “thematic packages” include, but are not limited to, the construction of multi-
132 national power plants (MPP’s) and new generation reactors including generation IV reactors and nuclear fusion.
133 All future specific implementations of “thematic packages” should follow the model established by the reactor
134 program.
135
- 136 21. The growth of the IAEA’s TC Programme and its capability to provide critical information and technology
137 research have been severely hampered by a shortage of funding. This lack of funding was highlighted by a 2014
138 report by the Stimson Global Security Research Center as one of the two largest challenges facing the IAEA
139 and its programs.
140
- 141 a. The 2011-PUI-NE-23-NFCMS (Rev. 23 Nov. 2012) report shows the need for increased funding in the
142 development of sustainable uranium mining, which must continue if nuclear technology is to be
143 advanced. In this example, even mines in developed states, such as Australia, faced increased restraints
144 on local funding. Sustainable processing operations can help limit pollution, benefitting all States
145 Parties.
146
- 147 b. In 2014, IAEA Director General Yukiya Amano, in an address to a news conference, highlighted the
148 shortage of resources within the IAEA as responsible for hampered efforts to implement safety and
149 security measures for States Parties.
150
- 151 c. In recent years, projects funded by the PUI have contributed to enhancing living conditions and health
152 in developing and developed states. By increasing the budget for the PUI more of these projects can be
153 launched, increasing the capability of preventing fatal diseases and, by this, reducing the impact on
154 society and economy (e.g. the early diagnosis of Ebola Virus Disease as already proposed under TC
155 PROJECT RAF/0/042).
156
- 157 22. The current concern of developed states, such as the states of the European Union, is to provide further funding
158 for technological advancements for global clean energy and the safe use of nuclear energy. The financial and
159 informational capacities of developed nations places these countries in the critical role of leading international
160 efforts to advance nuclear power. Increased funding for the TC Programme also benefits developed states by

161 increasing the understanding of nuclear technology, leading to not only increased potential peaceful uses for
162 states, but also a heightened ability to create and enforce global safety and security standards through the IAEA
163 and its programs.
164

- 165 23. The research activities of some of the States Parties in the field of new generation reactors are highly
166 commendable, in particular Generation IV Nuclear Reactors using new technologies allowing for a safer mode
167 of operation of nuclear plants and a lower risk of accidents. Ascribed in the previous paragraphs, researching
168 safer and more efficient ways of producing nuclear energy. This is one of the main focuses of the PUI.
169
- 170 24. The Generation IV International Forum (GIF) Charter was extended indefinitely in 2014, which renders its goal
171 of providing environmental sustainability and cost-efficient electricity more realizable.
172
- 173 25. Generation IV Nuclear Reactors are reactors that are currently being researched. The reactor types that are
174 considered in the development are gas-cooled fast reactors, lead-cooled fast reactors, molten salt reactors,
175 sodium cooled reactors, supercritical water-cooled reactors, and the very high-temperature gas reactors. These
176 reactors provide increased sustainability, competitive economics, high level of safety, increased proliferation
177 resistance, and the ability to cogenerate high-grade heat for use in industrial processes. Apart from being more
178 innovative than Generation II and III reactors that are widely used today, Generation IV Nuclear Reactors are
179 cleaner, safer, and more cost-effective. The Generation IV reactors are sustainable and significantly more
180 secure.
181
- 182 26. The NPT RevCon recognizes nuclear fusion as a potentially significant source of energy in the future since it
183 can constitute a self-sustaining, renewable, clean and safe power generating mechanism. Nuclear fusion releases
184 energy by fusing isotopes of hydrogen, deuterium and tritium, which is converted subsequently via a
185 conventional steam cycle into electricity. Deuterium and tritium replace uranium. The by-products, which
186 include helium-4 and water, help to remove the issue of radioactive waste disposal and to reduce the risk of
187 proliferation of nuclear weapons.
188
- 189 27. The NPT RevCon praises the existing programs involved in nuclear fusion research such as the International
190 Thermonuclear Experimental Reactor (ITER) in Caradache, France sponsored by the European Union, China,
191 India, Japan, South Korea, Russia and the United States, the National Ignition Facility in Livermore, US, and
192 Wendelstein 7-X in Max-Planck-Institute, Germany.
193
- 194 28. It is important to fully understand the definitions of low-enriched uranium (LEU) and highly enriched uranium
195 (HEU), as well as their role in the production and development of nuclear energy. Firstly, enriched uranium is a
196 type of uranium in which the percent composition of uranium-235 has been increased through the process of
197 isotope separation. LEU has a lower than 20 percent concentration of ²³⁵U and can only be used for peaceful
198 purposes. The NPT RevCon recognizes that this concentration is not enough to create a nuclear weapon. On the
199 other side, HEU has a 20 percent or higher concentration of ²³⁵U.
200
- 201 29. Furthermore, all States Parties to the treaty can profit from socio-economic benefits as a result of cost-efficient,
202 clean energy provided through nuclear advancement. These benefits enable both developed and less-developed
203 nations to continue contributions to the TC Programme and PUI for future development, research, and
204 implementation.
205
- 206 30. As with any issue concerning funding and technological information regarding nuclear energy, strict oversight
207 of funding use and technology use is necessary to prevent abuse of knowledge and promote the further peaceful
208 use of nuclear energy.
209
- 210 31. The development of new generation reactors requires additional funding. The future and current projects such as
211 ITER, or MPPs are examples of such projects.
212

213 **C. Improving International Cooperation on Decreasing Nuclear Waste and its Hazards** 214

- 215 32. In 1980, the IAEA sponsored the International Nuclear Fuel Cycle Evaluation (INFCE), and the benefits of
216 secure waste management and disposal were highlighted. The United Nation Environment Programme (UNEP)

217 Agenda 21 has included safe and environmentally sound management of radioactive waste as part of their
218 activities, since radioactive waste is inevitable when using nuclear energy. These all indicate that waste
219 management should be considered as important when developing peaceful use of nuclear energy.
220

221 33. The NPT RevCon acknowledges the Final Document of the 2010 NPT RevCon, especially clauses regarding
222 Article IV of the NPT and the preambular paragraphs 6 and 7 which mention the state’s ability to research on
223 the use of nuclear energy for peaceful purposes. Nuclear energy was an integral part of the MDGs and may
224 contribute to the successful implementation of the SDGs in integrating the principle of sustainable development
225 into domestic policies and programs.
226

227 34. The IAEA established the TC Programme to deliver services to its Member States. Through this program, the
228 IAEA helps countries to build, strengthen, and maintain capacities in peaceful use of nuclear technology. The
229 program focuses on applying nuclear energy to different aspects and nuclear security and safety.
230

231 35. As long as electricity is generated through the use of nuclear energy, the amount of nuclear waste is notable. In
232 order to decrease this amount, current technologies should be revised and new technologies should be
233 researched and introduced. Due to major technological advances, international information sharing is needed.
234

235 36. The IAEA is working on three programs important for information sharing. First, Coordinated Research
236 Projects (CRP), which organizes international research work to achieve specific research objectives consistent
237 with the IAEA program. Second, the International Low Level Waste Disposal Network (DISPONET), a
238 network improving international practice and approaches in managing low and intermediate level waste. Third,
239 Underground Research Facilities Network (URF Network), a regime for training and demonstration of waste
240 disposal technologies and sharing of knowledge. These three programs all provide Member States and research
241 organizations with nuclear waste knowledge and technology. All of the results are published so that every
242 country has access to them.
243

244 37. The IAEA is providing technical expertise to NPT State Parties by sending security officers and by hosting the
245 58th General Conference of the Scientific Forum on “Radioactive Waste: Meeting the Challenge – Science and
246 Technology for Safe and Sustainable Solutions.” The Forum discussed nuclear waste disposal solutions
247 concerning storage, safety, and better material.
248

249 38. The State Parties to the NPT seek to impart the potential hazards arising from incautious nuclear material
250 management affecting both the society and the environment. International cooperation on the prevention of
251 accidents and the consequences of natural catastrophes with harmful effects of ionizing radiation is vital in
252 order to protect future generations. Therefore, events such as the Fukushima nuclear accident demonstrate the
253 necessity for a universal high standard of safety in handling and storage.
254

255 39. The NPT RevCon highlights the importance of safe and environmentally sound transport of nuclear waste by
256 recalling the Joint Convention on the Safety of Spent Fuel Management and on the Safety of Radioactive Waste
257 Management (1997), applying to spent fuel and radioactive waste when such materials are transferred
258 permanently to and managed within exclusively civilian programs, or when declared as spent fuel or radioactive
259 waste for the purpose of the Convention by the Contracting Party.
260

261 40. Noting the “Regulations for the Safe Transport of Radioactive Material” of 2012 set forth by IAEA which
262 introduces detailed safety requirements for the transport of nuclear material such as nuclear waste. The
263 guidelines refer to transport in the air, on land and water, and this document address governments, operators of
264 nuclear facilities, nuclear waste carriers, users of radiation sources and cargo managing staff.
265

266 41. The NPT RevCon welcomes with great enthusiasm the research undertaken at the University of Manchester on
267 microbial degradation of some nuclear wastes. This research has demonstrated the ability for some
268 oxygenophilic bacteria to survive in hostile environment with high levels of radiation, and it also demonstrates
269 the ability to decompose highly alkaline material of the same nature as most radioactive waste.
270

271 42. The NPT RevCon hopes to increase the numbers of Member States which develop and use different means of
272 reprocessing nuclear material, such as PUREX. This technology uses chemical reactions to isolate Uranium

273 with the highest number of valence electrons, therefore reducing drastically the radioactive level of the residual
274 wastes, and allowing the utilization of the resulting enriched Uranium to fuel nuclear facilities. Even though
275 reprocessing technologies are effective ways of reducing the radiation risks related to the storage and disposal
276 of nuclear wastes, the NPT RevCon reminds the Member States that those facilities have a potential risk to be
277 misused to produce military- grade uranium. Therefore, the NPT RevCon must consider a country's conditions
278 when deciding whether or not to provide technical assistance.

- 279
- 280 43. Since nuclear energy generated by Uranium fission has been criticized for the potential risk of misusing the
281 element for the purpose of building weapons and of causing nuclear catastrophes, new technologies need to be
282 invented and implemented as quickly as possible. The Thorium technology considers all relevant critiques.
283 Thorium-based nuclear power is more efficient and safer because the technology provides meltdown-proofed
284 reactors and makes it impossible to build nuclear bombs with side products of the energy generating process.
285 There has been discovered sizable resources of Thorium all over the globe which can cover the worldwide
286 energy consumption at the current level for at least 600 years. Further the innovation provides solutions on
287 nuclear waste management due to its smaller problematic waste streams.
- 288
- 289 44. Emphasizing the education and training of nuclear plant personnel, nuclear scientists and security officers is a
290 major sub-section of international information sharing. In this regard, the IAEA Technical Cooperation Program
291 provides a suitable framework for human resources, bilateral and multilateral cooperation networks and
292 provision of equipment. The focus on global information exchange is underlined by the Program's approaches
293 on an international, interregional, regional and national level.
- 294
- 295 45. Reprocessing nuclear material addresses the issue of water scarcity, as reprocessed nuclear waste can be used
296 for water desalinization. Water desalinization is an energy-intensive process, and according to the World
297 Nuclear Association, used fuel has been recovered to close fuel cycles, gaining about 25-30 percent more
298 energy from it.
- 299

300 **D. Technical Cooperation for the Safety and Security of Nuclear Materials**

- 301
- 302 46. The NPT RevCon welcomes the commencement of the 2015 NPT RevCon as momentum for discussion
303 regarding technical cooperation for the peaceful use of nuclear energy from the 2010 Treaty on the Non-
304 Proliferation of Nuclear Weapons Review Conference.
- 305
- 306 47. The NPT RevCon notes the success of National Nuclear Security Administration's (NNSA), Global Threat
307 Reduction Initiative, (GTRI) that worked to convert the Maria Research Reactor in Warsaw from high-enriched
308 uranium (HEU) to low-enriched uranium (LEU), with an effort to continue implementing Security Council
309 resolution 1540 (2004), as unnecessary high enriched uranium increases the risk of proliferation to non-state
310 actors.
- 311
- 312 48. The NPT RevCon is fully alarmed by the internationally defined weapon grade-level enriched uranium of 90
313 percent. The NPT RevCon notes that States Parties use a universal definition and therefore, the definition
314 should be more compliant with regards to the security aspect of weapon grade-level.
- 315
- 316 49. The NPT RevCon recognizes the importance of safeguards, specifically the Model Additional Protocol, the
317 EU's Commission's Report (COM(2015)571), which focuses on the protection of fissile materials in regards to
318 protection from illicit trafficking to non-state actors, the Convention of the Physical Protection of Nuclear
319 Material (CPPNM), in addition to the IAEA and the General Conference resolution GC(57)/RES/9 (2013), in
320 relation to international safety and security. Strict compliance by all States Parties to all safeguards is necessary
321 to guarantee the highest levels of non-proliferation and security of peaceful nuclear programs.
- 322
- 323 50. The NPT RevCon is cognizant of the fact that States are using 50 percent HEU or more enrichment for peaceful
324 purposes; however to create a nuclear weapon, a significantly shorter time period is needed once reaching 50
325 percent enrichment, compared to the time needed to obtain weapon grade uranium from lower levels of uranium
326 enrichment. The NPT RevCon further recognizes 80 percent as another important threshold in the process of
327 enriching uranium and emerging threat to security in nuclear matters, given the fact that nuclear technology,
328 such as the weapon used in Hiroshima on August 6th, 1945, was based on 80 percent HEU.

- 329
330 51. The NPT RevCon recognize the importance of the Model Additional Protocol, which is designed for States
331 Parties that already have existing Safeguard Agreements with the IAEA to strengthen and improve the
332 effectiveness of the safeguard system as a contribution to the global non-proliferation objectives, which in
333 return can enhance the security of nuclear material transportation.
334
335 52. The NPT RevCon notes the lack of universal coding system regarding nuclear material. The NPT RevCon
336 expresses concern over nuclear materials that have gone missing and the lack of ability to track the material
337 back to the state where the material was last located.
338
339 53. The NPT RevCon recognizes the important work that the World Customs Organization's (WCO) Harmonized
340 System (HS) plays in the realm of chemicals and their precursors with regarding to tracing the transportation of
341 these materials.
342
343 54. The NPT RevCon recognizes the increasing threat of attacks by non-state actors utilizing nuclear material. The
344 NPT RevCon commends the successes of the Global Initiative to Combat Nuclear Terrorism, a joint effort by
345 the United States and Russia to strengthen global capacity to prevent, detect, and respond to nuclear terrorism
346 through multilateral programs.
347
348 55. Further, the body acknowledges the lack of a tracking system of nuclear material, and is concerned with the
349 illicit trafficking of nuclear materials by non-state actors, specifically noting the recent events of the Islamic
350 State in its acquisition of low enriched uranium. The NPT RevCon notes that cooperation between States
351 Parties IAEA is necessary to verify that nuclear material is not diverted to the construction of nuclear weapons
352 or any other nuclear device, in order to ensure that higher levels of security are established and maintained.
353
354 56. The NPT RevCon encourages States Parties to take into account the potential risk of dual use goods pose in the
355 international community, especially regarding the materials described in the Zangger Committees Trigger List.
356 The NPT RevCon recognizes that through the emergence of nuclear technologies and energy, the international
357 community must remain committed to ensuring the security of the transportation of these materials. With the
358 already existing Nuclear Suppliers Group Guidelines as well as the current Trigger List provided by the
359 Zangger Committee, the facilitation and development of nuclear material trade must remain consistent
360 throughout the international community, and serve as a best practice for trade and transportation.
361
362 57. The NPT RevCon notes the success of the Vienna Convention on the Law of Treaties, specifically noting the
363 establishment of good faith between States Parties, which demonstrates that States Parties can work together
364 regarding international solutions with honesty and fairness.
365
366 58. The NPT RevCon notes the importance of dialogue and transparency between States Parties when utilizing
367 Cooperation existing trade regimes. Further, the NPT RevCon commends the United States of America's 123
368 Agreements for Peaceful as it is a strict agreement best practice example for the transfer of nuclear material,
369 equipment and technologies, in which States Parties must adhere to specific nuclear non-proliferation norms in
370 order to engage in nuclear material trade and transportation.
371
372 59. The NPT RevCon notes the Yamoussoukro Consensus on South-South Cooperation as it relates to the necessity
373 for developing States to work together towards development. The NPT RevCon recognizes that South-South
374 Cooperation stands as a complement to North-South Cooperation, not as a replacement to.
375

376 **E. The Peaceful Uses of Nuclear Energy: Fostering Sustainable Development**
377

- 378 60. The NPT RevCon recall Article IV of the NPT and recognize the importance of information exchange and
379 technical cooperation to enhance the peaceful use of nuclear energy, emphasizing in particular the need of the
380 developing world. The NPT RevCon also recognizes and respects state sovereignty as stated in Article 2.1 of
381 the Charter of the UN.
382

- 383 61. Furthermore, the NPT RevCon supports the draft SDGs, specifically the sixteenth and seventeenth, which
384 encourages global partnership in regards to sustainable development. This demonstrates the connection between
385 sustainable development and access to knowledge of technology as a global priority for the 2015 NPT RevCon.
386
- 387 62. The NPT RevCon recognize also the role played by developed States in partnering with the global south and
388 regional organizations for physical and intellectual capacity building to promote confidence and increasing the
389 level of transparency between the two through the utilization of nuclear energy technology.
390
- 391 63. The NPT RevCon highlights the current and past work of the IAEA to increase access to nuclear technology,
392 especially, through the TC Programme and the Technical Cooperation Fund, which has provided capacity
393 building, in the form of training and equipment to developing states.
394
- 395 64. The NPT RevCon commends the annual budget reports provided by the IAEA that are provided to all Member
396 States as this contributes to transparency in its programs and boosts confidence in the IAEA.
397
- 398 65. The NPT RevCon acknowledges the negative stigma associated with nuclear energy development, such as the
399 safety and security of nuclear facilities, the proliferation of nuclear material that could be utilized by non-state
400 actors and the risks associated with the improper use of nuclear energy and technology. However developing
401 countries view nuclear energy as a significant contributor to sustainable development in the safe uses of nuclear
402 technology. By introducing nuclear energy to developing countries this opens the gateway for the utilization of
403 more research and understanding of other nuclear technology fields such as agriculture, water, and health.
404
- 405 66. The NPT RevCon understands that nuclear energy is necessary for the development of nuclear technology such
406 as power generation infrastructure, agricultural mechanisms, advancement of nuclear based medicine, and water
407 resource management. The NPT RevCon sees the lack of nuclear health and medicine programs in the
408 developing world in contrast with the high demand in these regions for these services especially with the high
409 prevalence of infectious and non-infectious diseases.
410
- 411 67. The NPT RevCon deplores the devastation and despair that can be wrought by the abuse by non-state actors of
412 nuclear technology. The NPT RevCon calls attention to the outcomes of previous NPT RevCons, in particular
413 paragraph 36 and 38 of the Final Document of the 2010 NPT RevCon. The NPT RevCon believes the 2015
414 NPT RevCon highlights the importance of the universality of the NPT and the need for all States Parties to
415 accept IAEA safeguards.
416
- 417 68. The States Parties are deeply alarmed and concerned by General Assembly resolution A/RES/65/151 (2010),
418 which clarifies that 1.5 billion people in the world are still without access to electricity, let alone sustainable
419 energy, despite advancements in the recent age.
420
- 421 69. The NPT RevCon expresses its deep concern an estimated 30 percent of the world population will lack access to
422 clean water by 2025, and reiterates its willingness to pursue nuclear energy-based solutions to achieve water
423 security. The NPT RevCon further acknowledges past IAEA successes in desalination technology through
424 linking reverse osmosis desalination plants to existing nuclear energy reactors and is heartened by IAEA
425 economic analyses showing that nuclear desalination projects can reduce the cost of a nation's potable water
426 distribution by as much as 7 percent.
427
- 428 70. The NPT RevCon notes the IAEA 2014 Climate Change and Nuclear Power report that recalls the role of
429 nuclear power in reducing local and regional air pollution, the Conference underlines the importance played by
430 nuclear energy in reducing local and regional air pollution and assisting in the fight against climate change.
431
- 432 71. The NPT RevCon calls attention to the fact that the World Bank analyzes the ability of states to invest in
433 sustainable energy and produces reports to this effect, clearly stating which nations are ready to invest in and
434 effectively utilize nuclear energy.
435
- 436 72. The States Parties view with appreciation the work of the International Institute for Educational Planning and
437 acknowledge and desire to utilize its pivotal role in capacity-building in developing countries. In particular,
438 States Parties must pay tribute to their Advanced Training Program directed at officials from developing States

439 and aimed at strengthening skills and competencies in using educational planning and management techniques
440 and tools, including information systems and fostering the participants' personal and professional development
441 through the acquisition or reinforcement of generic competencies and abilities.
442

443 **F. Advancing Information Sharing, Education, and Multilateral Cooperation to Facilitate Technical** 444 **Development** 445

- 446 73. The NPT aims to provide “support for research, development and other efforts to further the application, within
447 the framework of the IAEA safeguards system, of the principle of safeguarding effectively the flow of source
448 and special fissionable materials by use of instruments and other techniques at certain strategic points.”
449
- 450 74. The NPT uses its three pillars of disarmament, non-proliferation, and the promotion of peaceful uses of nuclear
451 infrastructure. The NPT works with the IAEA to set forth and/or fulfill the mandates and universalization of the
452 NPT.
453
- 454 75. The NPT recognizes the attempts and efforts of the 2010 NPT RevCon. The Conference recalls Article 43 of the
455 Final Document of the 2010 NPT RevCon, recognizing the importance of regional cooperative arrangements for
456 the promotion of the peaceful use of nuclear energy.
457
- 458 76. The legal framework would operate upon the belief that everything in this report should be respectful of state
459 sovereignty and hold no prejudice. Working through the UN charter, specifically Article II, Section I, the body
460 calls upon all non-members of the NPT in the region and abroad to adopt the NPT with these new enrichments.
461
- 462 77. The NPT RevCon reaffirms the content of Articles III, and IV, of the NPT but also understands the concerns
463 related to the sharing of nuclear technology. The Conference specifically highlights article III paragraph I and
464 article IV paragraph II of the NPT and continues to accept its importance regarding technical cooperation of
465 peaceful nuclear energy.
466
- 467 78. The IAEA has always recognized the importance of national sovereignty and that no other Member State has
468 the right to take natural resources such as uranium without consent.
469
- 470 79. The NPT RevCon echoes the sentiments of international organizations that wish to facilitate and promote
471 diffusion of peaceful nuclear technology to developing Member States, such as the OECD and World Nuclear
472 Association (WNA).
473
- 474 80. The NPT RevCon reiterates the importance of the Model Additional Protocol implemented by the IAEA Board
475 of Governors in 1997 and notes the challenges some non-nuclear weapons states have signing the protocol. In
476 order to increase fundamental trust and transparency between the IAEA regional nuclear energy commissions,
477 and all Member States involved are encouraged to seek and promote methods that allow more inclusive
478 allocation of resources.
479
- 480 81. Currently, the IAEA holds symposiums concerning international safeguards that happen regularly, however the
481 scope of these could be broadened for efficacy, including, but not limited, to, nuclear waste management. The
482 IAEA also sponsors Joint Training Programs, such as Co-operative Agreement for Arab States in Asia for
483 Research, Development and Training related to Nuclear Science and technology (ARASIA), which is an
484 original training program concerning isotope technology dealing with agriculture and marine environments.
485
- 486 82. Recognizing the success of the Nuclear Regulatory Commission in providing training and funding supporting
487 nuclear science, and related disciplines in order to create a capable workforce supporting the design,
488 construction, regulation, and operation of nuclear facilities and the safe handling of nuclear materials.
489
- 490 83. The conference seeks to establish collaboration between the IAEA and the International Renewable Energy
491 Agency (IRENA) in order to support technical Research and Development in the field of nuclear energy
492 production.
493

- 494 84. The UNGA has declared 2012 the international year of sustainable energy for all (SE4ALL), to increase
495 awareness for the importance of addressing energy issues. This declaration was the initiation process to begin
496 cooperation between SE4ALL and IRENA which aims to build a renewable energy framework in doubling the
497 rate of improvement of energy efficiency, and ensuring universal access to modern energy services and training.
498
- 499 85. The IAEA TC Programme brings together and trains experts for the purpose of helping member states start and
500 maintain nuclear programs, along with Site and External Events Design Review Service (SEED review service),
501 which helps with site selection, site evaluation review, hazard evaluation review, safety review for hazards,
502 environmental assessment and safety margin assessment. We would like to further use these services for the
503 expansion of agricultural, medical, and scientific applications, specifically toward the Middle East, but not
504 limited to that region. We may also turn attention to the Arab Atomic Energy Agency (AAEA) whose mission
505 is similar to that of the Technical Cooperation Programs, if applicable.
506
- 507 86. The NPT RevCon supports regional bodies, such as the African Network for Education in Science and
508 Technology (AFRA-NEST), which is affiliated with the IAEA and is composed of 34 African Member States,
509 the Asian Network for Education in Nuclear Technology (ANENT), which is also affiliated with the IAEA and
510 is composed of 19 Asian Member States and the Latin American Network for Education in Nuclear Technology
511 (LANENT), which is affiliated with the IAEA and is composed of 14 Latin American States.
512
- 513 87. Information sharing is crucial in the international community; this body recommends the implementation of the
514 IAEA Nuclear Fuel Cycle Information System, an international directory of civilian nuclear fuel cycle facilities.
515 The NFCIS gives the IAEA, Member States, and public users current, consistent, readily available information
516 on existing, closed, and planned nuclear fuel cycle facilities.
517
- 518 88. The NPT RevCon echoes the sentiments of the Security Council resolution 1886 (2009), which encourages
519 Member States to remove barriers to access of nuclear energy and seeks to create initiatives that promotes state-
520 to-state transparency and regional-state transparency in order to share meaningful nuclear information among
521 the states in a region or regions efficiently.
522
- 523 89. The NPT RevCon also recognizes the advantages of increasing transparency between nuclear policy makers,
524 and the security of nuclear documents by a prioritized organizational tier systems, which regulates the flow of
525 nuclear information from the IAEA nuclear regional commission, Member States involved, and independent
526 nuclear professionals/ inspectors and involve regional centralization, academic nuclear professionals, and the
527 general public/media for the development of an international partnership.
528
- 529 90. Recognizing the information providers and receivers of nuclear documentation as: The IAEA, Member States
530 involved, Regional Nuclear Energy Commissions and Organizations, facility operators, nuclear inspectors,
531 independent research institutions and the general public media.
532
- 533 91. Acknowledges General Assembly resolution A/RES/32/50 (1977) , highlighting a need for greater international
534 cooperation in the sharing of technology, Security Council resolution 1747 (2007) reinforcing the importance of
535 the NPT and Security Council resolution 1887 (2009) which encouraged states to remove barriers to accessing
536 technologies in order to foster greater cooperation.
537
- 538 92. The NPT RevCon reaffirms the need for educational awareness around the peaceful use of nuclear technology,
539 while recognizing the desire for emerging nations to incorporate nuclear technology may be impaired by a lack
540 of knowledge, education, and awareness. Furthermore, the NPT RevCon notes that the deficiencies in education
541 of those interacting with nuclear technologies can create local and international security concerns as well as
542 impair the efficient use of such technologies.
543
- 544 93. The NPT RevCon realizes the importance of using education as a tool through which awareness regarding the
545 benefits and drawbacks of nuclear energy can be raised. Therefore, educational programs to raise awareness
546 about the nuclear sector from both, the energy and weapons aspects, shall be initiated in order to equip
547 populations with the knowledge of using and developing such technologies.
548

- 549 94. The NPT RevCon recognizes that many developing nations are lacking the information that developed countries
550 have. The NPT RevCon appreciates that a high standard of technical education related to applications of nuclear
551 energy is imperative to the success of developing nations in their utilization of nuclear technologies. The body
552 recognizes that the deficiencies in education of those interacting with nuclear technologies can create local and
553 international security concerns as well as impair the efficient use of such technologies.
554
- 555 95. Acknowledges that the IAEA, as the main international organ for the promotion of safeguards and the
556 development of nuclear programs, has a great responsibility for the execution and the funding of them.
557 However, The Conference recognizes that there are doubts concerning the IAEA's budget allocation that
558 jeopardizes the transparency of the agency.
559
- 560 96. The conference notes that many emerging nations do not have the funds necessary to promote the education and
561 research necessary to advance technical education. The conference also brings attention to the issue that Non-
562 Governmental Organizations (NGOs), regional organizations (ROs), and elements of civil society are key
563 players in propagating nuclear education in such instance. The NPT RevCon appreciates the IAEA's existing
564 programs and their ability to educate technically concerning nuclear capacity building. In particular the Power
565 Reactor Information System (PRIS) database and the Technical Cooperation program Cycle (TPC) are both
566 valuable resources for states wishing to build their technical capacities.
567
- 568 97. The body recognizes the importance of educational and research facilities on the progress and transparency of
569 peaceful nuclear technology, such as Ghana's SNAS and NNRI. The SNAS is a Ghanaian university that
570 specializes in multiple disciplines of sciences including nuclear technology and training. The NNRI is the
571 facility in Ghana in which the scientists conduct research and work to create new nuclear technologies.
572 Transparency is created through these as the technology and information is shared with fellow nations from
573 these facilities.
574

575 **G. Crisis Management: Prevention and Response**

- 576
- 577 98. The NPT RevCon affirms the NPT as the cornerstone for cooperation towards the development of nuclear
578 technology for peaceful uses. The NPT RevCon draws attention to the critical role that the NPT plays in
579 furthering multilateral cooperation and preventing nuclear disasters.
580
- 581 99. The NPT RevCon welcomes States Parties' initiatives to increase technological cooperation for the peaceful use
582 of nuclear energy, particularly in the areas of nuclear transportation and emergency response. The NPT RevCon
583 recognizes the successful implementation of national and multilateral emergency preparedness programs that
584 formulate adequately educated and prepared teams to respond to emergency situations and prevent such crises
585
- 586 100. The NPT RevCon acknowledges that employing high levels of safety is an important prerequisite for States
587 operating land-based nuclear power plants, as outlined in the Convention on Nuclear Safety, in addition to
588 developing early warning systems specifically designed with regards to the potential of a nuclear disaster for
589 State's Parties. This is a responsibility of any state actively utilizing, or attempting to utilize, a sustainable
590 nuclear energy infrastructure.
591
- 592 101. The NPT RevCon recognizes the necessity for securing future cooperation between States Parties in order to
593 mitigate the serious threat posed by nuclear disasters. The NPT RevCon recalls that the 1986 Chernobyl crisis,
594 in Ukraine, required a new level of threat assessment for the nuclear age and recognize that recent events
595 including the 2011 nuclear disaster in Fukushima, Japan and the continued expansion of nuclear technologies
596 require a continued commitment to quick and efficient action.
597
- 598 102. The NPT RevCon reaffirms the crucial role of the IAEA Emergency Preparedness Review Service (EPREV) as
599 the primary method of evaluating the current state of nuclear emergency preparedness. Additionally, The NPT
600 RevCon recognizes the importance of the IAEA Response and Assistance Network to provide international
601 assistance after a nuclear emergency.
602
- 603 103. The NPT RevCon affirms the spirit of the IAEA's Incident and Emergency Centers (IEC) mission to enhance
604 the preparedness of States Parties for nuclear and radiological emergencies through their Incident and

Emergency System (IES). The NPT RevCon further supports the IAEA and its achievements in their 58th General Conference which endorsed the combined UN (UN) and IAEA efforts in the Action Plan on Nuclear Safety as well as the IAEA Peaceful Uses Initiative. The NPT RevCon welcomes States Parties' initiatives to increase technological cooperation for the peaceful use of nuclear energy, particularly in the areas of nuclear transportation and emergency response. The NPT RevCon recognizes the successful implementation of national and multilateral emergency preparedness programs that formulate adequately educated and prepared teams to respond to emergency situations and prevent such crises.

II. Mandate

104. The Review Conference of the Parties to the Treaty on the Non-Proliferation of Nuclear Weapons is responsible for reviewing and supporting the implementation of the treaty guided by its three pillars of disarmament, non-proliferation, and the peaceful uses of nuclear technology. In order to comply with this mandate, the Review Conference shall consider any questions or matters within the scope of the NPT, arriving at conclusions and making recommendations related to the implementation of the Treaty.

III. Conclusions and Recommendations

A. Enhancing the access to nuclear materials for peaceful purposes through the Nuclear Bank Network

105. The NPT RevCon recognizes the importance of ensuring complete effectiveness of Article IV in the NPT. In the current status quo, NPT RevCon also believes that due to financial and political issues, the Article IV of the NPT is not adhered to as only 31 Member States currently have a national nuclear program. Therefore it recommends the adoption of concrete measures to address this pressing issue and suggests the establishment of a multilateral fuel solution to promote the universalization of fuel access.

106. The UN Institute for Disarmament Research (UNIDIR) has suggested the establishment of fuel banks as a potential solution to this issue. It would act as a back-up supply for nuclear power reactors for State Parties on a non-discriminatory and apolitical basis. It can lower the risk of nuclear weapons proliferation by enforcing comprehensive safeguards to allow a safe and peaceful use of development of nuclear energy.

107. For many developing states, access to nuclear fuel is problematic. Therefore, the NPT RevCon recommends the establishment of the Nuclear Bank Network (NBN), a network of regional LEU banks. The NPT RevCon suggests that the NBN be coordinated through the IAEA. These LEU banks would cater to regional needs and specificities and would have two roles:

108. The first role would be to serve as an alternative emergency LEU source for eligible countries. Such a back-up would be able to prevent major disruptions in the nuclear fuel supply market. Where possible, NPT RevCon encourages the IAEA to promote the acquisition of reprocessed LEU for the NBN.

109. The second role would be to assist developing states wishing to start peaceful nuclear programs. It would supply LEU to state parties recommended by the IAEA TC Programme. The NPT RevCon recommends that the Board of Governors of the IAEA manage the evaluation of countries according to criteria set out in the IAEA Board of Governors resolution GOV/2010/67 (2010) and in respect to the RSA and the NPT. Such assistance would only be possible if it is preceded by a TC Programme where the country has signed an IAEA-approved Country Program Framework. The NPT RevCon would like to underline the fact that this supply of LEU to states is the last step after the establishment of nuclear infrastructure and capacity-building through the TC program.

110. Due to high proliferation risks, the NPT RevCon deems it necessary that the NBN enforce comprehensive safeguards to the LEU which the NBN supplies and requests the IAEA help it in such a task. Only the Member States which adhere to these safeguards would be eligible for assistance from the NBN.

111. Furthermore, states in the NBN also need to respect a number of comprehensive safeguards such as the RSA or the signature of the NPT. In addition, the IAEA must have concluded in the latest Safeguards Implementation Report concerning the country that there has been "no diversion of declared nuclear material and no issues

660 related to safeguards implementation.” The enforcement of comprehensive safeguards would allow supplier
661 states to limit risks of proliferation in supplied states.
662

663 112. The NPT RevCon recommends the use of the GNSSN to ensure the security of LEU material to ensure that
664 nuclear fuel does not fall into the hands of those looking to disrupt international peace and security. The NPT
665 RevCon further recommends the GNSSN allocate increased resources to staffing to meet this new demand. The
666 secure control of LEU is important to ensure the material meets the safeguards put forth by this body and
667 reaches the proper recipient countries.
668

669 113. The NPT RevCon advises furthering collaboration with the Nuclear Suppliers Group (NSG) to ensure the safety
670 of LEU to and from supplier countries through the application of the IAEA safeguards brought forth in this
671 document.
672

673 114. To mitigate the risk of hostile actions from non-state actors the NPT RevCon recommends that there should be
674 limits to the stocks of nuclear fuel owned by each regional LEU bank. These limits would consist of five refills
675 of a standard 1000 MW nuclear plant.
676

677 115. The Board of Governors of the IAEA has already been addressing the issue of the IAEA LEU Fuel Bank in
678 Kazakhstan and as such, the NPT RevCon recommends it further manage and develop LEU banks of the NBN.
679 As the Board of Governors is elected by the IAEA’s General Conference through equal regional representation,
680 the NPT RevCon believes that its diversity allows it to represent the interest of all state parties. Furthermore,
681 the NPT RevCon recommends that the IAEA serve as coordinator between the regional LEU banks in matters
682 of resource sharing, both in technology and fuel.
683

684 116. Due to the high costs of building a LEU bank, as seen in the IAEA LEU Fuel Bank in Kazakhstan, the NPT
685 RevCon deems it necessary to establish clear programs for ordinary and extraordinary spending. As such, the
686 NPT RevCon recognizes the work done in the Board of Governors’ resolution GOV/2010/67 but deems it
687 necessary to expand sources of funding.
688

689 117. The NPT RevCon recommends that the operational funding be partially found through the IAEA and partially
690 through existing nuclear development funds such as the Peaceful Uses Initiative or the Nuclear Threat Initiative.
691 The NPT RevCon asks State Parties and international institutions which have shown support for nuclear fuel
692 projects in the past to continue doing so through the NBN. Furthermore, the NPT RevCon recommends that
693 State Parties and international institutions reallocate financial resources to support and to put a focus on the
694 NBN.
695

696 118. For extraordinary events such as large-scale development projects or unplanned events, the NPT RevCon
697 recommends a two-fold funding program. Due to the risks linked to nuclear technology, it is essential to
698 maintain rapid access to funding for disaster response. Therefore, the NPT RevCon recommends that a fixed
699 percentage of budget, such as five percent, would be allocated to the Nuclear Disaster Assessment and
700 Response Team.
701

702 119. As seen before, the costs of building LEU banks are substantial and as such, the NPT RevCon recommends the
703 adoption of a multi-source extraordinary funding with contributions from the IAEA, through the Technical
704 Cooperation Fund and the Nuclear Security Fund, and other existing funds and initiatives such as the Peaceful
705 Uses Initiatives or the Nuclear Threat Initiative. In addition to these contributions, NPT RevCon encourages
706 voluntary contributions from Member States, corporations and individuals.
707

708 **B. Peaceful Uses Initiative for Multinational Development of New Generation Nuclear Reactors** 709

710 120. Due to the fact that developed states currently possess a significant amount of the funding and technology
711 necessary for the development of nuclear energy programs, the NPT RevCon firmly recommends increased
712 commitment of financial capabilities and assets from developed States Parties for use in the IAEA’s TC
713 Programme. The NPT RevCon aims to increase the PUI fund as a subset of the TC Programme fund and direct
714 the usages of their funds towards increasing the cooperative and productive exchange of peaceful nuclear
715 technology and research for developing States Parties.

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- a. The language in this report defines developed States Parties as those States Parties whose Human Development Index (HDI) score remains above 0.700. This index, compiled by the UN Development Programme (UNDP), takes into account factors which include not only economic criteria, but also other facets of the development process including life expectancy, education, and gross national income (GNI).
- b. There are numerous ways to define a “developed state,” including GDP per capita and the HDI. Due to the fact there is no universally accepted criteria to define a “developed state,” the recommendation to set the minimum HDI comes from the recent emergence of the Federative Republic of Brazil as a developed state. It is important under the consideration of the topic regarding the peaceful uses of nuclear energy to take into account other factors of a State’s development prior to contributing to the fund.
- c. The NPT RevCon recommends that developed States Parties assume responsibility for any outstanding financial needs of the PUI, which should ensure funding for any projects short of funds. Funding should support nuclear research and implementation programs for both developed States Parties and less-developed States Parties.

121. The NPT RevCon recommends the implementation of Strategic Controls and Regulations for Energy Efficiency Support (SCREENS), utilizing the Critical Infrastructure C to be overseen by the PUI funding body, which should ensure the proper utilization of said funds received by States Parties and the allocation of those funds towards the formation of nuclear energy capabilities and aforementioned “under-funded thematic packages”.

- a. The “thematic packages” should specifically benefit developing States Parties by providing potential electrical capabilities as the primary benefit of the peaceful use of nuclear energy, by ensuring the safe development of nuclear energy plants and the processing and disposal of nuclear waste, and other related matters. Currently, these projects are underfunded.
- b. In order to address any potential concerns regarding the depletion of funds related to the peaceful use of nuclear energy and not related to the PUI fund, the NPT RevCon recommends a review of the IAEA budget in order to ascertain any overlap in the separate funds within the budget. Currently, the IAEA budget contains several existing “thematic packages” already contained within the PUI. The NPT RevCon recommends this review of finances be carried out in such a way that the primary focus of the audit benefits developing States Parties. Since the aforementioned PUI “thematic packages” benefit those considered developing States Parties, it would be productive to allocate the increase in funds for the PUI towards those States Parties in direct need of assistance for under-funded projects.
- c. SCREENS should also be responsible for appointing an impartial review committee to examine the budget of the IAEA and look for said overlaps in the budget.
- d. States Parties that require assistance from the fund should apply for a research and implementation grant from the PUI based on their specific need. In order for the application process to be approved, the SCREENS initiative should send professional experts from the relevant fields in accordance with the “thematic packages” to analyze the proposed project. SCREENS should measure the feasibility, necessity, and estimated cost of completion.
- e. Through these measures, States Parties both developed and less-developed, should be able to not only increase technical cooperation, but also strengthen cooperation with the IAEA and fulfill duties outlined in the Articles IV and V of the NPT.
- f. Developed States Parties should fulfill the requirements outlined in the Article IV of the NPT to support and facilitate the diffusion of nuclear technology to less-developed States Parties, help reinforce the precedence of the NPT and IAEA, and expand existing partnerships and diplomatic ties between developed and less-developed States Parties.

- 772 g. Less-developed States Parties should benefit through increased sustainable development through
773 nuclear energy while increasing cooperation with developed nations to create responsible
774 implementation of nuclear initiatives. These States Parties should also achieve decreased dependency
775 on energy from other countries. Lastly, less-developed States Parties should strengthen current and
776 future cooperation with IAEA safety and security standards.
777
- 778 h. Furthermore, all States Parties to the treaty should benefit from socio-economic benefits as a result of
779 cost-efficient, clean energy provided through nuclear advancement. These benefits enable both
780 developed and less-developed states to continue contributions to the TC Programme and PUI for future
781 development, research, and implementation.
782

783 122. It is further recommended that the PUI fund should create a verification process that should ensure that all funds
784 allocated to the PUI are utilized purposefully and efficiently through the monitoring of SCREENS. This
785 verification process should involve any state that receives funding from the PUI under the heading of
786 SCREENS. These States Parties should be required to disclose to the SCREENS body annually through a report
787 of what specifically was accomplished through the utilization of the funds. States Parties would disclose their
788 reports directly to the recommended SCREENS body. This verification process should follow the guidelines
789 found under the Comprehensive Nuclear-Test-Ban Treaty, which utilizes the International Data Center, which
790 the NPT RevCon recommends should verify the funds spent and received by States Parties in conjunction with
791 On-site Inspection measures to verify the financial activity listed within annual reports.
792

793 123. In order to further ensure security and to avoid the said research falling into control of hostile parties, the NPT
794 RevCon recommends that the following requirements be met for a state to receive any funding from SCREENS:
795

- 796 a. The States Parties must be in good standing within the IAEA body, adhering to all protocols of the
797 organization.
798
- 799 b. The States Parties must be in good standing within the NPT, adhering to all protocols of the treaty and
800 conferences.
801
- 802 c. The States Parties are directly recommended by the IAEA or NPT to SCREENS as recipients of
803 funding.
804

805 124. The NPT RevCon supports the regional cooperative arrangements such as the initiatives amongst Latin America
806 and the Caribbean States (ARLAC) to emphasize reactor core analysis, including physics and thermo-hydraulic
807 studies, supplemented by training courses on the use of research reactors. Through ARLAC, the international
808 cooperation between the States Parties related to the research and development in the field of new generation of
809 nuclear reactors, and encompassing joint research programs, sharing of knowledge and resources and other
810 technical cooperation, is encouraged in order to accelerate the advancements in the implementation of these
811 kinds of reactors.
812

813 125. The States Parties possessing nuclear power facilities should consider the conversion from the Generation III
814 nuclear reactors, which are currently in use, to the Generation IV nuclear reactors being developed by
815 Generation IV International Forum (GIF), and which provide a clean, safe and cost-effective source of energy,
816 in particular through the following technologies: gas-cooled fast reactors, lead-cooled fast reactors, molten salt
817 reactors, sodium-cooled fast reactors, supercritical water-cooled reactors, very high-temperature gas reactors.
818 The States Parties, which already operate nuclear reactors, are actually aware of the costs, financial and
819 resource-based, associated with building a new reactor. The NPT RevCon therefore propose that the States
820 Parties engage in the research of possibilities of upgrading Generation III reactors into Generation IV reactors,
821 since this would be a promising solution to the issue of having old closed models of nuclear facilities.
822

823 126. The NPT RevCon encourages States Parties to set a tentative deadline of 2020 as a latest date for putting into
824 consideration the introduction of the Generation IV nuclear reactors in national energy policies. These efforts by
825 national governments would be addressed in the next NPT RevCon in 2020.
826

- 827 127. The NPT RevCon further invites the States Parties to consider the introduction and construction of new nuclear
828 plants cognizant of the technology advancements being researched within the GIF, and to invest into
829 construction of new generation of nuclear reactors in order to ensure maximal safety and security.
830
- 831 128. Aware of the fact that nuclear power plants require immense funding in order to be built and operated, the NPT
832 RevCon therefore suggests that States Parties cooperate and develop Multinational Power Plants (MPPs) on
833 their territories, with a special consideration for States Parties lacking sufficient financial and technical
834 resources. These MPPs must be situated in zones not being in a conflict and deemed suitable after an inspection
835 by the IAEA. Every country involved in the project would benefit economically by sharing profits from the
836 commercial profits of the MPP.
837
- 838 129. Since the adherence to standardized IAEA safeguards is essential to international peace and security, all States
839 Parties wishing to take part in an MPP program should follow all IAEA and NPT guidelines. Therefore, the
840 States Parties should agree to inspectors being sent to visit their nuclear power plants and to receive help by the
841 IAEA to make the necessary steps in following the guidelines by training governmental experts and providing
842 technical expertise. It should be ensured that every MPP facility is provided the same level of safety in order to
843 prevent unforeseen nuclear incidents.
844
- 845 130. The MPP facilities would have a shared ownership and authority by several States Parties being involved in the
846 project, each of the parties owning an equal part. This would significantly reduce the risk of illicit use of nuclear
847 facilities with a goal of running an undeclared nuclear program since every country would have an insight into
848 an MPP's functioning.
849
- 850 131. Since Article IV of the NPT strives for the peaceful use of nuclear energy, the NPT RevCon emphasizes the
851 need of a limitation of the stock of high-enriched uranium usable for development of nuclear weapons in the
852 multilateral facilities in order to prevent theft, loss, unauthorized sale or use. Furthermore the use of Generation
853 IV nuclear reactors in the new MPP projects is highly recommended since this new technology would provide a
854 clean, safe and sustainable source of energy.
855
- 856 132. The NPT RevCon recommends the IAEA Board of Governors to consider joining the International
857 Thermonuclear Experimental Reactor (ITER) and providing additional financial resources, with a goal of
858 advancing the research of nuclear fusion for commercial purposes and including the entire international
859 community in order to make all the States Parties benefit from the advantages related to the nuclear fusion
860 research. The IAEA should therefore allocate more funding towards the research of nuclear fusion and
861 development of new generation nuclear reactors.
862
- 863 133. The NPT RevCon encourages the States Parties to make extra-budgetary contributions to the IAEA for the
864 purpose of financing the aforementioned nuclear fusion research project. The States Parties are further
865 encouraged to provide incentives for the private sector, such as subsidies and diversification of the energy
866 portfolio by including more advanced renewable energy source, in order to involve private companies in the
867 process of building of Generation IV reactors.
868

869 **C. Improving International Cooperation on Decreasing Nuclear Waste and its Hazards**

870

- 871 134. The NPT RevCon recommends international cooperation on knowledge and technical information sharing,
872 within NPT Member States and under IAEA monitoring in order to promote safer and more environmentally-
873 oriented waste management solutions. In the 58th General Conference of the IAEA Scientific Forum, the issue
874 of "Radioactive Waste: Meeting the Challenge - Science and Technology for Safe and Sustainable Solutions"
875 was discussed. Due to its success, the IAEA Scientific Forum is requested to add the issue of nuclear waste
876 management as an annually discussed topic.
877
- 878 135. The NPT RevCon recognizes the importance of strengthening the role of the IAEA. Therefore, the NPT
879 RevCon suggests the enlargement of the IAEA training center facilities and emphasizes the Member States'
880 responsibility to assist the IAEA in this endeavor. Under the IAEA TC Programme, training centers should
881 educate nuclear plant personnel, nuclear scientists and security officers in radioactive waste management. More

precisely, NPT Member States are asked to increase their financial contributions related ability to the Technical Cooperation Fund for the purpose of finding innovative and secure solutions for waste management.

136. The NPT RevCon urges all IAEA Member States to engage actively in CRP, DISPONET and URF Network in order to understand the latest progress of nuclear waste management. Once more states and research organizations attend the three programs, a greater variety of energy production and radioactive waste regulations could be discussed and further improved. Information is spread more easily throughout the attendees. Moreover, the NPT RevCon encourages close collaboration and exchange between the three networks in order to increase efficiency.

137. The NPT RevCon encourages all Member States to prevent the abuse of nuclear waste by non-state actors. Therefore, it is recommended that Member States focus on an international cooperation level on the improvement of safeguards concerning the transport of radioactive material. Thus it is of utmost importance that the Regulations for the Safe Transport of Radioactive Material (2012) by the IAEA are implemented by every state tackling the transport of nuclear waste. Concerning this implementation, this conference calls for special attention on Section V - Requirements and Controls for Transport which outlines precise conditions for packaging.

138. The NPT RevCon suggests enforcing research and development in the areas of reducing nuclear waste:

- a. by encouraging the more effective Thorium technology pushed forward by the International Thorium Committee and by calling upon Member States to actively participate in the Committee taking into consideration the economic strength and nuclear research capacities of a nations.
- b. by ensuring that new reactors should incorporate Thorium technology with the long term goal of full replacement of the Uranium fuel cycle within the next 50 years.
- c. by implementing international and regional conventions for the transfer of scientific knowledge and exchange of best practices regarding the extraction of relevant resources and the efficient use of thorium as a fertile element.

139. The NPT RevCon recommends all Member States, especially those already engaging in nuclear waste reprocessing, to consider methods to reduce nuclear waste by implementing and improving mechanisms of recycling. Moreover, the international community should focus on sharing best practices, including reusing uranium for alternative energy production and achieving water desalinization by reprocessing nuclear waste. Member States are encouraged to consult the World Nuclear Association as an information-sharing platform.

140. The NPT RevCon recommends that Member States patronize the efforts of the scientific and academic community to further study solutions to manage nuclear technologies such as microbial degradation of radioactive materials, high temperature vitrification, and the possible implications of fungus in the degradation of radioactive materials.

D. Technical Cooperation for the Safety and Security of Nuclear Materials

141. The NPT RevCon implores States Parties to voluntarily support the United States' Global Threat Reduction Initiative through the cooperation of the NNSA and willing and able States Parties aiming to assist in the conversion of all available HEU to LEU reactors. The NPT RevCon recommends any adoption be supervised by the IAEA to ensure security and safety of conversions.

142. With the establishment of the IAEA Safety Standards, States Parties are able to effectively gain guidance on compliance with safety requirements in regards to emergency preparedness and response. Therefore, there is an increased focus on standards when dealing with a nuclear incident and those of natural disasters, which poses an intrinsic risk to the peaceful uses of nuclear energy.

143. The NPT RevCon is cognizant of the fact that States are using uranium with 50 percent or more enrichment for peaceful purposes; however due to the relatively short time period to create a nuclear weapon after reaching 50

938 percent enrichment. The NPT RevCon believes that an additional international standard, further adopted by the
939 IAEA, is needed to increase transparency and enhance information sharing regarding uranium enrichment
940 programs between States Parties.

941

942 144. To enhance information sharing and transparency, The NPT RevCon suggests the implementation of IAEA
943 standard inspections of nuclear material if the IAEA has declared a nuclear facility of producing 50 percent
944 HEU the facility should be classified as a possible-nuclear weapon grade reactor site. Through voluntary
945 subsequent reports, the IAEA should monitor this facility with respect to state sovereignty and the Model
946 Additional Protocol. The NPT RevCon further recommends defining the international minimum standard for
947 weapon grade uranium as 90 percent enrichment as declared by the Nuclear Threat Initiative.

948

949 145. The NPT RevCon strongly encourages all Member States who have not yet done so to comply with all
950 safeguards and sign the Model Additional Protocol with the IAEA, specifically concerning the transportation of
951 nuclear material in and out of their borders. Notification specifying the identification, the expected quantity and
952 composition of the nuclear material to be transferred, as well as the dates of dispatch and arrival shall be given
953 to the IAEA. The Agency shall also be given notice of at what point of the transfer the recipient State should
954 assume responsibility for the nuclear material.

955

956 146. The NPT RevCon recognizes the need for transparency and efficiency regarding the transportation of nuclear
957 materials to be utilized for nuclear energy. The NPT RevCon supports the discussion of a Sales Registry
958 Organization on nuclear technologies. The NPT RevCon recommends it to be based on the best practices of the
959 Norwegian Initiative on Small Arms Transfers, to be modeled closely after and placed underneath the WCO
960 HS. These transactions in matters concerning the exchange of nuclear technology should be reported, similar to
961 the way the WCO HS already applies to chemicals and their precursors. States Parties that engage within these
962 transactions would be requested to declare the exact utilization of these technologies in order for the
963 international community to ensure the proper utilization of nuclear energy. The NPT RevCon notes that by
964 utilizing this chain of control mechanism to further establish the accountability of transportation, the
965 international community can intrinsically link safety and security of nuclear materials with secure
966 transportation, thus ensuring the maintenance of nuclear materials to be utilized for peaceful purposes.

967

968 147. Furthermore, the NPT RevCon encourages for the WCO HS Database to encompass annual reports of these
969 transactions, which would be made available for all States Parties to access. Finally, once reporting has
970 occurred, the NPT RevCon recommends that when the transportation of nuclear materials is deemed a threat to
971 the maintenance of international peace and security, the WCO, in accordance with States Parties
972 recommendations, requests for the UN Security Council to be notified of these threats.

973

974 148. The NPT RevCon encourages States Parties who wish to engage in nuclear material trade to adhere to the
975 Zangger Committee's Trigger List, which comprises of sources of special fissionable materials and
976 equipment/materials that are designed for or prepared for the use, production, or processing of fissionable
977 materials. The NPT RevCon finds it imperative to adhere to the Trigger List to ensure that through voluntary
978 compliance, States Parties are able to engage in secure trade with one another, while still maintaining the
979 commitment to the non-proliferation of nuclear weapons and materials.

980

981 149. The NPT RevCon has found that through the Zangger Committee's Trigger List, there is a lack of an exhaustive
982 focus on nuclear materials and its secure transportation. Due to this, the NPT RevCon finds it is imperative to
983 request the importance of maintaining a Trigger List, which encompasses all nuclear related materials within the
984 Zangger Committee's Trigger List by the Zangger Committee's 38 States Parties. However, the NPT RevCon
985 does acknowledge the work of the NSG's Guidelines for Nuclear Transfers with the inclusion of nuclear
986 materials within their transportation framework.

987

988 150. With regards to States' rights to purchase, sell, and trade nuclear material and facilities, the NPT RevCon
989 strongly recommends States Parties continue to work in good faith as established in Article 42, Clause 2 of the
990 Vienna Convention on the Law of Treaties (VCLT). Furthermore, The Decree on Strategic Goods of the
991 Netherlands and the Wassenaar Arrangement serve as best practices to promote the facilitation of the transit of
992 dual use goods related to chemicals and their precursors. The NPT RevCon recommends that these current
993 programs serve as guidelines to monitor nuclear dual-use goods in accordance with the IAEA.

994
995 151. The NPT RevCon recognizes the Proliferation Security Initiative (PSI) as a significant effort to counter the
996 spread of Weapons of Mass Destruction (WMD) their delivery systems and related material from states and
997 non-state actors. Through this initiative, the international community can ensure that nuclear materials remain
998 utilized for peaceful purposes only. The initiative promotes legally binding international treaties to criminalize
999 international WMD-related trafficking by commercial ships and aircraft; sharing expertise and resources to
1000 build critical interdiction capabilities and practices, which in return promote the utilization of nuclear materials
1001 for peaceful purposes only.
1002

1003 152. The NPT RevCon suggests the implementation of Mongolia's and the United States' Nuclear Energy Agency
1004 Memorandum of Understanding in order to equip Mongolian borders with modern nuclear detection technology
1005 by all States Parties. This enables States Parties to gain the capacity and assume responsibility for preventing
1006 nuclear trafficking across the border, thus promoting State ownership.
1007

1008 153. Tracking the transport of nuclear material across national borders is a crucial aspect to the security of non-
1009 proliferation of destructive technologies. Therefore, the NPT RevCon encourages States Parties to entertain the
1010 International Radiological Assistance Program Training for Emergency Response (I-RAPTER) facilitated by
1011 the IAEA and the United States' National Nuclear Security Administration (NNSA) as a best practice model for
1012 border control and security for States Parties.
1013

1014 154. The NPT RevCon requests for the further development and implementation of customized state-level
1015 safeguards approaches for all States Parties, through the IAEA's Department of Safeguards, in order to better
1016 take into account relevant State-specific factors that may affect the ways in which safeguards are implemented
1017 and utilized in States Parties. Furthermore, The NPT RevCon urges States Parties to align their policies with the
1018 IAEA's State Level Concept Framework, as a means of strengthening the efficiency and the effectiveness of
1019 IAEA Safeguards and Inspections.
1020

1021 155. The NPT RevCon strongly supports the improvement of transparency guidelines regarding nuclear safety, with
1022 a specific focus on safety during transportation of nuclear materials, implemented by the IAEA's Nuclear Safety
1023 Action Platform. Promoting transparency should encourage States Parties to fully commit to the rules and
1024 regulations outlined in the IAEA's 2011 Action Plan on Nuclear Safety. The NPT RevCon encourages States
1025 Parties to endorse improvement of transparency procedures, which can then help to encourage states to adhere
1026 to the procedures and policies regarding nuclear safety as defined in the Action Plan on Nuclear Safety.
1027

1028 156. The NPT RevCon suggests the creation of a task force for Managing and Identifying Nuclear Equipment
1029 (MINE) by the UN Office for Disarmament Affairs (UNODA), as modeled after the UNODA Program of
1030 Action, specifically their International Tracing Instrument program, related to Small Arms and Light Weapons
1031 (SALW). This Task Force would be to codify nuclear reactors, thus increasing transparency as well as
1032 confidence building between States Parties.
1033

1034 157. However, the NPT RevCon notes that these detection systems are not an absolute end all to the illicit trafficking
1035 and transporting of nuclear material across borders. This is a direct infringement on the utilization of nuclear
1036 energies for peaceful purposes, as it poses a direct violation to Article IV of the NPT, which maintains the
1037 nuclear energies and technologies shall only be utilized for peaceful purposes. Therefore, the NPT RevCon
1038 urges for States Parties and National Authorities to foster a strong relationship with international law
1039 enforcement agencies, such as INTERPOL or UN-POLICE to ensure that enforcement of standards remains a
1040 priority within the international community.
1041

1042 158. The NPT RevCon finds the necessity of a comprehensive guideline for the international community related to
1043 the transportation and trade of nuclear materials that are to be utilized for peaceful purposes. This differs from
1044 the NPT RevCon's previous recommendations regarding tracing initiatives due to the necessity of trade
1045 regulations being enacted within a States Parties to ensure the security of nuclear materials. Therefore, the NPT
1046 RevCon recommends for the expansion of the Nuclear Suppliers Group (NSG) to include all States Parties who
1047 are pursuing nuclear technologies in order to effectively establish transportation guidelines in the early stages of
1048 nuclear development. Through the NSG and a partnership with the IAEA's Transport Safety Appraisal Service

1049 the international community can establish comprehensive transportation and trade regulations, providing a
1050 specific emphasis on developing States, in order to ensure that the transportation of nuclear materials remains
1051 secure.

1052

1053 159. The NPT RevCon recommends the parties to the NPT to facilitate regional joint training programs, similar to
1054 the I-RAPTER facilitated by the IAEA in cooperation with the NNSA for Iraqi and Jordanian officials, for
1055 responsible officials in the field of border protection and border control in the context of monitoring and
1056 preventing trafficking of nuclear material, as well as to react in case of an incident in an appropriate and
1057 professional manner, serving both as a security measure and a confidence building measure. By ensuring the
1058 exit and entry points are equipped with proper devices detect to radioactive material as well as assess the level
1059 of enrichment in such material.

1060

1061 160. For the purpose of extending the global non-proliferation regime, the NPT RevCon recommends cooperation
1062 between technically advanced States Parties and developing States Parties to implement modern border security
1063 initiatives modeled after the United States-Mongolia cooperation. Developed States Parties should partner with
1064 developing States Parties to identify borders where trafficking in nuclear and radiological materials occurs,
1065 especially in train, cars, planes, and ports, and provide financial and scientific assistance in installing up-to-date
1066 radiation detection technology at critical border crossings. After a suitable period of training, the infrastructure
1067 and its continued use could gradually become the responsibility of the developing States Parties.

1068

1069 161. The NPT RevCon implores all States parties to join the PSI and commit to the interdict transfers to and from
1070 States Parties and non-State actors to ensure that nuclear material remains utilized for peaceful purposes. NPT
1071 RevCon encourages for the further expansion of procedures to facilitate exchange of information with other
1072 countries; strengthen national legal authorities to facilitate interdiction; and take significant actions in support of
1073 interdiction efforts.

1074

1075 162. The NPT RevCon encourages the international guidelines for nuclear material transportation to be similarly
1076 modeled after the guidelines set forth by the United States 123 Agreement. The NPT RevCon recommends that
1077 the IAEA consider this model and monitor it to ensure all States Parties are satisfied with the incorporation of
1078 this best practice and that it is a multilateral effort between the further implementation of these guidelines, the
1079 IAEA, and State Parties. The guidelines include full-scope and strict application of IAEA Safeguards to any
1080 material or facilities proposed to be exported as well as material or facilities previously exported and also
1081 including that exported materials cannot be used for creating nuclear explosive device or for research for a
1082 nuclear explosive device. NPT RevCon recommends these recipient States have the adequate physical security
1083 on nuclear material or facilities and the State is prohibited from retransferring material, technologies, facilities
1084 or equipment, the recipient State is prohibited from reprocessing or altering any transferred material.

1085

1086 163. Through establishing a working relationship with the UNDP Office for South-South Cooperation (OSSC) and
1087 the IAEA, the NPT RevCon requests for the creation and strengthening of existing technological capacities to
1088 ensure developing States can effectively absorb and adapt to meet the needs of the international community in
1089 regards to transportation security infrastructure in order to address the security concerns related to transportation
1090 of developing States more productively through encouraging technical cooperation between States Parties. This
1091 can be achieved through a partnership of the IAEA Department of Technical Cooperation and the UNDP's
1092 OSSC, similar to that of the UN Food and Agriculture Organization and IAEA Joint Technical Cooperation
1093 Program.

1094

1095 **E. The Peaceful Uses of Nuclear Energy: Fostering Sustainable Development**

1096

1097 164. The NPT RevCon encourages increased cooperation between the IAEA and Member States in order to foster
1098 sustainable development through increased involvement in the peaceful uses of nuclear energy and the benefits
1099 that are derived from the knowledge of the applications of the affiliated technology. This could be done through
1100 increased developing country involvement with the IAEA TC Programme, the Technical Cooperation Board
1101 and the regional organizations that are under it in order to ensure a multilateral approach on all levels. This
1102 should expand the scope of the IAEA for including developing states and different outlooks. The IAEA should

1103 look towards increasing partnerships with more developing countries that had previously not had access or
1104 relations with the IAEA or to the benefits the IAEA provides.
1105

1106 165. The NPT RevCon recommends regional organizations work with the IAEA and other relevant UN bodies and
1107 organizations in developing regional frameworks for utilizing nuclear energy based on already existing regional
1108 frameworks such as the European Union Atomic Energy Community, the Asian Nuclear Safety Network, the
1109 African Commission on Nuclear Energy and the Department of Technical Cooperation Latin America. This
1110 should create a foundation for regions collaborating on nuclear technology in a safe, effective, and standardized
1111 manner that cooperates with the specific needs and desires of each nation and region. This should further create
1112 consistency and standardization of nuclear energy and technology utilization in the international community
1113 through facilitating technical cooperation and promoting best practices in the peaceful development of nuclear
1114 energy and technology on an inter-regional level.
1115

1116 166. The NPT RevCon endorses the sharing of nuclear energy knowledge, materials, and equipment such as those
1117 necessary for light water reactors of developed states to developing states that adhere to Comprehensive
1118 Safeguard Agreements to allow developing countries to have access to more efficient forms of energy. The
1119 transfer of nuclear material specifically should be monitored by the IAEA, the Zangger Committee and the
1120 Nuclear Suppliers Group in order to prevent this material from being accessed by non-state actors and these
1121 groups should include more States in order to monitor all transfers to all States Parties that plan to utilize
1122 nuclear energy. This monitoring should not however go against the sovereignty of States Parties. The NPT
1123 RevCon emphasizes that access and implementation of nuclear energy for peaceful use should open a gateway
1124 for developing nations to utilize nuclear technology.
1125

1126 167. Because States Parties to the NPT understand the possibility for abuse of nuclear energy by non-state actors,
1127 States Parties stress the need to establish a more sophisticated process for reviewing peace resolutions and
1128 initiatives so that nuclear energy can be used for positive technological advancement instead of detrimental
1129 purposes.
1130

1131 168. The NPT RevCon recommends the expansion of the IAEA TC Programme through the establishment of the
1132 “International Institute for the Peaceful use of Nuclear Energy.” The Institute should serve as a think tank to
1133 generate ideas and region specific publications related to fostering sustainable development through the
1134 peaceful use of nuclear energy. This should contribute to strengthening the training of national experts from
1135 developing countries and reinforce assistance to developing countries’ access to technical cooperation through
1136 information sharing, knowledge transfer and capacity building. The Conference recommends that the Institute
1137 cooperates closely with regional agencies such as the Arab Atomic Energy Agency.
1138

1139 169. The States Parties propose the creation of a “Technical Empowerment Fund” (TEF) within the framework of the
1140 IAEA’s TC Programme, financed voluntarily by existing public-private partnerships and developed countries.
1141 The TEF should prioritize the provision of financial support to developing nations and developing regions.
1142 Public-private initiatives geared towards research and investment in the development of nuclear energy
1143 capabilities should empower developing regions, reducing their dependency on other regions. The TEF should
1144 also leverage part of the funding and all of the risk associated with such investments, encouraging private actor
1145 investment in advancing technical cooperation in underdeveloped regions.
1146

1147 170. In association with Nuclear Knowledge Management under the IAEA and in cooperation with universities, host
1148 countries should hold annual international and regional conferences to share nuclear technological knowledge
1149 and develop new uses of nuclear energy for peaceful purposes while expanding on the work of the International
1150 Framework for Nuclear Energy Cooperation. This should provide opportunities for nuclear scientists to create a
1151 network and share ideas in a safe and productive environment.
1152

1153 a. The NPT RevCon addresses all topics relevant to the three pillars upon which the treaty was
1154 established, the International Nuclear Research Conference and Regional Nuclear Research
1155 Conferences should concentrate solely on the advancement of the technical cooperation on nuclear
1156 research. The frequency of these conferences should allow a greater opportunity for the successful
1157 implementation of solutions regarding nuclear energy.
1158

- 1159 b. Member States should, on a voluntary basis, send academics and researchers in the disciplines of
1160 Science, Technology, Engineering, and Mathematics that specialize in nuclear energy to the
1161 conferences. To give Member States an incentive for transparency and ensure that technology is
1162 developed safely, only Member States working towards compliance with the IAEA could send
1163 researchers and technocrats to the conferences. Universities with a desire to attract academics and
1164 create knowledge should bid for the annual international and regional conferences on a geographic
1165 rotational basis, using the established geographic regions in the UN. Thus, they should contribute
1166 funding and provide locations for the conferences.
1167
- 1168 c. Each conference should focus on a number of specific nuclear energy related topics including
1169 hazardous waste management, agriculture, water purification, and creating nuclear energy sources for
1170 the least developed and developing countries to satisfy their rapidly increasing energy needs. Thus,
1171 nuclear energy could accelerate economic growth and ultimately increase the welfare of Member
1172 States. At the end of each conference, an outcome document should be created, summarizing the
1173 findings of the conference. These outcome documents should be sent to research ministries in
1174 participating Member States to spread knowledge.
1175

1176 171. The NPT RevCon encourages States Parties to pursue IAEA-coordinated research projects (CRPs) similar to the
1177 ones conducted from 1998-2003, to assess the cost and feasibility of integrating desalination technology with
1178 nuclear reactors. Nuclear desalination technology utilizes the wasted heat from nuclear power reactors to filter
1179 and condense water. Linking desalination facilities to nuclear power plants is a convenient and sustainable way
1180 to address water security concerns in the world's driest developing regions. Furthermore, the use of nuclear
1181 energy plants to enhance desalination technology has proven long-term economic benefits compared to other
1182 methods of desalination. The NPT RevCon should advise States Parties to make use of the IAEA's Desalination
1183 Economic Evaluation Program (DEEP) to assess the economic factors of a given nuclear facility. The
1184 Conference encourages States Parties to undertake IAEA CRPs to assess the cost and feasibility of integrating
1185 desalination technology with nuclear reactors regionally,
1186

- 1187 a. The NPT RevCon recommends that States Parties make use of the IAEA's DEEP, software that
1188 assesses the economic factors of a given nuclear facility and desalination plant cogeneration proposal.
1189
- 1190 b. The NPT RevCon further encourages States Parties to pursue CRPs at the regional level as outlined in
1191 Article 43 of the Final Document of the 2010 NPT RevCon, and to follow the framework outlined in
1192 the 1998-2003 IAEA Nuclear Desalination CRP that included China, India, Canada, Republic of
1193 Korea, Morocco, and Tunisia.
1194

1195 **F. Advancing Information Sharing, Education, and Multilateral Cooperation to Facilitate Technical** 1196 **Development** 1197

1198 172. The NPT RevCon recommends the implementation of the prioritized organizational tier system by the IAEA for
1199 the purpose of prioritizing the sharing of documents relating to nuclear technology and security, such as: Tier 1:
1200 IAEA Regional Organizations, State Governments, Tier 2: Academic and Appropriate Nuclear Professionals
1201 and Tier 3: General Public and Media. The Conference infers, by using the tier system presented above,
1202 information sharing between Tier 1 and Tier 2 could encourage the development of regional sharing networks
1203 and cooperation mechanisms.
1204

1205 173. The NPT RevCon affirms the statement by former Deputy Director General of the IAEA, Matthew Bunn's
1206 suggestion that the IAEA provide stricter rules, regulations and safeguards against the sale and transport of
1207 fissile material, information and technology in order to promote a level of basic scientific sharing of information
1208 and technology, combined with the insurance of progressing strictly peaceful agendas. These rules include, but
1209 are not limited to:

- 1210 a. Repetition of research; to foster the deployment of advanced energy technologies, Member States must
1211 first be a member in good standing of the IAEA.
1212
1213

- 1214 b. Multilateral cooperative activity among member states to exchange nuclear technology research and
1215 personnel to promote growth in research and encourage a symbiotic relationship that stresses mutual
1216 benefit, equality and reciprocity.
1217
- 1218 174.The Conference supports the role of regional nuclear energy and information sharing networks (RNETISN)
1219 such as the African Network for Education in Science and Technology (AFRA-NEST), the Asian Network for
1220 Education in Nuclear Technology (ANENT), and the Latin American Network for Education in Nuclear
1221 Technology (LANENT) in the spread of those technologies and information for Lesser Developed Countries
1222 (LDCs).
1223
- 1224 175.The IAEA should hold symposiums that broaden the scope of the preexisting symposiums, by educating parties
1225 to the IAEA Additional Protocols, on how to use nuclear energy safely without causing radioactive hazards,
1226 external dangers, natural disasters, and other risks that are usually associated with the use of nuclear energy.
1227 Such symposiums would focus on both prevention and focused instruction on preventing and containing nuclear
1228 disasters.
1229
- 1230 176.The NPT RevCon calls upon all member states to broaden Joint Training Programs, at the international level
1231 with organizations such as IAEA, on a multilateral basis as well as regional level, but also in bilateral
1232 cooperation. These programs would ensure adequate CBRN (Chemical, Biological, Radiological, and Nuclear)
1233 training in order to facilitate the efficient and safe reaction, to potential reactor meltdowns. This training of new
1234 staff should occur for a six month period in order to ensure complete understanding. The progress of these
1235 programs could be supervised by the IAEA through regular reporting of the member states.
1236
- 1237 177.The NPT RevCon urges convening of a multilateral International Review Board and Coordinating Council
1238 (IRBCC) comprised of experts from the IAEA, NEA, OECD, ANSN to facilitate the transfer and sharing of
1239 technology.
1240
- 1241 178.Acknowledging the importance of stimulating regional cooperation with the goal of fostering understanding,
1242 collaboration, and confidence-building in a specific region and beyond, the NPT RevCon encourages the
1243 enhancement of the support given towards The Regional Centre for Peace and Disarmament in Asia and the
1244 Pacific (Kathmandu, Nepal), together with the Regional Centers in Africa (Lomé, Togo) and Latin America and
1245 the Caribbean (Lima, Peru). The NPT RevCon is convinced that by providing a higher level of support to these
1246 centers, advancements in technical support, information and knowledge sharing, and assistance among regions
1247 may be achieved.
1248
- 1249 179.The NPT RevCon believes an expansion of RNETISNs to more State Parties could play a key role in allowing
1250 nuclear energy technologies and knowledge to spread to those most in need of the nuclear technologies.
1251 Furthermore, the Conference recommends IAEA TC Programme to work with RNETISNs so as to tailor aid
1252 programs best met for regional needs across the developing world, whether they be the most basic of needs in
1253 the LDCs or the more technical demands of a well-developed nuclear energy program.
1254
- 1255 180.The NPT RevCon also seeks to establish educational initiatives in regional and sub-regional bodies in order to
1256 improve nuclear energy capacity and emphasize nuclear safety guidelines in developing Member States with the
1257 knowledge and capacity of regional neighbors and developed states around the world, allowing ideas and
1258 technologies to flow between tiers unimpeded.
1259
- 1260 181.The NPT RevCon also recommends Higher Education grants to undeveloped nations for the purpose of
1261 establishing populations of Native Nuclear Specialist and Technicians, thereby allowing further independence
1262 for developing states towards the peaceful use of nuclear energy in order to:
1263
- 1264 a. Allow each state to develop its own nuclear infrastructure and capabilities, thus reducing their reliance
1265 on international community for nuclear technology and expertise.
1266
- 1267 b. Allow for the possibility of new advancements in nuclear technology as developing states
1268 independently fund and invest in their own program's research and development
1269

- 1270 182.The NPT RevCon recommends, in an effort to incentivize regional cooperation and transparency and that the
1271 IAEA be empowered to decide when a member-state is ready for nuclear capability, based on the following
1272 criteria: Standing with the IAEA and NPT, Regional Stability and Cooperation, State compliance to
1273 international law and Filing Regular Reports. The Conference believes that at such a time when the IAEA
1274 determines that these criteria are met, international organizations with the endorsement of the Security Council
1275 would be allowed to begin the process of diffusing nuclear technology in a safe and effective manner.
1276
- 1277 183.The NPT RevCon recommends the addition of Universal Access to Peaceful and Safe Nuclear Energy to the
1278 post-2015 development agenda in order to increase efforts and cooperation to reach this goal by 2030.
1279
- 1280 184.The IAEA Design Safety Reviews incorporate international regulation through IAEA safety inspection while
1281 still cooperating with the internal atomic energy bodies responsible for each Member States' safe use of nuclear
1282 energy. Therefore, the NPT RevCon reaffirms that the NPT fosters the development of peaceful use of nuclear
1283 energy and a cooperative effort between the IAEA and the internal regulatory bodies of each Member States
1284 ensures an overall element of transparency between all involved parties.
1285
- 1286 185.The NPT RevCon recommends the use of voluntary contributions by States Parties in an attempt to incentivize
1287 adherence of the Design Safety Reviews. If the Member State is complying with the reviews according to the
1288 IAEA, the conference recommends that money is allocated to help further develop and promote safe and
1289 sustainable nuclear practices.
1290
- 1291 186.The encouragement of decentralization into cooperation between two bodies is recommended by this committee
1292 in order to ensure the individual goals of the states are listened to and abided by. The NPT RevCon recommends
1293 that more Member States adopt inclusionary policies that allow the IAEA to directly cooperate with state atomic
1294 energy agencies to prevent complete regulation to be controlled by the IAEA.
1295
- 1296 187.The NPT RevCon recognizes that a public information database such as the GNSSN has legitimacy for the
1297 promotion of an international database comprising of public information sharing and resource data towards the
1298 maintenance of information and the status of all nuclear related materials. Through publicly accessible
1299 information systems, national and international confidence building practices can be established.
1300
- 1301 188.Beyond the transparency created with GNSSN, a further multilateral information and technology sharing center
1302 should be accessible to all States Parties, monitored and regulated by the IAEA:
1303
- 1304 a. To provide research aid for smaller nations without nuclear energy capabilities.
 - 1305
 - 1306 b. To share information as well as scientists in an advisory role as an aid to further advance research
1307
 - 1308 c. Establish Nuclear Materials Accountancy Reporting (NMAR) e-business system to advance electronic
1309 capabilities, also to act as a body to centrally collect all research and data
1310
 - 1311 d. Which must have safeguards. Access to the database should be revoked under extenuating
1312 circumstances to be decided by the IAEA in a further meeting.
1313
- 1314 189.The NPT RevCon implores the IAEA to provide access to a secure database to all approved NPT members in
1315 good standing who have ratified the additional protocol and been approved by an IAEA selection committee
1316 under recommendation of the NPT, which is to be recommended by the NPT based on application process. The
1317 purpose of this is to promote the concept of universality, which would be targeted to encourage the creation of a
1318 platform for international dialogue whose main objective should be to determine a universal understanding of
1319 nuclear technological movements and developments.
1320
- 1321 190.Recognizing the potentially beneficial effects of sharing peaceful nuclear technology, this body advocates for
1322 increased sharing of information. It is recommended that this be done through programs of exchanging
1323 scientists and nuclear technicians. Also of great importance to the transfer of information is the process of
1324 education of nuclear technicians. Therefore, it is recommended that Member States develop nuclear education
1325 facilities, such as Ghana's School of Nuclear and Allied Sciences (SNAS) and their National Nuclear Research

1326 Institute (NNRI).

1327

1328 191. The NPT RevCon recommends regional organizations such as the EURATOM and the RCPDAP, which are
1329 looking forward to approach the issue of increasing public awareness from the following three perspectives:
1330 information about the advantages of having peaceful nuclear programs; the disadvantages and dangers related to
1331 production of such nuclear energy; and clarification of the advantages and disadvantages of such nuclear
1332 programs among the developed States Parties that are operating such programs.

1333

1334 192. The NPT RevCon recommends that the IAEA establish the Education in Nuclear Development (END) training
1335 programs to train local nationals and staff living in developing countries in both technical security, and
1336 sustainable and ecofriendly technologies. To this end the NPT RevCon encourages the development of a
1337 comprehensive framework and guideline manual that can outline the educational materials necessary to the
1338 success of the END program. Educational materials should reflect the guidelines and principles established by
1339 the IAEA for the International Nuclear Security Education Network (INSEN). The END program would further
1340 expand the educational capacity and scope of the INSEN.

1341

1342 193. In the interest of innovation and integration of nuclear technology into the infrastructure of developing and
1343 developed countries, the NPT RevCon strongly advocates the END program to promote international and
1344 domestic corporate awareness regarding green nuclear energy through the provision of subject matter experts
1345 (SME's). The SME's should directly oversee and advise the instruction regarding the possibilities of nuclear
1346 technology and should inform businesses of the socio-economic benefits of pursuing nuclear energy on a global
1347 scale. This program could be the boost to national economies provided by acceptance of nuclear energy.

1348

1349 194. The NPT RevCon further encourages the expansion of civil society and private sector initiatives conditional
1350 upon the involved state that contribute to nuclear education at both the level of the general population and also
1351 in relation to professionals in the nuclear sector. To this effect the NPT RevCon recommends that the World
1352 Nuclear Program (WNP) partnership be expanded to intake a greater number of individuals, and prioritize the
1353 placement of promising individuals from countries developing their nuclear capacities. The NPT RevCon
1354 further recommends that all relevant entities contribute to the funding of such initiatives. This framework
1355 should aim to include education and should utilize media to reach the coverage across multiple layers of society.
1356 To facilitate this, the NPT RevCon recommends that the IAEA's TC Programme cycle insert a new educational
1357 program structure called "Provision for Education" into their programs funded for the purpose of education
1358 regarding nuclear development.

1359

1360 **G. Crisis Management: Prevention and Response**

1361

1362 195. The NPT RevCon strives toward the extended promotion and advancement of nuclear energy as a primary
1363 alternative energy source. The NPT RevCon suggests advancement in the peaceful uses of nuclear energy, and
1364 wishes to pursue the implementation of critical steps to ensure the safety and longevity of nuclear power plants.

1365

1366 196. The NPT RevCon calls on States Parties with land-operated nuclear facilities to ratify the 1986 Convention on
1367 Early Warning and Notification and Notification of a Nuclear Accident, as a means to ensure public safety
1368 levels are upheld to international standards.

1369

1370 197. The NPT RevCon supports further actions by the IAEA taken to avoid any future risk of radiological
1371 contamination to all populations surrounding nuclear facilities, damages to the environment in the event of a
1372 nuclear disaster resulting from unintentional malfunction or natural disaster, and the potential for an intentional
1373 strike against a peaceful nuclear energy facility in accordance with paragraph 75 of the Final Document of the
1374 2010 NPT RevCon.

1375

1376 198. The NPT RevCon recommends the continued development of the IAEA Action Plan on Nuclear Safety and
1377 encourages States Parties to take advantage of the program as it promotes safety, security, on-site testing, and
1378 review of safety systems at reactor sites both in regional subgroups and on an international level. The NPT
1379 RevCon further recommends the continued advancement of their larger scale deployment of early warning
1380 systems, detection devices, and monitoring capabilities for potential tsunamis, hurricanes, and earthquakes in
1381 order to mitigate the damage of future natural disasters. The NPT RevCon recommends the IAEA establish

1382 more specific and stringent policies regarding the safe selection of geographical locations for nuclear facilities,
1383 particularly for countries and regions that are prone to natural disasters.
1384

1385 199. The NPT RevCon strongly recommends a broadening of the mission and capabilities currently at the disposal of
1386 UN Disaster Assessment and Coordination (UNDAC) to include the implementation of rapid deployment and
1387 natural disaster reparations and emergency response capabilities specifically aimed at handling emergency
1388 situations related to the technical cooperation of nuclear energy. The NPT RevCon strongly suggests reforming
1389 the existing IAEA emergency response system, IES, and the IAEA IEC by expanding its capacity through the
1390 Nuclear-Disaster Assessment and Response Force (N-DART) which should consist of personnel from States
1391 Parties to the NPT and improve the existing IES and IEC structures in order to enhance response times and
1392 improve the effectiveness of deployment teams globally.
1393

1394 200. N-DARTs should include a Preliminary Response Team (PRT), tasked with being prepared, knowledgeable,
1395 and first on site for a nuclear crisis worldwide, to precede the arrival of emergency response units. The PRT
1396 should operate under N-DART and the IAEA; however, should include certain levels of autonomy in order to
1397 respond to disasters quickly and efficiently without infringing upon state sovereignty. PRTs would respond
1398 immediately to catastrophes, mitigating long term effects, while larger N-DART support teams would
1399 coordinate regionally to ensure the most effective outcomes, working with existing IAEA bodies such as
1400 UNDAC and other relevant organs. The NPT RevCon suggests IAEA review their focus on implementing
1401 regional and national training in nuclear newcomer countries, and rather focus also on those countries having a
1402 history of nuclear activity. The NPT RevCon suggests that there be more regional support networks around the
1403 world to deal with disasters. As it stands now there are only two regional support networks with locations in
1404 Toronto and Tokyo, and The NPT RevCon suggests the implementation of additional regional support networks
1405 to include Eastern and Western Europe, Asia, Latin America, and Africa to best provide a truly global reach and
1406 response.
1407

1408 201. The NPT RevCon additionally suggests the expansion the IAEA International Nuclear and Radiological Event
1409 Scale (INES) by administering a comprehensive international rating system (N-DART Rating) which could
1410 apply specifically to the current state of international and regional nuclear emergency preparedness with regards
1411 to facilities peacefully using, or attempting to use, nuclear energy. While the IAEA's IES rating focuses on
1412 assessment of potential emergency consequences and prognosis of possible emergency progression, the N-
1413 DART Rating system could inform surrounding states in the region which facilities are up to current IAEA
1414 safety and security code, giving confidence and incentive to states to receive high safety level ratings.
1415

1416 202. The NPT RevCon furthermore asks for the continued use of the IAEA's Incident and Trafficking Database
1417 (ITDB) to compile existing reports on nuclear incidents so as to allow States Parties access to these reports to
1418 enable them to effectively establish their own regulatory framework to prepare for nuclear incidents, which
1419 specifically are related to transportation. The ITDB proposes itself as an essential component of technical
1420 cooperation, with specific regards to uphold the IAEA Nuclear Security Plan, which in return promotes security
1421 of the transportation of nuclear materials.
1422

1423 203. The body recommends placing responsibility for coordinating potential N-DART actions with a command and
1424 control extension of N-DART (N-DART Main), which should operate under the supervision of the IES. The
1425 body also recommends that N-DART collaborate closely with existing expertise-exchange platforms including
1426 those under the framework of the IEC such as the Unified System for Information Exchange on Incidents and
1427 Emergencies (USIE).
1428

1429 204. The NPT RevCon advises N-DART access, membership, training, and deployment be accessible to States
1430 Parties to the NPT dependent on the acceptance of and cooperation with the upgraded safety and security
1431 mandates provided through the IAEA.
1432

1433 205. The NPT RevCon recommends the enhancement of IAEA training center facilities, which are part of the IAEA
1434 Technical Program, for nuclear power plant personnel, scientists and security officers to give N-DART forces
1435 the opportunity to provide comprehensive nuclear disaster and response training while emphasizing regional
1436 frameworks, bearing in mind the importance of state sovereignty. The NPT RevCon further suggests
1437 enhancement of the IEC training programs and organizing training courses and workshops facilitated through

1438 N-DART to provide specialized nuclear disaster-related education and contrast IAEA education plans for pre-
1439 disaster nuclear handling and safety, to States Parties to the treaty in order to enhance international capabilities
1440 in disaster responses and prevention, and wish to provide support in the form of equipment and upgraded
1441 infrastructure for disaster response and containment operations.
1442

1443 206. The NPT RevCon affirms that States Parties to the NPT unwilling to accept, upgrade, and adapt to the higher
1444 safety and security standards provided through the IAEA should not be afforded access to N-DART
1445 membership, benefits, and capabilities. The NPT RevCon emphasizes that benefits of N-DART would be
1446 provided in exchange for maintaining strict adherence to NPT and IAEA mandates and regulations for safety
1447 and security of their nuclear power plants and further cooperating in nuclear disaster prevention and response.
1448

1449 207. The NPT RevCon further recommends a reformation of the existing IAEA's Regional Safeguard Offices plan,
1450 as the NPT RevCon believes a true regional response is necessary in order to address a disaster and requires
1451 more than two offices to respond quickly to a catastrophic event. The NPT RevCon further recommends already
1452 designated IAEA state-level Contact Points be given all information regarding best response practices, in spirit
1453 of the 2012 IAEA International Experts Meeting on Enhancing Transparency and Communication Effectiveness
1454 in the Event of a Nuclear or Radiological Disaster. The NPT RevCon recommends that N-DARTs be clustered
1455 around specific regional zones with the highest nuclear reactor concentration in areas such as North America,
1456 Western and Eastern Europe, also Asia; as well, in areas considered more underdeveloped and therefore, more
1457 at risk, including the regional zones of Latin America and Africa. The aim of these regional blocks is
1458 specifically to ensure that disasters in zones with the highest concentration of nuclear facilities, and therefore
1459 risk of disaster, can be resolved quickly.
1460

1461 208. The NPT RevCon further suggests N-DARTs main objectives be the assessment of nuclear crisis situations,
1462 containing damage, analyzing the most efficient method of advance, and ensuring the safety of the local
1463 population using updated information and resources previously unavailable to EPRUs. N-DARTs primary
1464 objective should be the containment of hazardous materials and proposing means by which to restore the area to
1465 its normal state, simplifying and broadening its mandate.
1466

1467 209. The NPT RevCon understands the importance of States Parties ability to report on significant nuclear incidents
1468 during transportation of those nuclear materials. With the ever changing international community, the NPT
1469 RevCon should focus on the establishment of a reporting mechanism through the IAEA, such as the
1470 International Emergency Preparedness and Response Framework (EPR) aligned with N-DART, which works
1471 with States Parties to maintain the preparedness to respond to emergencies and the mitigate the effects caused
1472 by this accident. Therefore, the NPT RevCon urges for the establishment of a reporting mechanism on nuclear
1473 incidents within the EPR.
1474

1475 210. The NPT RevCon proposes that N-DART would accomplish its objective by preventing disaster when able by
1476 providing, for example, security for nuclear material convoys during international transport as a new level of
1477 security provisions. N-DART, specializing in immediate nuclear disaster response, should also assist in crisis
1478 aftermath actions, which includes coordinating and consulting medical, environmental, and regional experts to
1479 best assist the local population in returning to their original state and to address individuals who may have been
1480 affected by the residual effects of a nuclear crisis, working with UNDAC and existing IAEA bodies focusing on
1481 incident aftermath reparations in lieu of the previous EPRUs.
1482

1483 211. The NPT RevCon recommends additional protocols, and requests States Parties to consider providing more
1484 funds for Emergency Preparedness and Response Units (EPRU's), to fall under the responsibility of the newly
1485 reexamined N-DARTs, encompassing and enhancing current ERNET Field Teams including: notifying, in a
1486 method to replace the problematic fax system, the UN in addition to regional governments in order to expedite
1487 and facilitate the potential deployment of additional support to the affected region. Also by, participating in
1488 regular multilateral simulations with volunteer States in order to maintain preparedness of personnel, to act as a
1489 confidence building measure between neighboring States Parties willing to participate, to enhance the
1490 legitimacy and scope of the IAEA and the N-DARTs, and to allow States Parties a regulated environment from
1491 which to develop independently, but with the oversight of the IAEA, potential regulations to mitigate possible
1492 crisis scenarios.
1493

- 1494 212. The NPT RevCon calls on States Parties to cooperate with Nuclear Disaster Standard Operating Procedures and
1495 post assessment and coordination, with intentions of streamlining and expediting post disaster action taken by
1496 N-DART Regional Disaster Coordinators. The order of these actions could be decided upon on a case-by-case
1497 basis, determined by threat analysis and the deployment of task forces. Deployment of forces should be
1498 determined by level of threat, location, and threat to nearby populations. The aim of N-DART is to ensure that
1499 adequate levels of trained professionals are at all times available to respond to nuclear disasters, to
1500 establishment command posts and safety zones by PRT, to facilitate the division of disaster area into sections:
1501 High Risk, Medium Risk, Low Risk, and Possible Fallout or Contamination. N-DARTs further aim for the
1502 containment of nuclear materials, as defined by IAEA standards for nuclear containment. Furthermore, the
1503 security of personnel and civilians such as: evacuation, creation of long term safety zones, consistent alert
1504 messaging to inform IAEA and Heads of States of updates from command zone, post crisis assessment,
1505 recommendations, and monitoring by IAEA Transparency.
1506
- 1507 213. The NPT RevCon suggests that N-DART be tasked with handling these issues: nuclear spills, reactor core
1508 breaches, improper use of nuclear facilities creating a potential threat, illegal seizures or attempted seizures of
1509 nuclear facilities by untrained personnel, and unsafe operation.
1510
- 1511 214. The NPT RevCon recommends all states, not just parties to the NPT, create nuclear disaster contingency plans
1512 that work with N-DARTs, UNDAC and other relevant IAEA sub-organs to ensure that jurisdiction and
1513 sovereignty are not infringed upon during N-DART initiatives.
1514
- 1515 215. The NPT RevCon emphasizes that N-DART, as an IAEA sub-organ, should respect all UN Security Council
1516 resolutions and the UN Charter concerning state sovereignty, and further suggests N-DARTs seek to work
1517 cooperatively with local emergency operations, and enhance the safety of the state populations.
1518
- 1519 216. The NPT RevCon strongly encourages other States Parties to adopt technologies which enhance or establish
1520 radiation detection at key border crossings to detect nuclear and radiological radiation coming from vehicles,
1521 pedestrians, and railroad cars in order to prevent the trafficking of uranium across national borders.
1522 Additionally, it recommends increased technical support for an innovative approach to address waterway
1523 transport, and training of the host governments to gain the ability to operate the radioactive detection equipment
1524 in an adequate manner.