



American Model United Nations
International Atomic Energy Agency

IAEA/II/8

SUBJECT OF RESOLUTION: Strengthening the Agency's activities related to nuclear science, technology and applications

SUBMITTED TO: The International Atomic Energy Agency

The International Atomic Energy Agency,

1 *Recognizing* that excessive usage of fresh water, including in the present methods of necessary
2 cooling for infrastructure-sustaining nuclear power plants, can harm ecosystems, disrupt biodiversity,
3 and contribute to long-term environmental degradation,

4 *Acknowledging* that climate change intensifies droughts, water scarcity, and ecosystem vul-
5 nerability, and the social dangers and the gravity that intense droughts cause,

6 *Reaffirming* that improving cooling technology is a necessary step toward responsible and sus-
7 tainable use of nuclear technology,

8 *Understanding* the importance of nuclear energy to the world and in maintaining its usage,

9 1. *Recommends* the establishment of the IAEA Reactor Cooling Innovation Program (RCIP) to
10 help Member States reduce water consumption and thermal pollution on surrounding water sources
11 that results from the usage of nuclear energy, with the goal being to enhance the sharing of knowledge
12 regarding nuclear reactor cooling techniques among participant States;

13 2. *Urges* participant Member States to share non-confidential research on the RCIP's subject
14 matter with other participant Member States;

15 3. *Urges* Member States to further develop the IAEA Water Management Program (WAMP), which
16 emphasizes the evaluation of different reactor cooling approaches for their water consumption by
17 recommending the additions to the program of:

18 (a) The ability to assess present and potential nuclear cooling systems such as with-
19 drawal from natural water sources and cooling towers, for their environmental impacts;

20 (b) The ability to identify less-developed or drought-affected regions experiencing se-
21 vere ecological stress, water scarcity, and temperature-sensitive habitats;

22 4. *Encourages* research collaboration between Member States, IAEA laboratories, European
23 technical and climate institutes, and environmental agencies to create and/or standardize renewable
24 water standards, which may be facilitated by the integration of isotope hydrology techniques with
25 existing environmental agencies monitoring networks to further develop a baseline for groundwater
26 quality;

27 5. *Recommends* follow-up projects in water-stressed regions that currently house nuclear re-
28 actors, with IAEA observation, to test and evaluate techniques developed by RCIP to measure their
29 efficacy;

30 6. *Calls* for funding toward research on alternative approaches to cooling nuclear reactors and
31 requests that the IAEA Board of Directors establish regional Technical Cooperation Fund (TCF) projects
32 as needed to do so with the stipulation that:

33 (a) Funding would mainly come from the TCF with the potential for the IAEA to approach
34 other United Nations agencies and/or the World Bank to request additional funding;

35 7. *Requests* that Member States publish annual reports on their own nuclear-sector water usage
36 and their progress in adopting the RCIP's objectives.

Passed, Yes: 40 / No: 3 / Abstain: 3